

Saline County, KS

Food System Assessment

2017-2018

Report prepared by
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North Central Regional Planning Commission

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North Central Kansas FOOD COUNCIL



This report was prepared by Kolia Souza, independent consultant, on behalf of the North Central Kansas Food Council under contractual agreement with North Central Regional Planning Commission. Language used throughout this report was borrowed directly from LaClair Consulting Services.

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Executive Summary

Healthy and robust community food systems help to support and sustain healthy communities and strong local economies. The types and amounts of food that are available within a community, and the ways in which that food is presented and made available to members of the community population can exert profound influence on eating behaviors of community members and, in turn, community health outcomes. Food, and the many processes involved in producing it and eventually bringing it to a consumers' table, also generate significant economic activity and jobs within the community.

One of the key steps to understanding a community food systems' current strengths and gaps is to conduct a comprehensive assessment of the food system. This report summarizes the results of an assessment of the Saline County regional food system. It brings together data and information from numerous secondary data sources to create a description of the current food system in the region. Highlights of assessment findings include:

Demographics. Saline County is located in the southwestern quadrant of the North Central Regional Planning Commission (NCRPC) 12-county service area and is bordered by four of the remaining 11 counties in the NCRPC region. The total population for Saline County is approximately 55,334 and the retiree age subpopulation is higher compared to that of Kansas. Overall poverty rates are in line with the state average, whereas the child poverty rate is slightly higher than average.

Farming and Food Production. In 2012, there were 674 farms operating in Saline County, on about 364,468 acres of land. Farming in the region is dominated by the production of grain crops, hay and beef cattle. In 2012, the average age of Saline County farm operators was 58.1 years. Average farm incomes in the region were generous in 2012 as compared to the state, with 39.3 percent of Saline County farms reporting net operating losses in 2012. Approximately 38 percent of principal farm operators in Saline County reported that their principal occupation was something other than farming, and nearly one-third (32.8 percent) worked 200 days or more off the farm. Although farming in the region is predominantly commodity crops and livestock, there are a small number of farms growing fruits and selling their farm products directly to local consumers. In 2012, Saline County reported having one orchards and five farms harvesting fruit. Direct sales to individuals were \$46,000 in 2012.

Food Processing and Distribution Infrastructure. There is currently one meat processor operating in Saline County in addition to one distributor and three wholesale suppliers. There is, however, no manufacturing or warehouses.

The Retail Food Environment. Many rural areas of Kansas are struggling to retain their local grocery stores. In Saline County, there were four grocery stores in operation in 2017. In addition to these stores, grocery items are also sold by two supercenters, two meat markets, and several dollar and convenience stores. There were three farmers' markets in operation. According to 2016 data, the county is also served by 105 eating and drinking establishments, 48 of which are fast food venues.

Access to Healthy Foods. Across the nation, Americans' dietary intakes are poorly aligned with current dietary guidelines. Kansans are no exception. In 2015 in Saline County, 42.9 percent of adults were consuming fewer than one serving of fruits one time per day and 22.3 percent of adults were consuming fewer than one serving of vegetables once per day. Consumer expenditure data suggest that about 38 percent of all food expenditures by Saline County residents is spent on food prepared and consumed away from home.

Consumer Eating Behaviors. In Saline County, there are residents that lack ready access to full-service grocery stores that offer healthy food options. In 2015, there were three census tracts identified within Saline County that met the definition of a food desert, meaning that a substantial portion of the tract's population was low income and lived more than 1 mile from a grocery store if in an urban area, or more than 10 miles from a store if in a rural area. Approximately 3,635 people were low-income and had limited access to a grocery store. In addition to access challenges created by distance from a grocery store, there are Saline County residents that lack access to enough healthy food because they cannot afford to buy it. In 2016, an estimated 13.2 percent of Saline County residents (7,320 individuals) struggled just to get enough food, a condition referred to as 'food insecurity.' About one in five (19.8 percent) children lived in households that were food insecure. Additionally,

56.9 percent of Saline County K-12 students qualify for free or reduced-price school meals, and 5,806 individuals in Saline County receive food assistance through the SNAP program each month.

