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Abstract

The purpose of the Community-Based Research Project is to provide an in-depth, yearlong analysis of an environmental issue with detailed field work and extended site visits. The 2011-2012 Community-Based Research Project class worked with Kearsarge Area Eat Local (KAEL) as a community partner throughout the project. We looked into the current condition of the local food system and the surrounding community which includes fifteen towns in a twelve-mile radius around Mount Kearsarge. The towns are: Andover, Boscawen, Bradford, Danbury, Henniker, Hopkinton, New London, Newbury, Salisbury, Springfield, Sunapee, Sutton, Warner, Webster, and Wilmot. Throughout the year, our team gathered data pertaining to farm locations, distribution points for local food and other outlets such as supermarkets, demographic data, and agricultural trends related to New England. Furthermore, we distributed surveys to evaluate consumer perceptions at various locations among the towns.

Our team identified sixty three farms in the area and gathered data on the types of produce, whether they practice organic methods, number of acres in production, how they sell their produce, and more. The sixty three farms we gathered data on are a good representation of the local area. We also compiled basic demographic data, including population density, income and household size. The demographic data compiled will help us draw conclusions about the region’s potential customers in tandem with the consumer perception survey.

This comprehensive final report includes an in-depth analysis of the consumer perception surveys and SWOT analysis. In addition, we identify stakeholders, analyze data and make recommendations for the Kearsarge Regional Food System including farmers’ markets, networking between farmers, supermarket possibilities, food hub potentials and consumer education and outreach.
Executive Summary

In this study our team studied the Kearsarge Regional Food System encompassing fifteen towns around Mount Kearsarge. We were able to collect information on sixty three farms in the area. We identified, analyzed and made recommendations for stakeholders in the Kearsarge regional food system.

We identified food outlets such as institutions and restaurants. In addition demographic information was collected on consumers in the Kearsarge Area.

We created a SWOT analysis based on information we collected on farms and stakeholders. A consumer survey was also conducted and analyzed.

Based on the information that we analyzed, we made these recommendations:

- Reshaping Farmers’ Markets
- Marketing
- Collaboration with Supermarkets
- Food Hub Facility
- Composting Facility
- Attracting Young Farmers
- Promoting Environmentally Conscious Farming Methods and Marketing
- Consumer Education and Perception
Introduction

The Kearsarge Regional Food System includes fifteen towns located in a twelve mile radius of Mount Kearsarge. This radius was arbitrarily determined by our professors to designate a local area around Mount Kearsarge, which is our area of study for the length of the year. These fifteen towns include Andover, Boscawen, Bradford, Danbury, Henniker, Hopkinton, New London, Newbury, Salisbury, Springfield, Sunapee, Sutton, Warner, Webster, and Wilmot, as shown in Figure 1. As the Community-Based Research Project group at Colby-Sawyer College in the Environmental Studies Department, we are partnered with Kearsarge Area Eat Local (KAEL). KAEL is an organization based in Warner, New Hampshire that is composed of farmers and citizens of the surrounding area. KAEL is dedicated to promoting locally and sustainably grown food and organizing “eat local” events like the Warner Fall Foliage Festival and the Warner Winter Farmers’ Market. The objective of the project is to be able to provide KAEL with recommendations, as well as provide opportunities for farmers to collaborate with each other and connect with their community.
Figure 1: Towns included in the Kearsarge Area

Resources

Each member of our team read *The New Organic Grower* by Eliot Coleman. This text is a manual on how to grow quality organic vegetables using the most sustainable methods. Coleman discusses the basics of farming such as organization of plots, crop rotations and the overall message of feeding the soil, not the plant. In reading this manual, we were able to understand the complexities of planning and operating a farm and the different aspects of managing the land. When we visited farms we were able to identify the concepts that Coleman described. One concept used by Coleman was season extension in the form of hoop houses. These structures are metal pole frames with a thick plastic covering. Farmers use these structures to allow produce to grow in colder temperatures and protect them from the elements.
We also read *The Town That Food Saved* by Ben Hewitt. This text gave us a history of the town of Hardwick, Vermont, including its most recent economic troubles and how they used local businesses and privately owned farms to create a community supported network to unify the local economy. See section titled “Visit to Hardwick Vermont” for more detailed information about the book.

The professors for this project include Leon-C Malan Ph.D., Laura Alexander Ph.D., Amy Ouellette M.S., and Waverly Thorsen Ph.D. Amy Ouellette is an adjunct professor at Colby-Sawyer College and she works for the University of New Hampshire Cooperative Extension for Merrimack County. Our professors lectured on a variety of current agricultural issues throughout the first semester. The topics we discussed are as follows:

- Introduction to farming in the northeast and the unique conditions of farming in New Hampshire and the types of food that are commonly grown
- Global food systems and the environmental impacts of agriculture and worldwide variation in diet
- Soil biology and the chemical composition of soil and essential elements to producing crops
- Local rules and regulations and the agencies that set and enforce them in New Hampshire, zoning regulations, and obstacles that these regulations present to local farmers
- The history of pesticides, their chemical composition, and effects on the environment and human health
- Integrated Pest Management (IPM), its background and how it works.
- The history of the Farm Bill, as well as the components and how much funding it receives
- Biotechnology and genetic engineering of food, its applications, and the reaction against consuming genetically modified foods (GMOs)
- Seed saving, where on a plant seeds are formed, how to harvest seeds, as well as breeding plants with specific traits
• Human health component of food and the effects on diet related diseases, as well as the chemical composition of food, molecular solubility, free radicals, additives, and chemical flavoring
• History of wheat
• Organic vs. non-organic

What is a farm?
Our team agreed that it was necessary to define what a farm is to allow uniform data collection that could be used when exploring the Kearsarge area. The United States Department of Agriculture (USDA) defines a farm as "any operation that sells at least one thousand dollars of agricultural commodities or that would have sold that amount of produce under normal circumstances" (USDA, 2011). For the purpose of this project we excluded hay fields, horse farms and homestead operations. While these farms affect the food system, for the purposes of focusing on larger producers in the area, we did not include these operations in the project. We collected information on farms that were visible in the community and sold their products to the public.

What is local food?
When defining a farm, the food that is produced has a distinction in terms of what is considered local. There is not one fixed definition of local because it is complex and difficult to define. Some definitions of local are provided below:

The New Oxford American Dictionary defines a “locavore” as a “local resident who tries to eat only food grown or produced within a 100-mile radius.

The 2008 Farm Act defines a “locally...produced agricultural food product” as a product that can be transported a total distance of less than 400 miles from its origin or within the state’s boundaries (Steve Martinez, 2007).

Local is defined by the New Hampshire Department of Agriculture, Markets and Food as any product that is produced and distributed within the border of the state (Uncles).
One way to define local is to study a regional area and see if it logically contains a food system.

**What is a food system?**

Throughout class discussions, we developed an idea of how to look at food systems. We learned that a food system has inputs and outputs that comprise it and how food is created and distributed within it. There is no clear definition of a food system because it can entail a variety of unique factors. One definition of a local food system is: “...a complex network of relationships between actors including producers, distributers, retailers and consumers grounded in a particular place” (Dunne, Chambers, Giombolini, & Schlegel, September 2010).

What makes a healthy food system is collaboration between producers, consumers and institutions. For example, producers can rely less on buying fertilizer if nutrients are composted and reused in the system. Also, if the food is purchased by individuals and institutions within the system, the local economy benefits because the money circulates within the system. If this project were to be replicated in the future, researching towns that have the potential to best utilize available resources to create a healthy food system would be ideal. Components that future studies could look for before defining a specific food system would be transportation routes, geographic location, producers, institutions and demographics.

A text that our class used to help understand how to think about systems was *Leverage Points: Places to Intervene in a System* by Donella Meadows. Meadows discusses how to think of the “state of the system,” which is described as “whatever standing stock is of importance: amount of water behind the dam, amount of harvestable wood in the forest, number of people in the population, amount of money in the bank” (Meadows, 1999). In this case, food produced in the Kearsarge area is the standing stock. Inflows are what goes into the system and how it affects the “state of the system.” The outflows are what leave the system. As a class, we used this article to discuss what inflows and outflows are in a food system and how they affect the “state of the system.” For example, an inflow into the
system is fertilizer and an outflow is food that is produced and distributed. A model that displays inflow and outflows effectively is the Greater Hardwick Food System.

**Visit to Hardwick, Vermont**

In *The Town That Food Saved*, author Ben Hewitt explores the area around Hardwick, Vermont. He begins by talking about how the town was fueled by the granite industry and then went into a period of decline, as a result the regional economy suffered. Throughout the rest of the book he discussed a reemergence in the local economy through meeting “agripreneurs.” The focus of these agricultural entrepreneurs is to revitalize the local economy by producing sustainable local food in an attempt to decrease the reliance on industrial food. He also explored how these high-end food products benefit the working class around Hardwick.

After learning about this town and its agricultural community, we wanted to see how their food system works and to visit organizations that were discussed in this book.

The Center for an Agricultural Economy (CAE) is a small non-profit organization that began in 2004. Their mission statement is “to bring together community resources and programs needed to develop a locally-based food system that supports the desire of rural communities to rebuild their economic and ecological health” (About The Center for an Agricultural Economy). It provides information to farmers and local businesses, while at the same time hosting bimonthly meetings where the community can come together and discuss what is working and what needs to change. The CAE also functions as a source for loans for farmers who may not have the capital to invest in new equipment or to repair what they already have.
In the Hardwick food system there is collaboration between the farmers and operations necessary for local agriculture production. Andrew Meyer and Todd Pinkham started Vermont Soy in 2007, which is now a small-scale production facility of GMO-free raw material. Their product line includes soy milk, tofu and cooking oils. They also share production space with Vermont Natural Coatings and serve as a distribution site for produce from a local farmer.

Highfields Center for Composting is a non-profit organization that educates farmers about composting and runs food waste recycling programs with a focus on action-based environmental education. During our visit, we met with the director, Tom Gilbert, and also witnessed the composting operation. Tom explained how composting is beneficial to a food system because it allows nutrients to remain in a system and be recycled. This enables farmers to use what the system creates, such as compost, rather than bring in synthetic or natural fertilizers that increase their environmental impact.

Pete’s Greens of Craftsbury Village Farm is a large vegetable growing operation. Recently, a fire destroyed their storage and processing barn, which halted the operation. They received overwhelming support from the community and have recently built a large processing facility, which includes large storage units, produce sorting area and a kitchen. Pete Johnson, the founder, uses season extension methods, such as hoop houses, as well as the other aspects of running a vegetable growing operation in northern New England.

Down the road from Pete’s Greens is Sterling College in the heart of Craftsbury, Vermont. This four-year college is one of only seven Work-Learn-Service colleges in the country. Sterling College has their own working farm on which they grow vegetables and raise animals. They use their produce in their dining hall where students prepare locally-produced meals. Their education is a combination of traditional classroom lectures, as well as applied knowledge on a farm setting.

After reading *The Town That Food Saved*, along with our visit to the town of Hardwick, we started to think critically about the components of a food system and the aspects that comprise it:
Figure 2 depicts the different components that comprise the greater Hardwick Food System. This food system is circular and continuous, meaning it doesn’t necessarily have a beginning or end. In this example, compost will serve as the beginning, as well as the end. This is easily seen if we look at compost as a component of the system. Compost is created from food waste and breaks down to become soil. This process occurs at places such as Highfields Center for Composting. The soil that is created at the composting center is the nutrient-rich base for the seeds. The soil is then used by seed growers. These seeds are grown at High Mowing Organic Seeds, and then sold to farmers. Then Pete Johnson of Pete’s Greens at Craftsbury Village Farm plants the seeds to grow crops. They then transport those crops to Vermont Soy or the Vermont Food Venture Center, a commercial processing kitchen, to be processed and stored. The produce is delivered through Black River Produce, a small-scale trucking company that transports goods throughout New England, where they will then be distributed by various outlets. The food is distributed to consumers via the Buffalo Mountain Coop, a small grocery store in the heart of downtown Hardwick, as well as through CSAs, farm stands and schools. That food is brought to the tables of families, institutions like Sterling College, inns and restaurants where the excess becomes waste that is given back to composting facilities, like Highfields Center for Composting, and returned to the system as soil.

Systems are comprised of inflows and outflows. The inflows that remain in the system include the compost, soil and seeds. The outflows that remain in the system include processing and storage, distribution and consumer. For example, an outflow of the food system that ultimately remains in the system and becomes an inflow is compost. Nutrients are recycled within the system and there is less reliance on nutrients coming from outside.
Seeds grown at High Mowing are an example of an inflow that remains in the system. There is also collaboration between High Mowing and Highfields Composting because they provide compost that is used to grow the seeds in. The food that is produced in the system goes to institutions, inns, restaurants and families, where the waste is brought back for composting. There are inflows and outflows of the system that come from outside the Hardwick region. Seeds are one example because not all seeds can be grown in Vermont. Compost also cannot provide all the nutrients needed for the soil to produce crops. Pete’s Greens Good Eats CSA provides food that leaves the system and goes to cities such as Burlington, where there is more demand for the food. Thus, not all the food produced in the system stays in the system because not everyone in the greater Hardwick area can afford it (Hewitt, 2009). Vermont Soy for example, produces soy products that are sold to other institutions outside the system such as Colby-Sawyer College. The Hardwick system is a relatively independent system because, for the most part, the inflows and outflows come from, and remain within their regional system.
The Greater Hardwick Food System does not rely solely on outside sources, but rather on collaboration to create goods and services that are contained within the system. A healthy food system relies less on external inputs, but utilizes the surrounding community as much as possible by spending money on local businesses and producers.

This visit and learning experience created background knowledge for our team to use when studying the Kearsarge Regional Food System. Looking at a system like Hardwick gave our project team ideas about what comprises a healthier and self-sufficient food system.
Kearsarge Regional Food System

Using the Hardwick system as a model, we created a map of the Kearsarge Regional Food System (Figure 3). The model is described as linear because there are more inputs that come from outside of the system, and more outflows that go out of the system. In order to provide context for the region, we looked at trends on a statewide level related to aspects of a food system.

We collected information pertaining to farm data, demographic information, food outlets, transportation routes, government regulations and consumer perception. To understand the producers in the Kearsarge system we gathered information about inputs and outputs of farms and different farming practices. Our team visited ten farms that represent a variety of different farming models: dairy, meat, vegetable and orchard production. For a broader look at the current state of the agricultural system, we researched various trends related to agriculture and the Kearsarge food system. We also collected information on retail outlets, such as CSAs, restaurants, farmers’ markets, farm stands, schools and a hospital. To better understand the consumer aspect of a food system, we did research on the demographics of the population in the Kearsarge region. Looking at Figure 3, we move through the diagram from left to right starting with farm inputs.
Creating and maintaining a farm costs money and requires land. Once the land is purchased, equipment must be used to prepare fields for planting seeds, which need to be purchased as well. It requires labor to maintain those growing seeds, as well as compost and soil amendments to keep the soil healthy. Most of the farm equipment needs energy to run, in the form of fuel. State and government regulations dictate organics certification, marketing and health inspections. New Hampshire Farm Expenses in 2007 illustrates the farm expenses per type of expense in Figure 4. Hired farm labor is the most expensive farm input while feed is the second most. Seeds, plants, vines and trees are the third most expensive farm input. Fertilizer, lime and soil conditioners are the least expensive farm inputs. This chart breaks down the inputs in terms of expenses that go into farms in New Hampshire.
Farm Labor

Labor was the largest farm expense in New Hampshire in 2007. There were 81,000 people employed in the food system in New Hampshire. Out of this total 8,987 were employed in agriculture. When comparing the percentage of people employed in agriculture in New Hampshire to Vermont, we found that Vermont has 5.8% employed compared to 1.7% in New Hampshire. It is clear that more people are employed in agriculture in Vermont (Carter & Gittell, 2010). We chose to compare this trend to Vermont because we studied the Greater Hardwick Food System and Vermont is in the same regional area as New Hampshire.

Within New Hampshire the average annual wage of persons employed in agriculture is $6,220 compared to $14,029 of the United States. This suggests that workers in New Hampshire are being paid considerably less than other agricultural workers in the nation, which may be due to small-scale farming. In New Hampshire 44% of all farm employees are
the owners of the farms themselves, and earn on average 35% of the total earnings of the farm they own (Carter & Gittell, 2010).

Overall, we can infer that New Hampshire’s local agriculture is small because only 1.7% of all employment is generated by it, but still plays a part in employment within the state (Carter & Gittell, 2010).

**Government Influences**

Government regulations on a state and federal level are another input that influences the food system. In New Hampshire, the organization that regulates the statewide agricultural industry is the New Hampshire Department of Agriculture, Markets and Food. They regulate animal health, farmland preservation, fertilizer and pesticide use and food products. In addition to regulating agriculture, the USDA has certification programs, one of which is the National Organic Program (NOP). This program allows farms to become USDA Certified Organic. The USDA has another program called Good Agricultural Practices (GAP). This program ensures that a farm adheres to certain farming practices as outlined by this process. In order to be GAP certified, a farm must undergo an audit process to ensure that they are following standards by this outline. This entails that livestock are not near crops to guarantee maximum sanitation. Many distribution outlets, such as Sodexo Dining Services, mandate that a farm is GAP certified before purchasing the product because this ensures a standard of quality. The NOP and GAP certification are both time consuming, through paperwork, training and planning, and expensive, through audits, posing a barrier to small-scale agriculture (Good Agricultural Practices, 2010). Government regulation is an input with important consequences that affects the entire Kearsarge food system, as well as the small farms that comprise it.

The government subsidizes agricultural activities with a piece of legislation called the Farm Bill, which is signed every five to seven years. This piece of legislation influences what happens on millions of acres of private property in our country. It can influence what sort of food Americans will eat and the cost, and in turn, can influence the health of our country (Imhoff, Food Fight: The Citizens Guide to a Food and Farm Bill, 2006).
The Farm Bill determines where government funding will be distributed and in what amounts. Figure 5 shows the distribution of funds for the 2008 Farm Bill (The 2008 Farm Bill: A New Direction in Farm Policy, 2012). Our current Farm Bill appropriates 67% of its funds to nutrition. This money is used primarily for food stamps and other emergency food programs. Commodity crop subsidies for rice, cotton, corn, soybeans, wheat and other crops command 14% of the bill. Conservation programs to protect wetlands, farmland and other sensitive lands receive 9% of the funding. Crop insurance and other smaller areas round out the last 10% (The 2008 Farm Bill: A New Direction in Farm Policy, 2012).

The funding for commodity crops influenced a change in our country’s food system in the 1970’s. The system was designed to protect farmers against fluctuating produce prices for corn and other commodity crops. Government subsidies pay the farmers the difference if the price were to drop. This causes farmers to increase their productivity (Imhoff, Food Fight: The Citizens Guide to a Food and Farm Bill, 2006).

While this system changed the way farmers in the western part of our country grew food, smaller farms in the east remained relatively unaffected, as commodity crops are not grown in large numbers in the east. There are several farms in the Kearsarge area that have benefited from the Farm Bill’s conservation program. In 2010, 4.5 billion dollars was spent on conservation in the United States. Under this program, our farmers were able to place land under conservation easement to protect and preserve the farmland for future generations. This helps farmers limit the cost of taxes on their property and protect their land by limiting nonagricultural use. Several of the farmers in the area have also been able to apply and receive grant funding by the Natural Resources Conservation Service for high tunnel greenhouses (Duncan M., 2007) (USDA NRCS Conservation Easement Programs, 2012). At several farms that we visited, such as Two Mountain Farm, Work Song Farm and
Vegetable Ranch, we were able to see high tunnel greenhouses that were paid for through the program. While these programs are beneficial to local farmers we have also found that there are regulations that are limiting. For example, livestock must be processed at a USDA approved slaughterhouse in order to legally sell the meat in a public place, and there are no USDA-approved slaughterhouses in the local region.

The Farm Bill is due for renewal in 2012 and there are several changes that may positively affect the Kearsarge area. The largest impact that may be felt is the addition of the Supplemental Nutrition Assistance Program (SNAP) program. Under this program, recipients of government food stamps will have the ability to purchase food at local farmers’ markets. Since most of the farmers in this area make a large percentage of their revenue from direct sales, this program could increase the amount of money they receive from government funding.

**Farm Production**

We collected data for sixty three farms (see Appendix A), as shown in Figure 6. We are aware that we did not gather information on all of the producers, but represented the majority that comprise the food system.
After identifying the farms, we collected information on components such as acreage. Figure 7 shows the number of acres in production in the Kearsarge area. The total acres are 1,907.7, and the majority of the acreage falls in Warner, Webster, Boscawen and Hopkinton. In order to calculate the acreage, we used information provided by the farmers or estimated the area using Google Earth. Our calculation is for fifty nine out of the sixty three farms we identified because we could not get in contact with four of the farmers or identify the area on Google Earth.
More specifically, these acres are used for four different areas of production: vegetable, orchard, dairy and meat. To highlight some of the farms we visited and the information we collected, the following section provides an example of a farm in each of the four farm categories in the Kearsarge region.

**Vegetable**

Vegetable production is an important aspect of a food system. In New Hampshire, about 5,000 acres of land planted with vegetables is harvested by over 300 growers. This results in an 18 million dollar value in the vegetable production industry in New Hampshire alone (UNH Cooperative Extension).
More specifically, in the Kearsarge area, Figure 8 shows the number of acres in vegetable production by town totaling 450 acres. The highest areas of vegetable production are Boscawen and Warner, followed by Hopkinton and New London.

Figure 8: Number of Acres in Vegetable Production

Kat Darling operates Two Mountain Farm in Andover, New Hampshire, a ten-acre, predominantly vegetable farm that has been in production for six seasons. The whole property is fifty five acres and is protected under a conservation easement. She raises chickens for egg production and grows a variety of crops such as leafy greens, root vegetables, berries, and summer produce. Though not certified organic, Kat utilizes organic practices such as IPM and purchases organic seeds from Johnny’s Selected Seeds and High
Mowing Seeds. She distributes produce through a thirty-member CSA and sells her products at the Andover and Concord Farmers’ Markets.

**Orchard**

In the Kearsarge area, there are 116.5 acres in fruit production. The majority of fruit production falls in Boscawen, followed by Hopkinton and Henniker (Figure 9).
Gould Hill Farm in Hopkinton, New Hampshire is an example of an orchard operation. Tim and Amy Bassett cultivate twenty acres with eighty-five apple varieties, one and half acres of fifteen peach varieties, a half-acre of blueberries, one acre of pumpkins, plums, nectarines, summer squash, zucchini and herbs. These crops and other local products, such as cheeses, baked goods, honey, maple syrup, clothing and gifts, are sold at the store on site. Apples are wholesaled to Carter Hill Orchard for cider production. Gould Hill is not organically certified because it is difficult to produce organic apples when consumer demand is for blemish-free, aesthetically appealing apples, but they do practice IPM methods.

**Figure 9:** Number of Acres in Fruit Production
On a statewide level, New Hampshire is ranked twenty-second in the United States in apple production by volume. Figure 10 displays the apple production in New Hampshire which has been in decline since the 1970s. The yearly fluctuations can be explained by harsh weather conditions, such as late frost during the spring and early summer, which create conditions that make it difficult to control diseases and fungi. An example when this occurred is between the years of 1997 and 1999 (Nielsen, 2011). We learned on our visit to Gould Hill Orchard that New England has lost much of the apple industry to New York, at the national level, and China, at the international level. This could affect the amount of income for the state economy and the number of jobs in New Hampshire’s apple industry provides.
Figure 10: Apple Production in New Hampshire from 1910 to 2010
(Service, 2011)

Dairy
There are 692 acres under dairy production in the Kearsarge area. The majority of the acres fall in Hopkinton, followed by Boscawen and Henniker (Figure 11).
Contoocook Creamery at Bohanan Farm in Contoocook, New Hampshire is an example of a dairy operation. The property has been used for agriculture since 1907. Heather and Jamie Robertson are the current owners of the 417 acres, the majority of which are in a conservation easement. They grow hay on 125 acres and corn on 175 acres to supplement the feed for their 200 cows. They provide different varieties of bottled milk, such as skim, whole, one percent, eggnog, blueberry, strawberry, coffee, maple and chocolate. Previously, Contoocook Creamery sent their milk to a wholesaler, but since November 2010 they have been sending their milk to a bottling facility in Maine. Their bottled milk is then sent back to them and sold in local grocery stores and markets, presenting a costly challenge for transportation.
Bohanan Farm is a dairy operation that has not succumbed to the decline of dairy farms both state and nationwide. From 1970 to 2006, in the United States, the number of dairy farms decreased from 648,000 to 75,000 (88%). Average herd size increased from nineteen cows to 120, but milk production per cow doubled during the same time. As a result, total milk production increased, thus average milk production per farm increased twelvefold (Economic Research Service of the United States Department of Agriculture). Figure 12 displays a decrease in the number of dairy farms with an increase in the number of cows per farm, as well as milk production. The decrease in farms and the increase in number of cows and milk production is evidence that dairy farms have moved away from small, family-owned and operated farms and towards larger concentrated dairy operations to produce maximum yield. This trend forced smaller dairy farms out of business when they could not compete with larger farms.
Figure 12: National Dairy Farm Decline

Figure 13 displays the decline in dairy farms in New Hampshire between 1970 and 2010. New Hampshire has lost 699 dairy farms (84%) since 1970. The New Hampshire dairy industry produces a total of more than 141 million dollars in income and 3,717 jobs, with more than 19 million dollars in labor expense. Between 1970 and 1975, New Hampshire lost a total of 211 farms alone (New Hampshire Dairy Industry). This decrease can be linked to several events, including widespread inflation and oil embargos, as well as the fact that farmland was being rapidly developed in New England (Lougee, 2009). The other significant decrease occurs between 1985 and 1990, with a loss of 177 farms. This decrease can be linked to financial stress on dairy farmers that occurred in 1985. Dairy farmers experience the second most financial difficulty in agricultural production because they have to compete in the commodity market (Wadsworth & Bravo-Ureta, 1992). The decrease in the number of dairy farms in New Hampshire follows a similar pattern to the national decrease because smaller, family-owned dairy farms are moving towards larger dairy operations for increased yield. If the decline in dairy farms continues, this will affect
the number of people who are employed and would impact the amount of revenue the state receives from this industry.

**Figure 13:** Decline in New Hampshire Dairy Farms
(State of NH-DHHS)

### Meat

Meat production acreage totals 596 in the Kearsarge area. The majority of the acreage falls in Webster, followed by Sutton and Springfield (Figure 14).
Yankee Farmer’s Market is an example of a meat operation. The farm opened in Warner, New Hampshire in 1999. The farm is operated by Brian and Keira Farmer, who raise thirty head of bison on twenty acres at their Warner location. Other locations include 300 acres in Hillsborough and 1,000 acres in New Boston, both overseen by family members. The meat is all-natural, hormone-free, antibiotic-free and pasture-raised at the Warner location. It is sold in their store along with a variety of other meats, such as beef, venison, elk, ostrich, pork, turkey, lamb and chicken, which are all raised on other local farms. They also sell Contoocook Creamery milk, local syrups, salsas, meat rubs and sauces. In addition to the farm store, their meat is wholesaled to restaurants, grocery stores, meat markets and co-ops throughout the northeast. Live bison are available for sale to farms for the purpose of meat production.
Processing

Once food is ready for consumption, whether it is produce or meat, it must be properly processed. Meat producers in the Kearsarge system, such as Yankee Farmers’ Market, send their meat to a USDA inspected slaughterhouse. Dairy producers, such as Contoocook Creamery, have to ship their milk to bottling facilities, in this case to the state Maine. Eggs have to be sent to packaging facilities, except when on a smaller scale, such as Two Mountain Farm, where eggs are collected, cleaned and packaged by hand. Vegetables and fruit, depending on scale of production, have to be sent to packaging or canning facilities. At Gould Hill Farm, all of their apples are processed by hand and packaged on site. On a smaller scale, some of these farms do the processing themselves, such as packaging eggs, washing and packaging vegetables and fruit, slaughtering and butchering meat, or having a local slaughterer and butcher come to the farm to process the meat. However, these small-scale, self-processing farmers tend to run into many government regulations when they attempt to sell their products to the consumer. For example, raw meat must be stored at a certain temperature to be authorized for sale to consumers. These finished, processed products then either go back to the farm, as an input, to be distributed directly, or are distributed to food distribution sites around the area. We address the issue of processing in the Kearsarge area in the Recommendations section titled ‘Food Hub Facility.’
Food Distribution

After food is processed it is ready for distribution to the customer. Food can be distributed from several venues including supermarkets, convenience stores and other institutions. These venues obtain food from outside the local system that cannot be produced within the system or are in high demand by consumers. Food can also be distributed through direct sales, such as farmers’ markets, farm stands and CSAs.

Direct Sales

Direct sales refer to products that are sold directly to consumers through CSAs, farm stands and farmers’ markets, where farms have a direct income from the consumer and bypass the retail channel. In the Kearsarge Regional Food System, there is food that does not necessarily go to a food distributor, such as supermarkets, co-ops or restaurants.

Figure 15 displays the percentage of farms in New Hampshire with direct sales to consumers. In both 2002 and 2007, New Hampshire had the highest percentage of farms with direct sales to consumers and an increase of 25% in those sales between those years. In 2007, New Hampshire led the nation in percentage of farms with direct sales, with 23.6%; Connecticut was second, followed by Massachusetts, Vermont, Maine, and Rhode Island. The fact that Vermont falls fourth in this order can be attributed to the fact that it has many dairy operations that wholesale through cooperatives, which would not be classified as direct sales. The reason why New England farms have a relatively high percentage of farms with direct sales is because New England agriculture is less like other states that focus on growing commodity crops for processed products, which would be considered indirect sales. New Hampshire’s topography is not designed to grow commodity crops at a competitive level. There is more of a connection between farm and consumer in New England because a large share of the commodity market is not represented in the area.
Figure 15: Percentage of Farms with Direct Sales New England States and U.S.
(NASS Presentation on Trends in New England Agriculture)
Interstate 89 runs right through the Kearsarge area. This is an important piece of infrastructure in terms of food distribution. Figure 16 displays the major interstates and routes in the region. The location of food distribution centers is very important to determine where the most accessible place to purchase food is. If a supermarket is located right off an exit, such as Market Basket in Warner, it is more accessible to consumers. Similarly, if a farmer’s market is near the interstate it will be easier for farmers to get their goods to market and for customers to get to the markets. In our customer perception survey, which will be talked about later in the report, accessibility is one of the major barriers to buying local food. Figure 17 shows the location of farmers’ markets relative to I-89. The farmers’ markets in the Kearsarge area are: Warner, Contoocook, Henniker, New London, Andover, Wilmot, Newbury and Bradford. The data collected at the farmers’
markets consisted of the total number of vendors, types of food vendors sold, total amount of products vendors sell, what towns the vendors are from and how much consumer traffic each farmers’ market receives. These markets and the information gathered are displayed in Figure 18. This is important to note because the largest farmers’ markets, as indicated by traffic size, shown in Figure 18, are located within five miles of the exits in New London, Warner, and Hopkinton. According to Figure 17, the other farmers’ markets are located farther from I-89; have less vendor participation, and fewer people attending them. This suggests that if more farmers’ markets or farm stands where local food is being sold are located closer to major highways then they could receive more business.