Food Waste. National research suggests that as much as 40 percent of all food grown in the United States is wasted, with a substantial share of that attributed to household/consumer waste. Although local-level measurements of food waste were not available, extending national per capita waste estimates to local population numbers suggest that annual food waste in Saline County might be in the neighborhood of 16 million pounds, with a value of \$20.5 million.

Economic Impact. Agriculture and food represent major sectors of the economy, nationally and at the local level. Consumers in Saline County spend about \$143.2 million annually on food purchases. Economic estimates from the Kansas Department of Agriculture indicate that agriculture and food-sector businesses in the county employ about 4,732 people and contribute \$1.13 billion to the local economy. Farm product sales in the region totaled approximately \$84.4 million in 2012. In addition to farm product sales, economic activity is also generated by income received from government farm payments and federal food assistance programs and retail food sales.

Conclusion

The information presented in this report highlights many current strengths and gaps in the current food system for Saline County. The region has a strong agricultural presence, with access to farmland and adequate water supplies. Although agriculture is predominantly focused on the production of grains, hay and beef, there are a promising, albeit small, number of smaller-scale producers growing and producing foods for direct sale to community residents. The presence of Kansas State University, the state's land grant university, offers food producers and entrepreneurs in the region the opportunity to take advantage of a wealth of available scientific expertise and technical assistance. There is also access to retail grocery and farmers markets within Saline county.

Despite all those strengths, however, there are still gaps and opportunities to improve and enhance the local food system. Many farmers are nearing retirement age without younger ones stepping in fill the void, and high land prices and low farm profitability present significant challenges to the small numbers of younger people who would like to become farmers. Local production of fruit, poultry and eggs, pork, and dairy products fall significantly short of local consumption volumes. The vast majority of community residents do not eat the recommended amounts of vegetables and fruits. Approximately 7,320 Saline County residents are food-insecure (or struggle to get enough food), because they lack the money to buy it. National research suggests that as much of 40 percent of the food grown in the United States is wasted. If this pattern holds true in the Saline County area, more than 16 million pounds of food is wasted each year.

These are just a few examples of current assets and gaps; readers of this report will likely identify others. While this report does not address or include every possible measure related to the local food system, it has been structured to provide a systems-level description that touches upon each of the major sectors within the food system, using data that are either readily available or could be collected with reasonable effort within the community setting. Because of that breadth of scope, the depth of information on any one subject is necessarily limited to prevent the assessment process and report from becoming totally unmanageable. It is likely that there will be some areas where the information included will generate interest or raise additional questions that are not answered by the brief topical summaries included in the report – those questions may identify areas the North Central Regional Planning Commission or the North Central Kansas Food Council will wish to conduct further exploration in the future.

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Introduction

Food is a basic human need. Healthy diets that provide appropriate levels of calories and nutrients are essential for good health and active lifestyles. In the United States, there is a plentiful supply of food to meet the nutritional requirements of the population. Despite that plentiful supply, however, many Americans do not eat balanced and healthy diets. Obesity rates have steadily increased over the past several decades. At the same time, a significant segment of the population worries about not having access to enough food. The reasons for this disconnect are complex. Individual eating choices and behaviors are influenced by a variety of factors including



cultural backgrounds, taste, food availability and prices, food marketing, food preparation requirements and time constraints, nutritional knowledge and more. In recent years, a growing number of research studies have shown that the food context or environment in which an individual lives can exert profound influence upon that person's eating behaviors. This growing awareness of the importance of community-level food environments, coupled with emerging concerns about food production methods and nutritional quality of available foods, has resulted in growth in the numbers of community-level food policy councils established for the purpose of building more robust and self-sustaining local food systems that offer access to healthy food choices to all community members.

For many newly-established food policy councils or food coalitions, completion of a community food assessment (CFA) is an important early step. A CFA is a process that systematically examines a broad range of community food issues and assets, with the focus usually at a systems level. The purpose of a CFA is to provide an objective basis for developing action plans to build and strengthen the community's food system. A community food assessment can be an important tool to gain a deeper understanding of the community's current food environment. The CFA can help in identifying what is currently working well and where there are gaps or opportunities to strengthen the food system and ensure that all members of the community have access to healthy food options.