Figure 17: Farmers’ Markets in the Kearsarge Area
<table>
<thead>
<tr>
<th>Location</th>
<th>Name</th>
<th>Vendors</th>
<th>Traffic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andover</td>
<td>Andover Farmers’ Market</td>
<td>2 total</td>
<td>100 average</td>
</tr>
<tr>
<td>Contoocook</td>
<td>Contoocook Farmers’ Market</td>
<td>13 food-based</td>
<td>250 average</td>
</tr>
<tr>
<td>Henniker</td>
<td>Henniker Farmers’ Market</td>
<td>5 total</td>
<td>70 average</td>
</tr>
<tr>
<td>Newbury</td>
<td>Newbury Farmers’ and Artisans’ Market</td>
<td>8-10 total</td>
<td>100 average</td>
</tr>
<tr>
<td>New London</td>
<td>Market on the Green</td>
<td>26 total</td>
<td>300 average</td>
</tr>
<tr>
<td>Warner</td>
<td>Warner Farmers’ Market</td>
<td>8-10 total</td>
<td>100-200 average</td>
</tr>
<tr>
<td>Wilmot</td>
<td>Wilmot Farmers’ Market</td>
<td>13 total</td>
<td>200 average</td>
</tr>
</tbody>
</table>

**Figure 18:** Farmers’ Markets in the Kearsarge Area

Farm stands and CSAs are two other forms of direct sales in the Kearsarge system. There are twenty four farms that have farm stands where fresh produce and other farm goods are available in season, usually on-site or just down the road from the farm. These farms are displayed in Figure 19.
Table 1: Farms in the Kearsarge Area with a Farm Stand

<table>
<thead>
<tr>
<th>Beaver Meadow Brook</th>
<th>Musterfield Farm</th>
<th>Star Lake Farm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakwind Farm</td>
<td>North of Concord Farm</td>
<td>Tucker Mountain Maple Coop</td>
</tr>
<tr>
<td>Courser Farm</td>
<td>Owen Farm</td>
<td>Two Mountain Farm</td>
</tr>
<tr>
<td>Crimson Maple Farm</td>
<td>Pustizzi Fruit</td>
<td>Up Sheeps’ Creek Farm</td>
</tr>
<tr>
<td>Dancin’ Apple Farm</td>
<td>Ragged View Farm</td>
<td>Vegetable Ranch</td>
</tr>
<tr>
<td>Gould Hill Farm</td>
<td>Richardson Farm</td>
<td>Webster Ridge Farm</td>
</tr>
<tr>
<td>Hazzard Acres Farm</td>
<td>Riverfare Farm</td>
<td>Work Song Farm</td>
</tr>
<tr>
<td>Highland Lake Apple Farm</td>
<td>Springledge Farm</td>
<td>Yankee Farmers’ Market</td>
</tr>
</tbody>
</table>

**Figure 19:** Farms with a Farm Stand in the Kearsarge Area

CSAs are shares of produce that are paid in full by the customer prior to production. This allows the local producers money upfront to purchase seeds, fertilizers and other farm inputs. In most situations, CSA members can choose a whole- or half-share depending on the number of people in their family. Some CSAs allow members to volunteer at the farms to help with production in exchange for a reduction in price; this is called a working share.

A difficulty associated with CSA’s is that subscribers have to pick up their weekly share in a place that may not be convenient for the subscriber. One of the major barriers that respondents answered in the consumer perceptions survey when purchasing local food is location (see Survey Analysis section for more details). Our consumer perceptions survey shows that 87% of respondents buy some or the majority of their food from supermarkets. Colby-Sawyer College might be an ideal location for a CSA pick-up point, because it is located close to Hannaford’s and might be more convenient for consumers when shopping for food. Our team realized this as an opportunity and researched this possibility with the College administration. The administration approved the idea of a CSA pick-up point at Colby-Sawyer College to take place in the commuter parking lot during the summer. Refer to the section in the Recommendations titled Marketing for more details.

Farms can get certifications that describe the farming practices they use. Two of the certifications available to farmers are certified organic and certified natural. According to
the USDA, “Organic is a labeling term that indicates that the food or other agricultural product has been produced through approved methods that integrate cultural, biological, and mechanical practices that foster cycling of resources, promote ecological balance, and conserve biodiversity. Synthetic fertilizers, sewage sludge, irradiation, and genetic engineering may not be used” (USDA, 2011). Certified Naturally Grown, a non-profit organization, created a label to identify products as Certified Natural that “don’t use any synthetic herbicides, pesticides, fertilizers, antibiotics, hormones, or genetically modified organisms...Livestock are raised mostly on pasture and with space for freedom of movement. Feed must be grown without synthetic inputs or genetically modified seeds” (Certified Naturally Grown, 2012).

Some farmers are not certified, but do practice organic methods. These certifications and practices can be attractive to consumers because of the increased social movement towards organic and natural foods. Out of sixty farms that we gathered data on, six farms are certified organic. Refer to Carrot Survey Analysis section for more information regarding consumer preference for local and organic food.

**Retail**

To gain experience collecting data about food outlets, we volunteered to work with the Upper Valley Lake Sunapee Regional Planning Commission (UVLSRPC), an organization that requested our help conducting a national food availability survey. Working with this organization gave our team experience with collecting useful information about food outlets. We went on to collect data about the prices and accessibility of local, organic and conventional products in retail outlets in the Kearsarge area: Colonial Village Pharmacy in Contoocook, Hannaford’s in New London, Harvester Market in Henniker, Kearsarge Co-op in New London and Market Basket in Warner. These retail outlets offer a variety of food that comes from mostly outside the food system. Our team collected price and availability information for milk, ground beef, squash, potatoes, tomatoes, onions, lettuce and apples at these locations. Milk was the only product where local, organic and conventional were available. The average price per half gallon of local milk from Contoocook Creamery is $2.98, organic is $3.87 and conventional is $2.08. This shows that, even though local milk is
available and less expensive than organic milk, conventional milk is the cheapest of the three choices. From the produce information, we found that local food is not readily available in retail outlets. In order to understand why local food is not readily available in supermarkets we visited the two largest in the region, Hannaford’s and Market Basket.

Market Basket, a small to midsized grocery store, has sixty five stores in the United States. The company is worth about four billion dollars. Approximately 30,000 new items are introduced every year, most of which are only produced by several large food processors. Tom O’Loughlin, the manager at the Market Basket in Warner, gave us a tour of the store. The managerial position at Market Basket includes overseeing the store’s employees, making sure they receive the amount of food they order on a weekly basis and that the product is in good condition. However, the manager cannot make sourcing decisions. One of the largest barriers Mr. O’Loughlin pointed out when asked about sourcing food locally is that small farmers simply cannot supply the store with enough produce fast enough. (O’Loughlin, 2012).

Hannaford’s is mostly concentrated on the east coast, from Florida to Maine, and is similarly sized to Market Basket. Hannaford’s is a part of a larger grocery industry with stores like Piggly Wiggly and Food Lion, located in other parts of the country. The store manager of Hannaford’s in New London, Nate Kenyon, explained that most of the limitations he faces have to do with the fact that (much like at Market Basket) he answers to the corporate branch of Hannaford’s and does not have a lot of control over what products the store receives. In contrast to Market Basket, Mr. Kenyon does have some control over the sourcing of his stores’ produce and is able to source some of his products from local farmers and producers through Hannaford’s “Close-to-Home” initiative. It was created in the interest of the consumers’ awareness of where the food is coming from. The “Close-to-Home” program works with producers close to New London’s Hannaford’s to obtain some of their produce. Currently, Mr. Kenyon’s branch is working with farms in Springfield, Claremont and Lebanon, for their produce (Kenyon, 2012). We developed a recommendation based on producers in the Kearsarge area collaborating with the supermarkets.
**Restaurants**

Restaurants are also an outlet for food in the Kearsarge system. We collected information about restaurants that includes location and if they served local food. These restaurants offer a variety of food that is mostly brought in from outside the local food system, though we found a few restaurants that use as much local food as possible because they serve food on a smaller scale than the supermarkets. Data was gathered by conversing with the managers on the phone. The restaurants that currently serve local food in the Kearsarge area are displayed in Figure 20.

<table>
<thead>
<tr>
<th>Restaurants Serving Local Food in Kearsarge Area</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alan’s of Boscawen Restaurant &amp; Lounge</td>
<td>Boscawen</td>
</tr>
<tr>
<td>Henniker Bed &amp; Breakfast</td>
<td>Henniker</td>
</tr>
<tr>
<td>Colby Hill Inn</td>
<td>Henniker</td>
</tr>
<tr>
<td>St. George’s Café</td>
<td>Henniker</td>
</tr>
<tr>
<td>Mary’s Bakery &amp; Café</td>
<td>Henniker</td>
</tr>
<tr>
<td>Daniel’s Restaurant &amp; Pub</td>
<td>Henniker</td>
</tr>
<tr>
<td>Henniker Junction Restaurant</td>
<td>Henniker</td>
</tr>
<tr>
<td>The Everyday Café</td>
<td>Hopkinton</td>
</tr>
<tr>
<td>Cathy’s Kitchen</td>
<td>Hopkinton</td>
</tr>
<tr>
<td>The Flying Goose</td>
<td>New London</td>
</tr>
<tr>
<td>Ellie’s Café &amp; Deli</td>
<td>New London</td>
</tr>
<tr>
<td>Rockwell’s at the New London Inn</td>
<td>New London</td>
</tr>
<tr>
<td>Hole in the Fence Café</td>
<td>New London</td>
</tr>
</tbody>
</table>

**Figure 20:** Restaurants Serving Local Food in the Kearsarge Area
Institutions

Schools, hospitals, jails and nursing homes play a large role in the food system as well. In the Kearsarge area there are several schools, one hospital, a nursing home and a jail. These institutions offer a variety of food that is obtained mostly from outside the food system. We identified institutions as any organization that serves meals to a population every day. This information is important because they impact the inflows and outflows in the system and represent opportunities for local farmers to distribute their products. Figure 21 shows the institutions in the Kearsarge area.

Figure 21: Institutions in the Kearsarge Area
Colby-Sawyer College Dining Services Petition

Our team realized that institutions play an important role in local food systems. We created a petition to create a policy where the Colby-Sawyer College Dining Hall would be mandated to provide students with a higher percentage of local food. Underclassman Garrett Dunnells came up with the idea of distributing a petition to students asking to increase the percentage of local food in the dining hall. We collaborated with Garrett and the Sustainability Core club on campus to get signatures. The petition mandates that 20% of the food served by dining services be produced within 100 miles of Colby-Sawyer College (see Appendix D) by the fall semester of 2013. The petition was signed by 726 out of approximately 1,200 students, or 61% of the student body. We met with President Tom Galligan and presented the petition to him. He was supportive of this initiative on campus and asked us to present the petition and proposed policy to the Senior Staff. Currently the proposed policy is under review, but we are confident that a policy will be in place soon that increases the percentage of local food served at the College.
Consumer

The final aspect of the Kearsarge food system is the consumer. During the first part of the project, we researched demographic data for the Kearsarge area. Studying the demographic information of the area is important to our understanding of the entire food system.

The total population of the Kearsarge regional area in 2009 was 39,691 people; this represents 3.0% of the total population of New Hampshire. The median age in the region is 43.4 years old. Figure 22 shows the population distribution in the Kearsarge area. Five to nineteen year olds comprise 24.2% of the population and thirty five to fifty four year olds make up 28.9% of the population. These two age groups make up the majority of the population distribution, which suggest that the area may contain a lot of families (New Hampshire Community Profiles, 2010).

![Population Distribution in Kearsarge Area](attachment:figure22.png)

**Figure 22:** Population Distribution in the Kearsarge Area

(New Hampshire Community Profiles, 2010)
Figure 23 indicates the average median household income for the Kearsarge local area, New Hampshire and the nation. The average median household income for the Kearsarge area is $65,101 (New Hampshire Community Profiles, 2010). For the state of New Hampshire it is $60,734. The national average median household income is $50,221 (U.S. Census Bureau, 2011). These statistics show that the Kearsarge local area has a higher average median household income than both the state of New Hampshire and the rest of the country. This means that the people in the Kearsarge area have the means to spend money on local products, which would help support the local economy.

**Figure 23:** Median Household Income Comparing the Kearsarge Area, New Hampshire and the United States

(New Hampshire Community Profiles, 2010)  
(U.S. Census Bureau, 2011)
Figure 24 shows the average percentage of people below the poverty line in the Kearsarge area, New Hampshire and the nation. The average percentage of people below the poverty line for the Kearsarge area is 4.16% (New Hampshire Community Profiles, 2010). In the state of New Hampshire it is 8.6%. The rest of the nation is at 14.3% (U.S. Census Bureau, 2011). These statistics indicate that the average persons below the poverty line in the Kearsarge area are lower than both the state and the nation.

![Bar Chart]

**Figure 24**: Percentage of People Below the Poverty Line Comparing the Kearsarge Area, New Hampshire and the United States

(New Hampshire Community Profiles, 2010)

(U.S. Census Bureau, 2011)
Surveys – Taste Test and Consumer Perceptions

An important aspect of the food system is consumer perceptions of local food. The Warner Winter Farmer’s Market on December 10, 2011 presented an opportunity to conduct research on consumer perceptions with a taste test featuring local organic vs. conventional (store-bought) carrots. This was one of two research projects we undertook in order to understand consumer perceptions of local food and consumer food purchasing habits.

The carrot taste test and survey focused on attributes of food that are important to the consumer, along with questions (Appendix B1) that asked about where respondents purchased the majority of their food. The local organic carrots were provided by Larry Pletcher of Vegetable Ranch in Warner and the conventional store-bought carrots were purchased from Market Basket in Warner.

Procedures were as follows:

- Peel and slice carrots into quarter size pieces
- Carrots were labeled Carrot 1 for “Store-bought” and Carrot 2 for “local and organic” for the first part of the test, and “store-bought” or “local and organic” for the second part of the test
- Blind taste test by consumer
  - Adults [only] were allowed to participate

We are aware that there is an inherent bias in the results because respondents were people who had made a special trip on a Saturday to go to the Winter Farmers’ Market in the basement of the town hall. This means the respondents are most likely part of a demographic profile which supports local foods as an important part of their food purchases. By understanding this bias, it is possible to gather information about a demographic profile that has interest in purchasing local foods.

Results and Discussion

Figure 25 displays the number of respondents who preferred either the conventional store bought carrot or the local carrot in both the blind taste test and the informed taste test. In
the blind taste test twelve (37.5%) respondents preferred the conventional store, and twenty (62.5%) respondents preferred the local and organic carrot.

![Blind vs. Informed Carrot Preferences Test]

**Figure 25:** Blind vs. Informed Carrot Preferences Test

When respondents knew which carrot they tasted, the store bought carrot was chosen only once, while the local and organic carrot was chosen thirty six times. This demonstrated that test respondents were affected by the labeling of the carrot, and clearly they wanted to prefer the local organic carrot.

Figure 26 displays the buying preference of all survey participants, in terms of where they obtain the majority of their food. This was ranked from one to seven with one being the least amount and seven being the most amount of food purchased. The supermarket was ranked the highest followed by farmers’ market, co-op, farm stand, other, CSA and convenience store. The results are interesting, because despite the interest in supporting local food the highest ranked outlet was the supermarket. Farmers’ market and co-op were ranked second and third not surprisingly because of the respondents’ connection or interest in eating locally. Even though they have the interest in local and organic food, most of their food is purchased from supermarkets.
Flavor stood out as the most important characteristic for both the local and conventional carrot, followed by texture for respondents choosing the local carrot over the store-bought carrot. This information is valuable to local producers because the respondents in this taste-test and survey were specifically coming to the farmers’ market as potential customers for the local vendors. Since flavor and texture stood out in the taste test, local producers may want to focus on these characteristics when choosing varieties and marketing consumer preferences.

This survey and taste-test does not accurately represent the entire demographic profile of the Kearsarge Regional Food System because of the obvious bias in the sampling. However, the information collected is useful to local producers because it represents customers at the Warner Winter Farmers’ Market. Thus, the information is helpful to understand a demographic profile with a connection to local food, which includes customers of local producers. More research in the Kearsarge area could be conducted to understand
perceptions and attitudes towards local food from samples with less bias in order to accurately gain information on the entire demographic profile.

To continue evaluating consumer perceptions we conducted another survey that focused on aspects such as buying habits, important food purchasing factors and barriers to buying local food. This survey (Appendix B2) was distributed online and in paper form to the fifteen towns in our study area.

**Procedures**

Our goal was to have this survey reach people in all fifteen towns. The online survey was distributed at Colby-Sawyer College. We advertised the survey in the Kearsarge Shopper which circulates to about 17,600 people in the Kearsarge Regional Area (Echo Communications Inc., 2011), which includes the majority of our towns. Through our ad, we asked people interested in taking the survey to contact us through an email address in the ad. This distribution avenue brought in ten online surveys. The online survey received 105 responses which included the faculty and staff at Colby-Sawyer College. The survey was dropped off at Pillsbury Free Library in Warner, Yankee Farmer’s Market in Warner, Tracy Memorial Library in New London, Hogan Sports Center at Colby-Sawyer College in New London, the Andover Town Hall and the Newbury Library.

Students in our team went to three transfer stations: Hopkinton/Webster, Warner and Henniker, to conduct the surveys in person. At the transfer stations our team members stood outside the recycling section with the surveys on clipboards. We walked up to people dropping off their recycling and had two different techniques. First, we asked people to take the clipboard and fill out the survey themselves. The second and preferred option was to walk with the person, ask them the questions, and record their answers.

We collected a total of 289 surveys and 260 of them were usable. The twenty-nine surveys not used were taken by respondents outside of our fifteen town boundaries. After all of the data was collected we entered it into Microsoft Excel. The data was imported to Software Statistics Package for the Social Scientists (SPSS).
Figures 27 and 28 shows the percentage of respondents by the town they reside in. Fifty-three of the surveys had no town recorded on their survey. The second and third highest percentages of respondents were from New London and Warner. We performed a chi square test on our data and got a value of $x^2 = 114$. A chi square test is used to determine whether the proportion of surveys we received per town is similar to the proportion of the total population of residents that live in each town. With a p-value of 0.05 and fourteen degrees of freedom our f-statistics was 23.36. Our $x^2$ value is significantly higher than 23.36, therefore it is very significant. This means that our sample was very biased towards the towns of New London and Warner.
<table>
<thead>
<tr>
<th>Town</th>
<th>Pop/Town 2009</th>
<th>Observed # of Surveys/Town</th>
<th>Percentage of Population of Each Town From Total Population</th>
<th>Expected Chi Square</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andover</td>
<td>2,210</td>
<td>7</td>
<td>0.0557</td>
<td>11.53</td>
</tr>
<tr>
<td>Boscawen</td>
<td>3,984</td>
<td>0</td>
<td>0.1004</td>
<td>20.78</td>
</tr>
<tr>
<td>Bradford</td>
<td>1,526</td>
<td>6</td>
<td>0.0384</td>
<td>7.96</td>
</tr>
<tr>
<td>Danbury</td>
<td>1,138</td>
<td>2</td>
<td>0.0287</td>
<td>5.93</td>
</tr>
<tr>
<td>Henniker</td>
<td>4,997</td>
<td>16</td>
<td>0.1259</td>
<td>26.06</td>
</tr>
<tr>
<td>Hopkinton</td>
<td>5,586</td>
<td>27</td>
<td>0.1407</td>
<td>29.13</td>
</tr>
<tr>
<td>New London</td>
<td>4,401</td>
<td>42</td>
<td>0.1109</td>
<td>22.95</td>
</tr>
<tr>
<td>Newbury</td>
<td>2,075</td>
<td>22</td>
<td>0.0523</td>
<td>10.82</td>
</tr>
<tr>
<td>Salisbury</td>
<td>1,268</td>
<td>0</td>
<td>0.0319</td>
<td>6.61</td>
</tr>
<tr>
<td>Springfield</td>
<td>1,138</td>
<td>4</td>
<td>0.0287</td>
<td>5.93</td>
</tr>
<tr>
<td>Sunapee</td>
<td>3,357</td>
<td>6</td>
<td>0.0846</td>
<td>17.51</td>
</tr>
<tr>
<td>Sutton</td>
<td>1,844</td>
<td>13</td>
<td>0.0465</td>
<td>9.62</td>
</tr>
<tr>
<td>Warner</td>
<td>2,940</td>
<td>39</td>
<td>0.0741</td>
<td>15.33</td>
</tr>
<tr>
<td>Webster</td>
<td>1,882</td>
<td>10</td>
<td>0.0474</td>
<td>9.82</td>
</tr>
<tr>
<td>Wilmot</td>
<td>1,345</td>
<td>13</td>
<td>0.0339</td>
<td>7.01</td>
</tr>
<tr>
<td>TOTAL</td>
<td>39,691</td>
<td>207</td>
<td>1</td>
<td>114.68</td>
</tr>
</tbody>
</table>

**Figure 28:** Percentage of Respondents by Town
Figure 29: Percentage of Respondents by Age

Figure 29 displays the age ranges of our respondents by percentage. The majority of our respondents were between ages thirty five and fifty four.
Figure 30: Number of People per Respondents per Household

Figure 30 shows the number of people per household of the respondents. The category with the highest percentage was two to three people per household. This suggests that our respondents may be couples with one or no children or single parents.
Figure 31: Respondents' Definition of Local Food

Figure 31 displays the respondents' definition of local by percentage. Our data shows that the majority of respondents, about 33%, believe that “local food” is defined as food produced within twenty five miles. Food produced within New England, and specifically within New Hampshire, are also acceptable definitions for about 28% and about 26% of our respondents, respectively.
Figure 32: Perception of the Relationship Between Price and Local Food

Figure 32 shows that respondents’ perceive local food as more expensive than non-local food. The majority of respondents, about 72%, answered yes they do perceive local food to be more expensive than non-local food.
Figure 3: Perception of the Relationship Between Quality and Local Food

Figure 3 displays the respondents’ perception that local food is of higher quality than non-local food. About 87% of respondents believe that local food is of superior quality.
What Are Some Important Buying Factors You Consider When Buying Food?

Figure 34: Factors Considered in Food Purchases

Figure 34 represents the important food purchasing factors for respondents. It shows that about 25% of respondents think that quality is the most important factor when purchasing food. Freshness and price are the next most important factors at about 21% and 20%, respectively.
Figure 35: Percentage of Respondents Who Grow their Own Food

Figure 35 shows the percentage of respondents that grow or raise any of their own food. About 55% of respondents do grow their own food. We found that respondents between the ages of thirty five and fifty four were the majority of people who grow their own food, followed by ages fifty five to sixty four.
Analysis
In our survey, one of the questions we asked respondents was which factors are most important when purchasing food from a list of seven factors. When we ran descriptive statistics we found that the most important factor for about 25% of the total respondents was the quality of the food being purchased.

To determine if purchasing factors play an important role in where respondents shop we compared purchasing factors and the outlets where respondents buy most of their food.

![Figure 36: Purchasing Factors Considered in Food Purchases]

In Figure 36, we compared the people who purchase the majority of their food from supermarkets with food purchasing factors. We were expecting to see that only the respondents that placed price as their most important factor would shop at supermarkets. However, it was interesting to see that the respondents who put organic and local as their important purchasing factors also shopped for the majority of their food at supermarkets instead of farmers’ markets or farm stands. This could be due to the paradigm that local
and organic food is more expensive at farmers’ markets and farm stands than at supermarkets.

Figure 37: Comparison of Towns with Farmers' Markets to Respondents' Perception of Local Food

We looked at the towns with farmers’ markets and compared them to respondents’ definition of local. The purpose for this analysis was to see if people in towns with farmers’ markets define local as the closest option we provided which was twenty-five miles. Figure 37 displays the towns with farmers’ markets which are New London, Warner, Contoocook, Newbury, Henniker, Wilmot and Andover. When we compared these towns with towns without farmers’ markets we observed that the towns listed above chose the definition of local as twenty-five miles more frequently than the towns without farmers’ markets.
We compared the respondents’ age group with the twenty five mile definition of local food. The purpose of this analysis was to see which age group defines local as twenty five miles more frequently than the others.

Figure 38 displays that 40% of respondents in the age group of thirty five to fifty four define local as twenty five miles. This percentage is higher than the other three age groups.
Figure 39: Relationship between Number of People per Household and Price as a Factor

We compared the number of people per household with price as an important factor when purchasing food. We hypothesized that households with more members tend to prioritize price in comparison to other factors. Figure 39 supports our hypothesis that as the number of members in a household increase price becomes a more important factor. As this group of respondents is strongly driven by price, farmers and agricultural organizations, such as KAEL, could focus on educating the community that local food is not necessarily more expensive than non-local food.
We compared the towns with the barriers they encounter when buying local food. In our descriptive statistics we found that availability was the most frequent barrier chosen by about 53% of total respondents in almost all of the towns. This could be due to the shorter growing season in New Hampshire and a general lack of cold storage space. The purpose of this analysis was to see if there were any specific barriers that one town faced more than the other towns. Figure 40 shows that availability is [again one] of the barriers that most of the towns are facing. Wilmot and New London are the towns where price is the major barrier, while in Danbury and Webster location is the major barrier.

Discussion:
Because of the locations of our surveys and the availability of the online survey our sample is biased. There are a few reasons why we may have such a biased sample. The surveys were distributed to faculty and staff of Colby-Sawyer, many of whom live in New London. They were also distributed to Tracy Memorial Library and Hogan Sports Center which are
places that many New London residents use. We got our second highest number of responses from Warner. This could be a factor because people in Warner could be more aware of our project. Kearsarge Area Eat Local (KAEL), our community partner for this project, is located in Warner. KAEL has been promoting local food by sponsoring events such as the Fall Foliage Festival and public movie showings. They also have a strong agricultural connection and focus much of their efforts on the local agricultural economy.

Our sample also lacks any respondents from a few towns. Boscawen and Salisbury were not represented in our sample. This could be because the locations where we distributed our surveys were not places that many people from Boscawen and Salisbury visit frequently. They are farther away from Colby-Sawyer College compared to areas where we got high numbers of surveys such as Warner, Newbury, and New London. Salisbury has a smaller population than many of the towns in our area. According to our chi square test we only expected about six respondents from Salisbury to represent the town proportionally.

**Conclusion**

To conclude our demographic trends, our data showed that about 43% of our respondents were between the ages of thirty five and fifty four and about 61% of our respondents lived in a household with two to three people.

To conclude the perceptions of our respondents about 33% of our respondents defined local as twenty five miles, 72% of our respondents thought local is more expensive than non-local while 86% of respondents said that local food is of higher quality than non-local food. We also found that quality is the more important factor for the majority of respondents instead of our original hypothesis which was price. Even though we realize that our data is biased we did find some trends that could open the possibilities for future studies in a larger context.
SWOT Analysis

A SWOT analysis (strengths, weaknesses, opportunities and threats) was conducted for the Kearsarge area in order to have a better understanding of what aspects of the food system are strong and what areas could use improvement. The objective of this SWOT was to better understand the area so we could make recommendations for what could be done in order to make a healthy local food system (Figure 41).

<table>
<thead>
<tr>
<th>Strengths</th>
<th>Weaknesses</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Farmers in the area have expertise and the ability to grow food effectively.</td>
<td>• Lack of communication, network, and collaboration amongst farmers.</td>
</tr>
<tr>
<td>• The location of major roads such as Interstate 89 going through the area.</td>
<td>• Limited infrastructure support, in a form of shared information and tools amongst farms.</td>
</tr>
<tr>
<td>• High level of income of residents in the area.</td>
<td>• Lack of a processing facility, both on farms or a large shared processing facility for all the farms in the area.</td>
</tr>
<tr>
<td>• Support groups for farmers such as KAEL, and the UNH cooperative extension.</td>
<td>• Limited shared transportation and distribution.</td>
</tr>
<tr>
<td>• Markets for farmers to sell products.</td>
<td>• Lack of storage facilities for produce on farms or shared facilities.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Opportunities</th>
<th>Threats</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Food hub, a large shared location for farmers to process and distribute food.</td>
<td>• Big supermarket providing food at a lower price than some farm goods.</td>
</tr>
<tr>
<td>• Use of colleges and schools as a marketplace, or use of kitchens.</td>
<td>• Climate conditions, climate change, and pests changing how farmers</td>
</tr>
</tbody>
</table>
- Education for farmers focused on marketing goods and advanced farming technologies.
- Perception shift to educating the consumer on the benefits of locally grown food.
- Using markets, such as institutions, along with the collaboration of farmers markets in order to be more successful.
- New farmers being introduced into the area.
- Create collaborations by putting farmers in contact with each other so that they may work together.

<table>
<thead>
<tr>
<th>Strengths</th>
<th>Weaknesses</th>
</tr>
</thead>
<tbody>
<tr>
<td>The farmers within our area are all experienced and have the knowledge required to run an effective farm. For example, Contoocook Creamery at Bohanan Farm has been in operation for over 100 years. Over the time that our farmers have been working they have built up the knowledge required to produce food in our area.</td>
<td>Perception of consumers, and cost of local food.</td>
</tr>
<tr>
<td>The location of major roads, such as Interstate 89, is a strength in our area. According to NH Department of Transportation data, the traffic volume on I-89 between exits 8 and 9 in Warner was 21,000 vehicles per day (State of New Hampshire Department of Transportation).</td>
<td>Political/legal (GAP certification), forcing farmers to become certified, in order to compete in some markets.</td>
</tr>
<tr>
<td>By marketing to buyers that are passing through the food area, our farmers have the ability to sell to a completely new customer base. The traffic route serves as an</td>
<td>Technology, in the form of high cost of updating farm equipment.</td>
</tr>
<tr>
<td></td>
<td>Farmers markets are fragmented and do not always collaborate with each other.</td>
</tr>
</tbody>
</table>

**Figure 41:** SWOT Analysis for the Kearsarge Regional Food System
outlet to potential customers and for farmers to get products to market. Along the interstate there are easily accessible farms and farmers’ markets for passing consumers. Since there is not a slaughterhouse in the nearby area, this route also allows access north and south to USDA slaughterhouses. Besides Interstate 89, Interstate 93 is nearby this region and is a connection to major cities, like Boston, providing a higher influx of people to the area.

- The average income of people living in the Kearsarge area is $65,101, which is higher than the average of New Hampshire, at $63,277, and even higher than that of the United States, at $51,914. With more disposable income, the residents of our food system have the capability to spend their money within the system on locally grown food. When asked what the most important factors are for shopping in the area, people stated quality and freshness as the two most important factors, with price as the third most important factor. Based on this information, it would appear that these shoppers would be willing to pay more for food of higher quality. It is not the case that in all instances local food is more expensive than food from a box store, however, with this data, it appears that a shopper is more interested in buying fresh food of higher quality than how much they spend on the food.

- Support groups for farmers, such as KAEL and the University of New Hampshire (UNH) Cooperative Extension, are groups that help farmers and agriculture in the region. KAEL supports farms in the area primarily through awareness efforts and UNH Extension supports farmers through lectures and classes. The Extension also offers a consulting service, workshops, visits with farmers and certifications for farmers for pesticide use.

- Within our area we have identified seven separate farmers’ markets along with nine farms that offer CSA programs. With both farmers’ markets and CSAs being used in our area, our farmers are taking advantage of several marketing tactics.

**Weaknesses**

- Communication, networking and collaboration are areas that can be strengthened to benefit farmers. Since there is not a network system set up that puts all of the farms
in the area in contact with each other there is no way for them to share information and knowledge.

- Farmers’ markets in the area are fragmented and do not always collaborate with one another. Since the farmers’ markets are not always working together or communicating, there is the possibility that they have overlapping dates of operation that create competition instead of collaboration. This also hinders the farmer since they may be limited to only selling at one market. We saw an example of conflict in the New London and Andover markets because they occur on the same day in towns that are close to each other. Refer to the Recommendation section titled ‘Reshaping Farmers’ Markets.’

- Our food system lacks infrastructure in the form of processing facilities. Many of the farmers that we visited told us that having a shared processing facility where they could freeze and store produce or a kitchen in which they could prepare foods for customers would be ideal. Refer to the Recommendation section title ‘Food Hub Facility.’

- There are several inputs into our food system that come from outside the local area. Currently there are no seed vendors within the area so farmers must look outside the system in order to buy the seeds that they need. Compost is also something that farmers must find from outside the system. Refer to the Recommendation section titled ‘Composting Facility.’ Within a healthy food system inputs are locally available to farmers. As for produce leaving the farm, there is also a weakness in infrastructure. There is only one slaughterhouse in New Hampshire and it is not located within this area, so farmers must send their animals outside of the system in order for it to be processed for sale. At Contoocook Creamery we learned that their milk must first be brought to Maine where it can be bottled and then brought back to be sold. The lack of these establishments is a weakness since food must leave the system before it can be sold within the system, adding fossil fuel emissions to the environmental cost of local food.
• There is a limited amount of carpooling between farmers in the distribution of farm goods in and outside our food system. Farmers might save time, fuel, and emissions by sharing truck space to markets.

• Small farms do not have the space to store all of their produce and goods. In our area, we have identified many farms that lack the ability to store all of the goods that they produce on their farm due to lack of storage space. This can result in having to dispose of produce when or if it spoils.

Opportunities

• A food hub or a large shared location for farmers to process and distribute food would be beneficial to the area. Currently there is no communal, industrial kitchen that our farmers can use to process the food they grow. This is an opportunity that could benefit all of the farms in the Kearsarge area. We have identified a system that has been successful in Hardwick, Vermont and we believe it could work in our area. Refer to the Recommendations section title ‘Food Hub Facility.’

• There is potential to utilize colleges and other schools in the area for their resources. Campuses may be able to be used for farmers’ markets, and kitchens may be available for use during certain times of the year when not occupied by students. There are several schools within the area including, elementary and high schools, along with Colby-Sawyer College, which could all buy food from farmers to serve to their students. These institutions also have industrial kitchens that farms could potentially use in the preparation of food.

• Marketing is an important aspect of any business. It is one area that farmers could improve on by making their presence known on the Internet. With new marketing tactics farms would have a chance to sell to a wider range of consumers. Refer to the Recommendations section title ‘Marketing.’

• With a wide range of customers, it is important that the buyers are aware of the benefits of supporting a local food system. An example of a local food system helping its community was during Hurricane Irene in Vermont. Even with blocked roads due to storm damage people in rural towns had food from local farms. It is necessary that buyers understand how important a food system is to the
community that it belongs to. An opportunity for the farmers of the area is to make buyers aware of their proximity to local farms and the food that they can provide to the buyer. Refer to the Recommendation section titled ‘Promoting Environmentally Conscious Farming Methods and Marketing.’

- In this food system there are several farmers’ markets that could collaborate with one another in order to run more efficiently. These markets have shoppers ranging from seventy to 300 people on the day the market takes place, with the number of vendors ranging from twenty six, in towns like New London, to only two at smaller markets. At bigger markets it is common to see vendors selling products other than food, such as arts and crafts. This can bring in a wider variety of customer who are likely to browse the local farmers’ stands. By working together, farmers’ markets will not have over-lapping times of operation and farms would have the opportunity to sell their goods at more than one market. Refer to the Recommendation section titled ‘Reshaping Farmers’ Markets.’
- There is an abundance of undeveloped land in the area, and there are opportunities for farmers to start new farms.
- In order to make working amongst each other more viable it would be beneficial for farmers to be in contact with each other. This would enable them to work together, coordinate events and help each other with advice, suggestions, or questions they may have. Refer to the Recommendation section titled ‘Networking.’
- Farmers will have a new and larger market to sell their produce to if the petition at Colby-Sawyer College is successful.

**Threats**

- Large supermarkets are able to buy produce in bulk and are able to sell it to the buyer at a lower price. It is not always the case that supermarkets have lower prices than farmers; however, the customer’s general perception is that they do. This results in the shopper looking for the lowest price, so they may avoid local food. Seventy-two percent of the respondents of our survey stated that they perceive local food to be more expensive than food from large box stores. This is presented as a threat since a large portion of the group we surveyed believes local
food costs more and may be hesitant to shop locally if they are trying to save money. Refer to the Survey Analysis section where respondents received local food to be more expensive.

- As our climate conditions change and new pests are introduced to the area, farming practices will have to adapt to these changes, and that will be challenging. One example of pests is the Spotted Wing Drosophila (SWD). This is an invasive insect that came from China and Japan and has become established in NH, MA, CT, and RI (Eaton, 2011).

- In order for farms to compete in markets, such as selling to institutions like Colby-Sawyers dining hall, they must be GAP certified or meet other political and legal requirements. GAP refers to the way that fruits and vegetables are handled, harvested and stored. According to the USDA, the requirements set forth by GAP are set up to provide the customer with food free of microbial hazards and other health risks (USDA 2012). If a farm wishes to sell their produce to a buyer, such as Sodexo, for example, they must be GAP certified, and this may involve many changes to current practices.

- As improvements are made in the technology field, farms are constantly trying to keep up. It is expensive for farms to buy new equipment and machinery and make repairs on old machines that have broken down. This is a threat since small farms tend to have a hard time making the investment to upgrade farm equipment.

**Discussion**

The SWOT analysis helps to break down and visualize what aspects of the food system are strong and what areas need improvement. In our recommendation section of this report, we address steps and changes that can be taken in order to create a more fluid food system; that is, a system that is more self-sustaining with the capability to grow food for the residents of the area with fewer inputs from outside the area.
**Recommendations**

The strengths, weaknesses, opportunities and threats discussed in the SWOT analysis form a starting point for making recommendations in the Kearsarge Regional Food System. A food system, in general, consists of inputs and outputs, food production and distribution, the roads that connect the system and the transportation methods used on those roads as well as the people who participate and live within the system. The Kearsarge Regional Food System, though an artificially created collection of towns within a twelve-mile radius of Mount Kearsarge, can become a linked and connected system through implementing the recommendations we, have generated. The Kearsarge Regional Food System receives inputs, such as compost from outside the region. This food system also creates outputs, such as processing and distribution through retail, CSAs, farmers’ markets and schools. Marketing is an essential aspect to promote produce and attract and retain customers. Marketing methods of environmentally conscious farming will also aid in promoting produce to attract consumers who are increasingly aware of the consequences of food choices. Collaboration with area supermarkets who are willing to initiate local food movements, such as Hannaford’s, is necessary for meeting the demand and preferences of the consumer. Finally, attracting new and younger farmers to the area is a key component to this system to continue meeting the growing demand of local food. We make a number of specific recommendations below to address some of the opportunities to increase the health of the local food system.

**Reshaping Farmers’ Markets**

Within this food system there are eight farmers’ markets (Contoocook, Henniker, Warner, Bradford, Newbury, New London, Wilmot and Andover). The objective of this recommendation is to maximize the success of farmers’ markets by making suggestions for them to increase their traffic so local producers can optimize their time and effort at the markets and that farmers’ markets are the ideal place to bring consumers and producers together. Our survey results suggest that 46% of people who participated in the survey purchase some or most of their food from farmers’ markets. From that we can conclude that there is strong support for farmers’ markets as a source for food purchases.
We also observed, when taking data from farmers, that some farmers take their produce to areas of larger population, such as Concord, through distributions such as CSAs and farmers’ markets. For example, Larry Pletcher, of Vegetable Ranch, takes his produce to Concord for the Concord Farmers’ Market and provides produce for the Local Harvest CSA. Bob Bower, of Kearsarge Gore Farm, takes his produce to Manchester for the Manchester Farmers’ Market, and also provides produce for the Local Harvest CSA. This ensures a larger market for increased profit and demand of their goods. Given that we may not have information on all of the farms and the farmers’ markets that they participate in, we can still make recommendations for consolidating some farmers’ markets, as well as make observations of those farmers that provide for larger populations outside of this food system. By consolidating the farmers’ markets in the area and increasing the number of vendors at each market, there will be more demand. Producers would rely less on larger population centers, like Concord and Manchester, if there were larger farmers’ markets in this area. This would also reduce transportation costs and food miles because producers would travel a shorter distance.

As a general recommendation, farmers can increase the amount of sales in the local area by increasing marketing and consumer connections, while relying less on larger markets, such as Manchester and Concord, which have more concentrated population markets. This would reduce transportation costs because it will cut the distance they must travel to distribute their produce. In terms of more specific recommendations for the area, the Wilmot Farmers’ Market could combine with the Andover Farmers’ Market since they are both relatively small and closely located to one another. Since the Warner Farmers’ Market is well established and located on the main street and the Bradford Farmers’ Market is small, it could combine with Warner. Henniker is very small as well and could combine with the much larger Contoocook Farmers’ Market. The Newbury Farmers’ Market is also small and could combine with the larger New London Farmers’ Market that is conveniently located on the main street. The size mentioned above is based on traffic flow and is depicted in Figure 47 below.
In order to create a larger venue and facilitate demand:

- Combine Wilmot and Andover Farmers’ Markets
- Combine Bradford and Warner Farmers’ Markets
- Combine Henniker and Contoocook Farmers’ Market
- Combine Newbury and New London Farmers’ Market

The basis on which this was determined is that they are located in a close proximity to one another.
To maximize traffic and consolidate currently occurring market days:

- Warner and Bradford Farmers’ Market should be on Saturday and take place in Warner
- Contoocook and Henniker Farmers’ Market should be on Friday and take place in Contoocook
- New London and Newbury Farmers’ Market should be on Wednesday and take place in New London
- Andover and Wilmot Farmers’ Market should be on Friday and take place in Wilmot

The basis on which this was determined is to ensure that the larger markets do not occur on the same day. The specific days were chosen to continue with traditions and so that consumers would have the maximum amount of time to visit them.

<table>
<thead>
<tr>
<th>Farmers’ Market</th>
<th>Day It Currently Occurs</th>
<th>Recommend Day of Occurrence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andover Farmers’ Market</td>
<td>Wednesday</td>
<td>Friday</td>
</tr>
<tr>
<td>Wilmot Farmers’ Market</td>
<td>Saturday</td>
<td>Friday</td>
</tr>
<tr>
<td>New London Farmers’ Market</td>
<td>Wednesday</td>
<td>Wednesday</td>
</tr>
<tr>
<td>Newbury Farmers’ Market</td>
<td>Friday</td>
<td>Wednesday</td>
</tr>
<tr>
<td>Contoocook Farmers’ Market</td>
<td>Saturday</td>
<td>Friday</td>
</tr>
<tr>
<td>Henniker Farmers’ Market</td>
<td>Wednesday</td>
<td>Friday</td>
</tr>
<tr>
<td>Warner Farmers’ Market</td>
<td>Saturday</td>
<td>Saturday</td>
</tr>
<tr>
<td>Bradford Farmers’ Market</td>
<td>Thursday</td>
<td>Saturday</td>
</tr>
</tbody>
</table>

**Figure 48:** Farmers’ Market Current Day of Occurrence in the Kearsarge Area
In order to implement these recommendations:

1. Contact farmers’ market managers to see if collaboration is possible
   - Andover – Kat Darling 724-4983 or 2mtnfarm@gmail.com (Darling, 2012)
   - Wilmot – Mary Lloyd-Evans 735-5058 or mlloydevan@tds.net (Wilmot Farmers’ Market, 2012)
   - Warner – Bob Bower 456-2319 or kgfarm@tds.net (Kearsarge Gore Farm, 2009)
   - Bradford – Kate Dobrowski 938-6228 (Bradford NH Community Farmers Market, 2010)
   - Henniker – Intervale Pancake House 428-7196 (Town of Henniker Farmers Market)
   - Contoocook – Amy Deutsch 746-5322 (Contoocook Farmers’ Market, 2012)
   - New London – New London Recreation Department marketonthegreennewlondon@gmail.com (Market on the Green, 2012)
   - Newbury – Sue Russell 763-0181 or crazyrussell@msn.com (Newbury Farmers’ Market)

2. Managers contact vendors to see if there is an interest in collaboration

3. If enough interest, vendors should meet to explore the opportunity further, as far produce and goods available and marketing the redesigned and newly located market
   - Vendors should inform consumers through marketing and communication where previously posted
Marketing

Consumers today are strongly linked into social media outlets and the internet. Increasing visibility on popular websites and social networks, such as Facebook, Twitter, Google Plus, and Google Maps, would aid farmers in the Kearsarge area in increased business and visibility. More specifically in the Kearsarge area, the KAEL website would benefit from a more user-friendly and informative format for consumers. KAEL has expressed interest in an intern to increase the quality of their site. Since KAEL could potentially be an influential actor in this food system, there is room for them to grow and help the area farmers better market and sell their produce. Hosting educational workshops for farmers would build a better business and improve skills. These workshops, hosted by KAEL, could create increased personal connections with customers, as well as increased prompt responses. As a class, we found that, when contacting farmers, it sometimes took multiple phone calls and some farmers never responded. We recognize that small farmers are responsible for production, transportation, advertising and selling products, and may have to compromise where time can be spent. This recommendation is aimed at some of the time demands for producers.

Jim Ramanek and Anne Nason, of Warner River Organics, offer an online component at the Weare and Contoocook Farmers’ Markets. Customers can order shares in their online CSA and place orders for CSA items on the internet. Customers can still order produce online without necessarily being a CSA member. The online CSA utilizes an online program on a website called Harvest to Market (www.harvesttomarket.com). The software provider is a New Hampshire based company and includes a newsletter for subscribers to a farmer’s market. CSA members buy a discounted credit rate at the beginning of the season and have the entire season to use the credits up. The online ordering system is closed for orders the day before and the day of the market. This is because producers have limited time to prepare for the markets and cannot be processing and cleaning produce at the last minute before the farmer’s market occurs. Customers can go to either the Weare or Contoocook Farmers’ Market to pick up what produce they want in whatever quantity they specified on the online program. Jim and Anne also indicated that they would like to expand their online farmers’ market influence to Canterbury, Penacook and Henniker. Jim and Anne offered
their opinion on the software provider. In their experience using the program, they have discovered that it takes a while for customers to use the online market. However, after they start using it they enjoy it. A benefit that they think the software provides is that it is important for vendors at winter markets because of spoilage that occurs by removing produce from cold storage and transporting it to market where it is exposed for four hours and then placed back into storage. Another benefit is that vendors know the exact amount of produce to bring to the farmer’s market. The Harvest to Market website also has the ability to accept payment, but Jim and Anne use a pay at pick-up option. Jim and Anne implement a market fee of one dollar per order to cover the cost of operating the software.

Farmers in the Kearsarge region could offer online ordering using the Harvest to Market website. This way the producer would know the exact amount of food to bring to markets and increase the efficiency of distributing and selling their produce. Currently the online farmer’s market with online ordering in the Kearsarge area is the Contoocook Farmer’s Market. Andover is the only farmers’ market that is not on the Harvest to Market website, but could consider making an online presence (Nason & Ramanek, 2012).

The Colby-Sawyer College administration recently approved a CSA pick-up point during the summer in the commuter parking lot. This pick-up point would increase the convenience of food purchasing by consumers in the area. Producers in the area should take advantage of this opportunity to potentially expand to a market that values convenience in food purchasing.

**Recommendations**

- Producers should increase their visibility on the internet, using websites such as Facebook, Twitter, GooglePlus, and Google Maps. Producers should also consider making their own website.
- KAEL should offer an intern position to create a more informative and user-friendly web presence.
- KAEL should post the farmer directory created by this project on their website.
- Producers should have a presence on [www.harvesttomarket.com](http://www.harvesttomarket.com), and consider selling produce via online ordering through farmers’ markets and CSAs.
• Producers should utilize the newly approved CSA pick-up point at Colby-Sawyer College

Producers can easily create pages and free websites on the internet that are user-friendly and provide useful information about their operations. Examples of sites that offer web-building services are:

• www.weebly.com
• www.webs.com
• www.homestead.com
• www.sites.google.com

KAEL could offer an intern position for a Graphic-Design Major at Colby-Sawyer College. The intern could work during the summer to revamp the website and make it more informative and user-friendly for consumers. The intern can make the following improvements to their website:

• Post the farm directory created by this project
• Create a link to this project’s final report
• Include information about events KAEL is hosting

Producers should join the website www.harvesttomarket.com, and post relevant information about their farm on the farmers’ market page that they participate in. Producers should also contact their known customers and see their opinions about an online ordering system. If there is support for online ordering producers should consider setting up online ordering, and inform known customers a new option of ordering produce. Producers should also advertise at farmers’ markets that they do online ordering, so new customers know that it is an option as well.

Producers interested in using Colby-Sawyer College for a CSA pick-up point should contact Sharon Williamson the Director of Campus Activities and the Coordinator of Orientation at 603-526-3756 or at swilliamson@colby-sawyer.edu.
Collaboration with Supermarkets

Local supermarkets are an existing infrastructure that can be utilized by farmers for distribution of produce to a larger demographic. Hannaford’s in New London is an example of a supermarket that strives to work with farmers for distribution of their produce through the “Close-to-Home” program. This term is used in place of the word “local” because the company decided that it was a widely interpreted term. The program was started in 2008 and is available throughout all of the Hannaford's stores. It allows the manager of the store to work with local farmers to sell their produce (Kenyon, Hannafords Market, 2012). In this way the manager is given some flexibility from management to decide what should be sold within the store regarding the Close-to-Home program. The New London store is currently working with farmers in Springfield, Claremont, and Lebanon, but, according to store manager Nate Kenyon, they are open to more connections with other farmers (Kenyon, Hannafords Market, 2012). Farmers who wish to participate in the program must be located within the state of the store location and must be able to provide a reasonable amount of produce. This ensures that Hannaford’s has enough supply (Kenyon, Hannafords Market, 2012). Farmers must be insured and have their farms inspected by Hannaford’s to ensure that they meet Hannaford's Acceptable Farming Standards, which mandates that livestock cannot be too close to the crops. Workers must have potable water and restrooms within the field (Duffy, 2008). In addition to this it is recommended that farmers become GAP certified, although this is not currently required (Duffy, 2008).

One way that farmers can help their product be competitive in the supermarket is to add value to it by labeling, naming, or any other way that distinguishes their product from others (Bloom & Hinrichs, 2010). A study was performed looking at how to successfully sell local food with an existing infrastructure and found that by adding value to differentiate it from other products is important (Bloom & Hinrichs, 2010). Through the area wide survey distributed by our class, we found that 87% of respondents acquire most of their food from a supermarket.
Recommendations

- In order to sell in the supermarkets, producers should meet Hannaford’s Acceptable Farming Standards.
- Producers should increase value by advertising their product as locally grown or produced. This would help differentiate their product and make their product competitive.
- Producers should become insured to be eligible for participate in Close-to-Home.

Implementation

- Contact Hannaford’s Close-to-Home coordinator Wendy Ward at 207-885-2711 or by email at weward@hannaford.com for more information about how to meet Hannaford’s Acceptable Farming Standards.
- Market produce to sell in supermarket through labeling by communicating value through terms such as local and organic.

Food Hub Facility

Throughout the data collection phase of the project we noticed that a recurring theme that many of the area farmers mentioned was that the lack of processing facilities in the area is a barrier. Some of the facilities the area farmers mentioned were a USDA or state certified slaughterhouse, milk bottling, cold storage, a certified commercial kitchen, and composting facility. Local farmer Larry Pletcher of the Vegetable Ranch built a walk-in cooler on his property to store his crops for longer periods of time. This was extremely beneficial for him to keep his crops longer. Since many farmers stated this as an issue, we started thinking about ways that farmers, businesses, and organizations could work together to build a “food hub” that can be used by everyone in the Kearsarge area. The definition of a food hub is a location which offers food processing and storage, is made up of businesses and organizations that mutually support each other, and is a resource for the agricultural community (Cheshire County Conservation District, 2012). Upon looking further into the idea of having a processing facility in the area, we learned the Cheshire County
Conservation District (CCCD) was looking into converting an old structure into a food hub. This could be a good model to follow in the Kearsarge food region.

An example of an existing food hub is the Vermont Food Venture Center (VFVC) located in Hardwick, Vermont. The VFVC is a non-profit organization operated by the CAE that provides three fully licensed commercial kitchens for farmers and businesses to rent for many different scenarios such as prep, catering, baking, and teaching. It is a 15,000 square foot facility fully equipped with hot and cold storage, a packaging facility, and a bakery. The equipment available for use at the VFVC includes:

- Double-stacked convection oven
- 4-8 burner gas commercial stove top
- Tilt skillets (small & large)
- Labeling machine
- Type 1 fume hood (16 ft.)
- 25 quart vertical cutter mixer
- Walk-in cooler
- Dehydrator/drier
- USDA approved scales
- Stainless steel sinks
- Water activity meter
- Moving cart
- Tables
- Pallet stacker
- Commercial bakery equipment
- Steam kettles (approx. 40 gal.)
- Automatic capper
- Food pump w/stainless steel
- Fruit & vegetable mills
- Immersion mixer
- Bottling and filling lines
- Robot Coupe
- Fruit and vegetable processing
- Double refrigerator & freezer
- pH meter
- Racks
- Pallet jack
- Small forklift

Along with the physical facilities, the VFVC provides assistance with business services, such as certification processes, financing, marketing, and more. There are also educational opportunities available to the community and local farmers. Visit [http://vermontfoodventurecenter.org/](http://vermontfoodventurecenter.org/) for more information.

The CCCD submitted a draft of their report, *Cheshire County Farm and Infrastructure Feasibility* whose purpose was to assess the possibility of turning the old Cheshire County
Jail site into the Cheshire Count Commons Farm and Food Hub (Cheshire County Conservation District; Land For Good; Monadnock Conservancy, January 2012). Some of the proposed services for the food hub are:

- Food processing
- Food aggregation, distribution, and storage
- Food production
- Bulk purchase/re-sale
- Farmer and community education

Based on the information from CCCD’s report, the costs associated with the project include:

- Demolition of the existing building interior
- Improving the exterior windows, doors, walls and air sealing
- Core mechanical and electrical improvements
- Preparation to accommodate a processing facility
- Costs associated with architects, contractors, design, furnishing and equipment

This food hub is in the process of being accepted, but they did extensive research on all of the aspects needed to build and run a successful food hub.

We looked into a few places that already have kitchens established such as schools and churches. We contacted people in charge of the kitchens at the Kearsarge Elementary School and the Kearsarge Community Presbyterian Church. Doreen Salera, the Administrative Assistant to the Superintendent, stated that the school kitchens are unequipped to handle large volumes for farmers to process and Arthur Makechnie, the Food Service Director for the Kearsarge Elementary School, said that the kitchen is already being used year round by other organizations and tend to have repairs done over the summer months (Makechnie and Salera 2012). The Presbyterian Church’s facilities are only available for use by non-profit organizations due to the church’s policies (McManus, 2012).

One potential site for a food hub that could accommodate the processing needs of the farmers is the old Kearsarge Middle School which is located in New London and is no longer in use (similar to that of the Cheshire County Jail). The old Kearsarge Middle School
would be a good fit for our area because there is already a kitchen in place. However, the Superintendent of the Kearsarge Regional School District stated that the old middle school is not currently for sale, but could be voted on by tax payers if there was a proposal to purchase it (Frew, 2012).

If no existing structures are available, researching the possibility of buying land and building a facility is an alternative.

**Recommendation**
Create a food hub that suits the needs of the area farmers.

- Make hot and cold storage available
- Certified commercial kitchen for processing
- Milk bottling
- Meat processing (USDA or state certified)
- Space available for educational programs

**Implementation**

- Create a group of farmers, businesses and organizations with sufficient interest in establishing a local food hub
- Develop and conduct a survey to determine what equipment/space is necessary to support the project partners and area farmers
- Look for property available for purchase
  - For example, the old Kearsarge Middle School in New London
- Create a cost-benefit analysis
  - Research processing equipment that fits the requirements of the area
  (See examples stated above)
- Write a grant proposals:
  - Rural Business Enterprise Grant (RBEG)
    - RBEG provides funds to rural entities (towns, communities, non-profit organizations) for projects that finance and facilitate development of small emerging businesses. (USDA Rural Development, 2011)
o Value Added Producer Grant (VAPG)
  • VAPG are meant for planning activities and for working capital for marketing value added agricultural products and farm based renewable energy (USDA Rural Development, 2012)

o For more information on specific grants you can visit [http://www.rurdev.usda.gov/RD_Grants.html](http://www.rurdev.usda.gov/RD_Grants.html) or call David Robinson or Sherry Paige at 802-828-6011

**Composting Facility**

When identifying gaps that are missing or could use improvement in our food system, composting surfaced as an area that requires attention. Composting is way to complete the nutrient cycle and to keep resources in the system. By throwing away and not recycling or composting our excess organic material, we are interrupting the nutrient cycle by taking molecules out, which could have otherwise been accounted for (Evoy). When we compost as much as possible we keep the important organic material in circulation, as well as provide farmers with a useful product that will add nutrients to and improve the quality of their soil.

Some towns in New Hampshire are composting on their own already. For example, in Lee, a “Lawn and Yard Waste” facility has been implemented and, in the spring, residents can come by and pick up some of the finished product for free. Additionally, the town sells “compost bins” for around forty dollars each to be used by residents in the area. The town of Hanover has a zero-waste action plan and is hoping to achieve zero-waste by 2021, through the participation of all residents composting. The town has put infrastructure, such as backyard composting bins and composting turners, up for sale to promote participation. Ideal Compost Company, in Peterborough, New Hampshire, collects waste products, such as horse litter, manure, grass, leaves and feed waste. They turn waste products from the surrounding area into nutrient-rich compost. They sell their product home gardeners, organic farmers, landscapers and greenhouse operators (Ideal Composting Co., 2012).
In Hardwick, Vermont they have a composting facility, Highfields Center for Composting. Here, they provide technical services for on-farm composting and comprehensive food waste recycling programs, which include action-based environmental education (Cultivating Sustainable Systems, 2012). Tom Gilbert, who runs Highfields, introduced “livestock mortality composting” to Vermont. He stresses the fact that on a dairy farm, each year about five percent of the herd will die and it is important to know what to do with the remains to utilize all parts of the animal to improve soil quality and minimize waste in the system. In addition to cows, Tom also comports much of the food waste from the surrounding area, including schools, farms, and restaurants (Gilbert, 2011).

Another example of a composting center that has been successful is at Proctor Academy in Andover. The school comports all food scraps and separates meat and dairy products from all fruit, vegetable, and grain-based waste. These products are transported to the composting facility where it is turned with a back hoe and mixed with local horse manure and used for landscaping.

**Recommendation**

- Facilitate compost recycling in the Kearsarge area.
- Create a composting facility that accommodates the farmers in the area.
- Explore options for commercial composting enterprises that can benefit the food system.

**Implementation**

- KAEL should identify group of farmers with similar interests about a shared composting center. This can be done using the directory of farmers compiled in Appendix C.
- Look into institutions, businesses, farms, to institute a program for local residents who would be willing to contribute:
  - Buffalo manure at Yankee Farmer’s Market or manure from other farms, along with any produce from farms that has gone bad.
  - Schools, hospitals, residents, and restaurants with compostable material
• Property should be purchased or attained that would be a suitable spot for a composting facility. This can be completed a few ways including the following:
  o Someone already in the system have spare land that can be utilized.
  o Composting can be achieved by either small scale operations, such as piles in a back yard, or can be as complex as a fully functioning business and facility to compliment it.
  o Land can be purchased for construction of a facility. This would also provide a business opportunity for someone looking to start a business with low upfront and operating costs. To view a similar business model in the area, visit www.idealcompost.com. Composting can be achieved with little more than space, a source of organic material, and an ambition to work hard rotating the compost. It can also be done as intricately, as was evident at Highfields Center for Composting, where site work has been done to retain water and minimize runoff while also involving an overhead structure to allow composting indoors.

Attracting Young Farmers

Over the past decade the average age of farmers in New Hampshire has risen from fifty three to fifty six (Figure 49). In the United States, from 1945 to 2007, the average age has risen from thirty nine to fifty eight (Briefing on the Status of Rural America, 2008). As farmers continue to get older it is important to attract young people to agriculture. We are trying to build local food systems, agriculture needs to be considered as a viable career option.
Figure 49: Average Age of New Hampshire Farmers

Figure 50: Farm Income as Percentage of Total Farm Household Income
In the current economy, the younger population is pressured to obtain a job that will best support their family and lifestyle. While farm productivity has risen over the past century it would be assumed that farm revenue would also rise. By looking at trend data, it shows farm productivity and farm revenue, the opposite trend is seen (Figure 50 and 51) (Breifing on the Status of Rural America, 2008).

**Figure 51:** Number of People Fed Annually by One American

In 2007, 70% of farms in New Hampshire had a net loss. This is the highest percentage in New England and significantly higher than the United States average of 53% (Magnusson, 2010). Becoming a farmer is not about the money, it’s about the lifestyle and the enjoyment of producing your own food. It’s about purity of working the land, the belief that we can bring back the local food economy (Magnusson, 2010) (Structure and Finaces of U.S. Farms: Family Farm Report, 2007).

The younger farmers we talked to throughout this project mostly spoke about the difficulties of finding land to farm on. Alternatives have been implemented in our area. Some farmers are using conservation easements to relieve some financial stress brought on
by taxes. Conservation easements are also beneficial to land holders who allow farmers to use their land. Some farms in the Kearsarge Area that are protected under conservation easements include: Battles Farm, Kearsarge Gore Farm, Star Lake Farm, Two Mountain Farm, Hersey Farm, and Courser Farm. It is important for KAEL to support land trusts like the Ausbon Sargent Land Preservation Trust (ASLPT) and the Society for the Protection of Forests of New Hampshire (SPFNH), to protect farmland from development.

To help with the financial burden of beginning farmers, the USDA offers a direct farm ownership down payment loan program, which provides small interest loans that can be spent on land, equipment, livestock, seeds, and other farming needs (Farm Loan Programs, 2012) (Structure and Finances of U.S. Farms: Family Farm Report, 2007).

A more complete local system that is built to last is going to require the younger generation to relieve our aging farmers. To do this, agriculture must be considered a viable career option to meet financial and personal needs.

**Recommendation**

- Increase awareness of tax breaks to land owners with unused farmable land.
- Increase agricultural education throughout schools that emphasize the importance of eating locally.
- Make information regarding government and private grants and loans more accessible.
- KAEL should increase connections with the ASLPT and SPFNH to protect farmland

**Implementation**

- Create classified sections online to promote and advertise unused land. This can also be used to sell unwanted equipment.
- Hold more workshops on grant and proposal writing. There could also be a section on the KAEL website for grants.
- Provide connections to further information:
  - NOFA-NH Beginner Farmer Program
Promoting Environmentally Conscious Farming Methods and Marketing

When it comes to consumers buying locally there are various motivations why they buy specific products. Identifying these motivations can help us to make recommendations for how farmers can market their products.

In a study done by Jesse McEntee called, “Contemporary and traditional localism: a conceptualization of rural local food” two different food buying motivations were revealed analyzed. The study took place in Grafton County, New Hampshire, and focused on local food, presenting an examination of food systems.

These two food buying motivations were labeled “contemporary” and “traditional” local. In terms of contemporary local it can be described as “food procurement activity informed by explicit desire to: be environmentally sustainable, support local economy, obtain healthier/fresher products, support farmers, and maintain rural character” (McEntee, 2010). In other words contemporary local describes a shopper who is not interested in the lowest price food, but supporting causes through buying local food.

The definition of traditional local is different from contemporary local as it is “a motivation to obtain fresh and affordable food” (McEntee, 2010). Often times this entails having your own garden, or exchanging local goods with neighbors and friends.

These two definitions are beneficial to our project in terms of recommending how farmers can market their product to customers. It is clear in this study that there is a market of individuals who want to purchase fresh food, people who could be defined under contemporary local and traditional local.
Overall, we have found that the farms in our area are small scale (as compared to large monoculture farms in Western America) often selling their product directly to consumers. This information allows us to group these farms in the Kearsarge area together and recommend that they use their overall environmentally friendly farming practices to their advantage. This offers a way in which local farms can gain competitive advantage by differentiating themselves.

Supporting of local agriculture is a type of consumerism that the farmers in the area can take advantage of, since there are consumers who want to buy products that are environmentally sustainable. We found support for sustainable and environmentally friendly food in our consumer perception survey in the Kearsarge area. We asked respondents if they had any comments or suggestions about a healthy food system. One response recorded was, “I believe supporting local agriculture and land use practices is a civil responsibility and a moral obligation.” Another response stated that “a healthy local food system is imperative and should be a top priority for communities.” A statement was also made saying we need to “recognize the importance and value of buying healthy food. The price is worth it to make ourselves healthier and our world more sustainable.”

This supports the research done in Grafton County talking about the moral importance that consumers are responsible for supporting their local farmer, and would define these respondents under the contemporary local classification. Another respondent wrote, “The price is worth it to make ourselves healthier and our world more sustainable.” Once again we have found that consumers are interested in the environmental advantages that local food has over monoculture non-local practices.

In order to capture these consumers we think that it is important that farmers use this knowledge to enhance their marketing approach. This argument would include emphasis on the environmental benefits of their product, health benefits, and local benefits in the community and for the farmer. As stated earlier in this recommendation, there is a market of consumers who are interested and willing to purchase based on this contemporary of “local food.”
Recommendation

- Capture consumers by promoting fresh food that is farmed locally.
- Differentiate their local fresh food from supermarket fresh food
- Enhance market approach to capture consumers
- Emphasis on the environmental benefits of their product, health benefits, and local benefits in the community and for the farmer.

Implementation

- We recommend to farmers that they introduce and market their products highlighting the environmental advantages to their product.
- Phrases such as “locally grown”, “supporting your local farmer”, “keeping dollars within the community”, “healthier and fresher items” can be used to advertise advantages of locally grown food to consumers.
- Use pictures of the farm, and specific products that will intrigue customers to your business.
- This would be implemented individually for each farm, through advertising, and promotions.
- Use of the Internet, farm websites, Facebook pages, pamphlets encouraging consumers to visit your farm, and flyers to advertise the farms products.

Consumer Education and Perception

Educating our next generation about the importance of farming is extremely vital to any local area because that generation will be the people who will take over our farms and feed our future. The health of the land and population will be the future farmers’ responsibility. If they are educated about the importance of local food, and how it can help every party involved, they will be able to spur the benefits of local food to the entire area. It is our responsibility to educate them about these issues because they will be in charge of our future.
Holding presentations at schools in the Kearsarge area are great ways to promote local food to students of the next generation. It is important to show them the importance of local food and the benefits of such and explaining the benefits of decreasing the environmental impacts from agriculture, supporting local economies to strong farming habits. One could educate students about the Farm Bill and how it helps or hurts farmers in the area.

It is important to promote local food education programs in the area’s schools. This can be done through the strengthening of farm to school relations. The Andover, Henniker, Hopkinton, Kearsarge Regional and Sunapee School Districts already participate in the UNH Cooperative Extension Farm to School Program (Participating Schools, 2012). In order to educate the younger generations, it is important for school districts to connect with the New Hampshire Agriculture in the Classroom organization. This nonprofit organization educates children about the importance of New Hampshire agriculture. To do this, students attending elementary schools need to be introduced to agriculture and local agriculture every year. The earlier the idea of local food be introduced to the next generation, the easier it will be to understand the benefits can and difficulties of local. Field trips are another method by which students could learn about farms. Traveling to farms and learning through a hands-on experience will be another strong method of education. Post-secondary educational institutions are great places to educate the students that are about to enter into the work field and promote local food to our future consumers.

The Fall Foliage Festival is a community event that occurs each year in Warner, New Hampshire and this would be a good time to have educational events that discuss local food, and promote local food to the public. During the Fall Foliage Festival, it would be ideal to have educational paraphernalia that is distributed to children of all ages. Hands-on demonstrations and activities could be added to the program. Information tailored to children to remind them of the importance of local farms will help inform and remind them to support their local farmers and consume more local food.
Recommendations

- Promote local food education programs in the areas’ schools.
- Strengthen farm to school relations with New Hampshire Agriculture in the Classroom and UNH Farm to School Program
- KAEL holds educational events
- Events can be held for farmers through Colby-Sawyer College and New England College

Implementation

- Colby-Sawyer College and New England College host speakers once a year that discuss the necessities of local food.
- KAEL contacts schools to see if they would like speaker to come in and present about local food.
- School districts in the area should contact:
  - UNH Farm to School Program – UNH Cooperative Extension 603-862-4088
  - New Hampshire Agriculture in the Classroom – Ruth A. Smith 603-224-1934
- Colby-Sawyer College or New England College to have speakers come to their campuses and discuss local food. These events will primarily educate the audience about the importance of eating locally, and consuming local produce. These educational events should be open to the surrounding communities.
- KAEL should offer an educational event to children about the importance of local agriculture at the Warner Fall Foliage Festival. They should find farmers or members of KAEL that are passionate about educating young people about the importance of farming.
Conclusions

During the course of this project, we identified stakeholders that comprised the Kearsarge Regional Food System. These stakeholders include farms, food outlets and consumers. The major accomplishments of our study are as follows:

- Majority of the consumers perceive local food to be more expensive than non-local food. These consumers also consider quality as the most important factor in their area.
- Obtained approval for a CSA pick-up point at Colby-Sawyer College.
- Conducted a petition to increase the amount of local food in the Colby-Sawyer College dining hall, and collected 726 signatures out of approximately 1,200 students.
- We also conducted a SWOT analysis of the Kearsarge Area Food System and based recommendations on this.

Throughout the course of the project, our team was inspired by local farmers, and their extensive knowledge and experience. Without their support this project would not have been possible. This report serves as a guide for the Kearsarge Regional Food System to take advantage of opportunities identified, however it is up to the stakeholders to ensure that this report is utilized and implemented.
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Heather & Jamie Robertson of Contoocook Creamery at Bohanan Farm
Gail Persichino of Crimson Maple Farm
Theresa & Peter Mueller of Dancin’ Apple Farm
Vido Seaver of Fall Dog Farm
French Pond Orchard
Tim & Amy Bassett of Gould Hill Farm
Donna Abair of Hazzard Acre Farm
Peter Zac of Highland Lake Apple Orchard

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Ted Jarvis of Black Bear Vineyard
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Freedom Hill Farm
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Ed Epson of Henwyn Farm
Adam Crete of Highway View Farm
Marc Moran of Hopewell Farm
Bob & Sam Bower & Jennifer Ohler of Kearsarge Gore Farm
Arthur Mountain of Mountain Farm
Lorna Carlisle & Ray Dreary of North Of Concord Farm
Ruth & Derek Owen of Owen Farm
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Len Buxton of Porkside Farm
Mark Cowdrey of Ragged View Farm
Jim & Sue Richardson of Richardson Farm
Roger & Carolyn Keilig of Rollins Road Apiary
Yvonne Hall of Siskagee Goat Dairy
Todd Richardson of Star Lake Farm
The Family of Stonynook Farm
Kat Darling of Two Mountain Farm
Ben Kezar of Valley View Maple Farm
Phil & Donna Sprague of Huntoon Farm
Ken Marshall of Marshall Farm
Steve Paquin of Musterfield Farm
Margaret Doscher & Doug Glines of Odey Farm
The Family of Peak Orchard Farm
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## Appendices

### Appendix A

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<td>Courser Farm</td>
<td>Odey Farm</td>
<td>Vegetable Ranch</td>
</tr>
<tr>
<td>Crimson Maple Farm</td>
<td>Owen Farm</td>
<td>Warner River Organics</td>
</tr>
<tr>
<td>Cutting Farm</td>
<td>Peak Orchard</td>
<td>Webster Ridge Farm</td>
</tr>
<tr>
<td>Dancin’ Apple Farm</td>
<td>Phoenix Hill Farm</td>
<td>Work Song Farm</td>
</tr>
<tr>
<td>Fairhaven Farm</td>
<td>Pine Lane Dairy</td>
<td>Wychwood Farm</td>
</tr>
<tr>
<td>Fall Dog Farm</td>
<td>Porkside Farm</td>
<td>Yankee Farmer's Market</td>
</tr>
<tr>
<td>Freedom Hill Farm</td>
<td>Pustizzi Fruit Farm</td>
<td></td>
</tr>
</tbody>
</table>

103
Appendix B1

1. Which carrot do you prefer?

2. Why? Based on: (Circle top 3)
   a. Appearance
   b. Color
   c. Aroma
   d. Flavor
   e. Texture
   f. Other

3. What are some important factors you consider when buying food? (Rank 1 to 7, 1 being most important, 7 being least important)
   
   _ Price   _ Local
   _ Organic _ Quality
   _ Freshness _ Variety
   _ Store Location

4. Where do you buy your food? (Rank on volume purchased, 1 being most volume purchased)
   
   _ Supermarket _ Convenience Store
   _ Farmers’ Market _ Farm Stand
   _ CSA _ Coop
   _ Other
Appendix B2

1. What town do you live in?

2. What is your age?
   a. Younger than 20
   b. 20-34
   c. 35-54
   d. 55-64
   e. 65 +

3. How many people live in your household?
   a. 1
   b. 2-3
   c. 4+

4. What is your definition of local food?
   *Food that's produced within:*
   a. 25 miles
   b. 100 miles
   c. NH
   d. New England

5. Do you perceive local food as being more expensive than store bought non-local food?
   a. Yes
   b. No

6. Do you perceive local food to be superior in quality to store bought non-local food?
   a. Yes
   b. No

7. What are some important factors you consider when buying food?
   (Rank top 3)
   _ Price
   _ Local
   _ Organic
   _ Quality
   _ Freshness
   _ Store location
   _ Variety

8. Where do you buy your food?
   (Rank on volume purchased, 1 being most volume purchased)
   _ Supermarket
   _ Convenience Store
   _ Farmers’ Market
   _ Farm Stand
   _ CSA
   _ Coop
   _ Other _____________

9. What are some barriers you encounter when buying local food?
   a. Price
   b. Location
   c. Availability
   d. Does not apply
   e. Other _____________

10. Do you grow or raise your own food?
    a. Yes
    b. No
    If yes, what percentage of your food do you grow__________
## Appendix C

<table>
<thead>
<tr>
<th>Farm Information</th>
<th>Meat</th>
<th>Vegetables</th>
<th>Fruit</th>
<th>Other</th>
</tr>
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<tbody>
<tr>
<td><strong>Andover</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Two Mountain Farm, 76 Shaw Hill Rd, Andover NH, <a href="mailto:2mtnfarm@gmail.com">2mtnfarm@gmail.com</a></td>
<td></td>
<td>arugula, spinach, lettuce, chard, kale, salad mixes, asian greens, beets, radishes, carrots, potatoes, squash, tomatoes, tomatoes, cucumbers, squash, zucchini, cut flowers, garlic, peppers, beans, cabbage, corn, onions, pumpkins, snap peas</td>
<td>blueberries, raspberries</td>
<td>Eggs</td>
</tr>
<tr>
<td>Tucker Mountain Maple Co-op, 224 Tucker Mtn Rd, Andover NH, (603) 735-5602</td>
<td></td>
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<td>Honey, Maple syrup</td>
</tr>
<tr>
<td>Wychwood Farm, 42 Shaw Hill Rd, Andover NH, (603) 496-2783</td>
<td></td>
<td></td>
<td></td>
<td>Maple syrup</td>
</tr>
<tr>
<td>Freedom Hill Farm, 111 Salisbury Highway, Andover NH (603) 735-4187</td>
<td>Goats, Chickens</td>
<td></td>
<td>Fruit</td>
<td>Eggs</td>
</tr>
<tr>
<td>Fall Dog Farm, 334 Depot Rd, Andover NH (603) 470-8444</td>
<td>Goats, Pigs, Beef, Chickens</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ragged View Farm, Bradly Lake Rd, Andover NH, (603)724-7511, <a href="mailto:mark@raggedviewfarm.com">mark@raggedviewfarm.com</a></td>
<td>Pork</td>
<td></td>
<td></td>
<td>Maple Syrup (through tucker mountain)</td>
</tr>
<tr>
<td><strong>Boscawen</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avaloch Farms 33 Hardy St. 290-7723 PYO</td>
<td></td>
<td></td>
<td>blueberries</td>
<td></td>
</tr>
<tr>
<td>Ledge Top Sugar House 25 Oak St. 753-4973 <a href="mailto:ledgetopsh@myfairpoint.net">ledgetopsh@myfairpoint.net</a></td>
<td></td>
<td></td>
<td>maple syrup, BBQ sauce</td>
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<tr>
<td>Highway View Farm 100 River Rd. 796-2893</td>
<td>beef</td>
<td>sweet corn (in the summer)</td>
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<td>milk</td>
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<tr>
<td>Farm Name</td>
<td>Address/Location</td>
<td>Products</td>
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<tr>
<td>Apple Ridge</td>
<td>151 Water St. 796-2654</td>
<td>Apples, Beans, Peas, Squash, Crocifix Crops, Brussels Sprouts, Cauliflower, Broccoli, Potatoes, Mints, Chives, Onions, Oregano, Sage, Rosemary, Parsley, Cilantro and Basil</td>
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<tr>
<td>Phoenix Hill Farm</td>
<td>322 High Street</td>
<td>Pork</td>
<td></td>
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</tr>
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<td>Richardson's Farm</td>
<td>170 Water St. 796-2788</td>
<td>seasonal vegetables</td>
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</tr>
<tr>
<td>Corn Hill Farm</td>
<td>130 Corn Hill Road</td>
<td>Venison, Chicken</td>
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<td>Bradford</td>
<td></td>
<td></td>
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<tr>
<td>Battles Farm</td>
<td>328 Center Rd., 938-5668</td>
<td>Beefalo, chicken, pork, turkey, lamb</td>
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<td></td>
</tr>
<tr>
<td>Stoneridge Farm</td>
<td>330 Cressy Rd., 938-6186,</td>
<td>USDA certified organic vegetables</td>
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<tr>
<td>a stoneridgeorganics.com</td>
<td>Maple syrup</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Contoocook/Hopkinton</td>
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<td></td>
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<tr>
<td>Crimson Maple Farm</td>
<td>888 Kearsarge Ave., 340-1600,</td>
<td>pork, chicken, duck</td>
<td></td>
<td></td>
</tr>
<tr>
<td><a href="mailto:gail@parkmodelplus.com">gail@parkmodelplus.com</a></td>
<td>seasonal vegetables</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>chicken and duck eggs</td>
<td></td>
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</tr>
<tr>
<td>Gage Hill Sugar Shack</td>
<td>328 Gage Hill Rd., 746-4347,</td>
<td>mapel syrup and other maple products</td>
<td></td>
<td></td>
</tr>
<tr>
<td><a href="mailto:theodore.story@comcast.net">theodore.story@comcast.net</a></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Random Hills Farm</td>
<td>330 Maple St., 344-6913</td>
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<tr>
<td>Russell's Certified Organic Blueberries</td>
<td>289 Maple St., 344-6913</td>
<td>garlic (10 varieties)</td>
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<td></td>
<td>blueberries</td>
<td></td>
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<tr>
<td>Stonynook Farm</td>
<td>47 Emerson Hill, 746-3874</td>
<td>pesticide-free corn, vegetables</td>
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<td></td>
</tr>
<tr>
<td>Up Sheeps' Creek</td>
<td>2597 Hopkinton Rd., <a href="mailto:bbrissonn@live.com">bbrissonn@live.com</a></td>
<td>pig, lamb, duck, chicken</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>squash, greens, beans, kale</td>
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<td></td>
<td></td>
<td>apples, pears, plums, cherries, kiwis, grapes</td>
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<tr>
<td>Farm Name</td>
<td>Address</td>
<td>Contact Information</td>
<td>Products/Services</td>
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<td>-----------------------------------</td>
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<tr>
<td>Gould Hill Farm 656 Gould Hill Road</td>
<td>Contoocook 746-3811</td>
<td><a href="mailto:tim@gouldhillfarm.com">tim@gouldhillfarm.com</a>  <a href="http://www.gouldhillfarm.com">http://www.gouldhillfarm.com</a></td>
<td>Apple orchard, baked goods, vegetables.</td>
<td></td>
</tr>
<tr>
<td>Gage Hill Sugar Shack 328 Gage Hill Road</td>
<td>Contoocook 746-4347</td>
<td><a href="mailto:theodore.story@comcast.net">theodore.story@comcast.net</a></td>
<td>Maple syrup, maple sugar, cream, barbeque sauce.</td>
<td></td>
</tr>
<tr>
<td>Contoocook Creamery/Bohanan Farm 945 Penacook Road</td>
<td><a href="mailto:info@contoocookcreamery.com">info@contoocookcreamery.com</a>  Contoocook 746-4633</td>
<td></td>
<td>Dairy, bottled milk and cream. Farm is in a conservation easement.</td>
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</tr>
<tr>
<td>Fairhaven Farm 743 Hopkinton Road</td>
<td>Hopkinton 224-0214</td>
<td></td>
<td>Pesticide-free corn and veggies</td>
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<tr>
<td>Pine Lane Dairy Farm 790 Main Street</td>
<td>Contoocook 746-5240</td>
<td></td>
<td>Dairy and hay</td>
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<tr>
<td>Gould Hill Farm, 656 Gould Hill Rd.</td>
<td>746-3811, <a href="http://www.gouldhillfarm.com">www.gouldhillfarm.com</a>, barnstore</td>
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<td>apples (85 varieties), peaches, plums, blueberries</td>
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<td>Fairhaven Farm, 743 Hopkinton Rd. (Rte. 202/9), 224-0214</td>
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<td>organic blueberries</td>
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<tr>
<td>Odey Farm, 81 Brockway Rd., 229-1876, <a href="mailto:dgiles3607@aol.com">dgiles3607@aol.com</a></td>
<td></td>
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<td>seasonal vegetables</td>
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<tr>
<td>Owen Farm, 580 Brockway Rd., 225-2252, <a href="http://www.owenfarm.org">www.owenfarm.org</a></td>
<td>chicken, piglets</td>
<td>pesticide-free vegetables, herbs</td>
<td>eggs</td>
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<tr>
<td>Work Song Farm Beech Hill Road</td>
<td>Hopkinton 219-0297</td>
<td><a href="mailto:worksongfarm@gmail.com">worksongfarm@gmail.com</a></td>
<td>Organic vegetables</td>
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<td></td>
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<td>Farm Name</td>
<td>Address</td>
<td>Products</td>
<td>Location</td>
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<tr>
<td>Beech Hill Farm</td>
<td>107 Beech Hill Road, Hopkinton 223-0828</td>
<td>pumpkins, corn</td>
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<tr>
<td></td>
<td><a href="mailto:rmkimball@gmail.com">rmkimball@gmail.com</a> <a href="http://www.beechhillfarm.com">http://www.beechhillfarm.com</a></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>hay, ice cream</td>
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<tr>
<td>Danbury</td>
<td></td>
<td></td>
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<tr>
<td>Haunting Whisper, Oak Ridge Rd,</td>
<td>Haunting whisper.net/contact.php</td>
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<tr>
<td>Danbury NH</td>
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<td>Wine</td>
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<td>Huntoon Farm, 46 Huntoon Rd,</td>
<td>Pork, beef</td>
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<tr>
<td>Danbury NH (603) 768-5579</td>
<td></td>
<td>Baked goods</td>
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<tr>
<td>Three J Farm, (603) 768-3400</td>
<td>Beef</td>
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<td>Henniker</td>
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<td>Henniker</td>
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<tr>
<td>Porkside Farm 3 Dodge Hill Road</td>
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<td>Newbury</td>
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<tr>
<td>Hopewell Farm, 3 South Rd. 938-</td>
<td>Pork, turkey, chicken, beef</td>
<td>Seasonal vegetables</td>
<td></td>
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</tr>
<tr>
<td>2043</td>
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<td></td>
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<tr>
<td>New London</td>
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<tr>
<td>Springlede Farm, 37 Main St, New</td>
<td>Chickens</td>
<td>sweet corn, tomatoes, lettuice, basil, spinach, kale, bok choy, carrots, onions, micro mix greens, pumpkins, potatoes, sweet potatoes, arugula, zucchini, cucumbers, winter squash, summer squash, bell peppers, broccoli, asparagus</td>
<td></td>
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<tr>
<td>London NH, 03257</td>
<td></td>
<td>raspberries, blueberries, strawbery, eggs</td>
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<tr>
<td>Salisbury</td>
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<td>seasonal vegetables</td>
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<tr>
<td>Family Heirlooms 406 Raccoon Hill Rd. 648-2510</td>
<td>seasonal vegetables</td>
<td>raw milk, eggs</td>
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</tr>
<tr>
<td>Farm Name</td>
<td>Address</td>
<td>Contact Information</td>
<td>Products</td>
<td>Other Products</td>
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<tr>
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<td>-----------------------------------------------</td>
<td>--------------------------------------</td>
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<tr>
<td>North of Concord Farm</td>
<td>77 Old Turnpike Rd. (Rte 4) 648-6183</td>
<td><a href="mailto:nofconcordfarm@yahoo.com">nofconcordfarm@yahoo.com</a></td>
<td>seasonal vegetables</td>
<td>strawberries, blueberries, eggs</td>
</tr>
<tr>
<td>Black Dog Vineyard</td>
<td>289 New Rd. 648-2339</td>
<td><a href="mailto:kelly@theblackdogvineyard.com">kelly@theblackdogvineyard.com</a></td>
<td>grapes</td>
<td></td>
</tr>
<tr>
<td>Henwyn Farm</td>
<td>108 Raccoon Hill Rd. 648-2815 <a href="mailto:epsen@gmx.com">epsen@gmx.com</a></td>
<td></td>
<td>pork, live sale pigs/piglets</td>
<td></td>
</tr>
<tr>
<td>The Barn Store</td>
<td>96 Old Turnpike Rd. (Rte 4) 648-2888</td>
<td>barnstoreofnewengland.com</td>
<td>frozen beef, lamb, bacon, sausage</td>
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</tr>
<tr>
<td>3D Farm</td>
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<td>Buffalo</td>
<td></td>
</tr>
<tr>
<td><strong>Springfield</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Star Lake Farm</td>
<td></td>
<td></td>
<td>Beer- back ribs, hamburger, delmonico steaks, hamburger patties, NY, strip steak, stew meat, tenderloin, Chicken</td>
<td></td>
</tr>
<tr>
<td>Valley View Maple Farm</td>
<td>935 New London Rd, Springfield NH</td>
<td></td>
<td></td>
<td>Maple Syrup</td>
</tr>
<tr>
<td>Hazzard Acres Farm</td>
<td>95 Hazzardoad North, Springfield NH 03284</td>
<td></td>
<td>Pigs, 12 heads currently: bacon, boneless chops, boneless loin roast, tenderloin, butt roast, pork steaks 3-4 thick, baby back ribs, spare ribs, ground pork, pork cube steaks, hams, beer bratwurst</td>
<td>Maple Syrup</td>
</tr>
<tr>
<td><strong>Sunapeee</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sutton</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cascade Brook Farm, 96 Baker Rd., 927-4013, <a href="mailto:info@cascadebrookfarm.com">info@cascadebrookfarm.com</a></strong></td>
<td><strong>100% Grass feed Black angus beef, Berkshire Pork</strong></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td><strong>Warner</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Apple Rock Farm, 366 Pumpkin Hill Rd., 456-3357, <a href="mailto:wendyhall@tds.net">wendyhall@tds.net</a></strong></td>
<td>chicken, lamb, call for availability</td>
<td>eggs</td>
<td></td>
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</tr>
<tr>
<td><strong>Beaver Meadowbrook Farm, 402 Rte 103 East, 456-6052 (call for addresses of other local syrup producers)</strong></td>
<td></td>
<td>maple syrup</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bible Hill Farm, 206 Bible Hill Rd., 456-3504, <a href="mailto:heidi_fredrick@yahoo.com">heidi_fredrick@yahoo.com</a></strong></td>
<td>chickens, pigs, pigeons tomatoes, potatoes, carrots, lettuces, kale</td>
<td>apples, pears, peaches, grapes, elderberries</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Blue Moon Berry Farm, 195 Waldron Hill Rd., 456-3822, PYO and ready-picked</strong></td>
<td></td>
<td>blueberries</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Courser Farm, 319 Schoodac Rd., 456-3521, self-serve farmstand</strong></td>
<td>corn, cucumbers, squash, pumpkins</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dancin' Apples Farm, 66 Eaton Grange Rd. East, 456-6109 (call for directions)</strong></td>
<td>seasonal vegetables</td>
<td>apples, pears, peaches eggs</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Kearsarge Gore Farm, 173 Gore Rd., 456-2319, <a href="mailto:kgfarm@tds.net">kgfarm@tds.net</a></strong></td>
<td>beef, pork, lamb certified organic vegetable, herbs</td>
<td>maple syrup</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Vegetable Ranch, 443 Kearsarge Mountain Rd., 496-6391, <a href="http://www.vegetableranch.com">www.vegetableranch.com</a>, <a href="mailto:vegetableranch@gmail.com">vegetableranch@gmail.com</a>, CSA and farmstand</strong></td>
<td>full range of certified organic seasonal vegetables</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Yankee Farmer's Market, 360 Rte. 103 East, 456-2833, <a href="mailto:yfm@tds.net">yfm@tds.net</a>., year 'round store</strong></td>
<td>buffalo, elk, venison, ostrich, chicken, turkey corn, squash, beans, tomatoes</td>
<td>local cheese, condiments, honey, syrup</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Webster</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MilkCan Corner Farm 45 Mutton Rd. 648-2268 PYO blueberries</strong></td>
<td></td>
<td>blueberries, raspberries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm Name</td>
<td>Address</td>
<td>Products</td>
<td>Contact Information</td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
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<td>---------------------------------</td>
<td></td>
</tr>
<tr>
<td>Robert's Greenhouse and store</td>
<td>1020 Long St. 648-2142</td>
<td>Pork, lam, hamburger</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warner River Organics</td>
<td>119 Dustin Rd. 746-3018</td>
<td>beef, pork, lamb, chicken</td>
<td><a href="mailto:warnerriverorganics@tds.net">warnerriverorganics@tds.net</a></td>
<td></td>
</tr>
<tr>
<td>Webster Ridge Farm</td>
<td>1482 Pleasant St. 648-2595</td>
<td>beef, pork, lamb, free-range chicken</td>
<td>websterridge.com</td>
<td></td>
</tr>
<tr>
<td>Bokaja Enterprises</td>
<td>1395 Battle St. 648-2520</td>
<td>Turkeys</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Riverfare Farm</td>
<td>301 Tyler Rd. 724-0231</td>
<td>grass fed beef</td>
<td><a href="mailto:info@riverfarenh.com">info@riverfarenh.com</a></td>
<td></td>
</tr>
<tr>
<td>Coffin Seller Vineyard</td>
<td>1224 Battle Street</td>
<td>Tomatoes, peppers, salad greens, potatoes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wilmot</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Highland Lake Farm</td>
<td>50 Maple Street, Wilmot NH,</td>
<td>Apples</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(603) 735-5058, <a href="mailto:mlloyddevans@tds.net">mlloyddevans@tds.net</a></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Appendix D

Do you want to see the Dining Hall serve more local food?

In accordance with living sustainably and linking to the outside world as stated in the strategic themes, the purpose of this petition is to enact a Colby-Sawyer College policy, which will amend that:

- 20% of all food served in the Colby-Sawyer dining hall will come from local sources.
- Local is defined by this petition as 100 miles radius.
- The policy to be implemented by beginning of fall semester 2013.

The Benefits of Local food:

- Fresh food with high nutritional content.
- You know where your food comes from.
- Reduced environmental impact.
- Supports local economy.

If you agree that the policy stated above should be implemented, then please sign below:
Works Cited


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Colleen. (2012). Kearsarge Community Presbyterian Church. (T. Burns, Interviewer)


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