The scope and content of a community food assessment may vary from one community to the next depending upon the interests, priorities, and resources of the community stakeholders who commission the process. While some assessments may be comprehensive and include all aspects of a food system, others may be more narrowly focused on specific aspects of the overall food system. This report summarizes findings of the first Saline County food system assessment. Consultant Kolia Souza was contracted by North Central Regional Planning Commission and the North Central Kansas Food Council in October 2017 to conduct the CFA.

The Concept of a Food System

Most, if not all, Community Food Assessments are structured around the concept of food systems, taking a systems-level perspective on the ways that food moves and cycles through a community. In the words of the Oregon Food Bank, a food system is “the sum of all activities required to make food available to people.” A food system includes all the processes and infrastructure that are involved in feeding a population: growing or food production, harvesting, processing and packaging, transportation and distribution, marketing and retail sales, consumption, and disposal of food-related wastes. A simplistic model of a food system is shown in the figure here. While not explicitly depicted in this illustration, a food system would also include all the inputs needed and outputs generated in each step of the cycle, such as natural resources, human resources and labor, and economic impacts. Considerations such as access to healthy food options within a community, and food justice and equity issues are also frequently included in a Community Food Assessment. A food system operates within the context of its community, and may be influenced by the social, political, and economic environments.

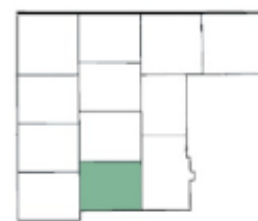


Food Assessment Methodology

This community food system assessment was conducted using secondary analysis of existing data from a variety of publicly-available sources. Data sources used extensively include the U.S. Census, the U.S. Census of Agriculture, and various business and marketing resources. Data sources are noted in the body of the report, as individual measures are presented.

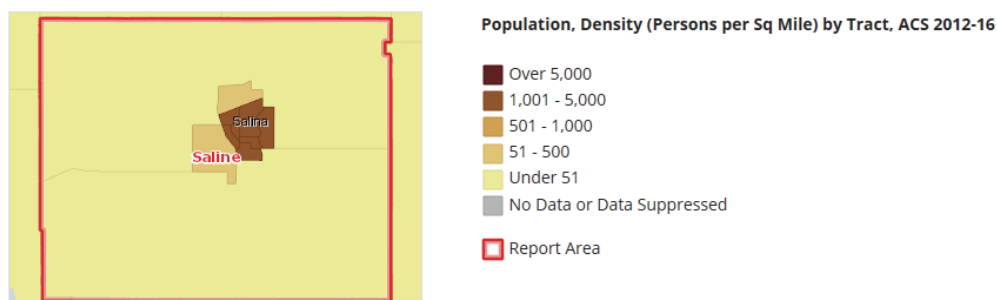
Demographics

Saline County is located in the southwestern quadrant of the North Central Regional Planning Commission 12-county service area. According to U.S. Census Bureau American Community Survey 2017 estimates, its largest city, Salina, has a population of approximately 55,334. Salina accounts for approximately 85 percent of the county's population. In addition to Salina, the smaller cities of Brookville, Falun, Smolan, Assaria, New Cambria, gypsum, and Glendale are within the county as well as numerous townships.



Population

According to U.S. Census Bureau American Community Survey 2013-17 5-year estimates, a total of 55,334 people lives within the 895 square-mile land area of Saline County. Saline County residents account for 40.5 percent of the north central region's 12-county area. Population density is 77 people per square mile. Between the 2000 and 2010 decennial census enumerations, Saline County's population increased by 2,009 persons, an increase of approximately 3.8 percent in overall population.



Geographic Area	Total Population, 2000 Census	Total Population, 2010 Census	Total Population Change, 2000-2010	Percent Population Change, 2000-2010
Saline County	53,597	55,606	2,009	3.75%
Kansas	2,688,419	2,853,118	164,699	6.13%
United States	280,405,781	307,745,539	27,339,758	9.75%

Data Source: U.S. Census Bureau, American Community Survey, 2013-2017. Source geography: Tract.

Race/Ethnicity of the Population

The population in Saline County is culturally homogenous, with 87.2 percent of residents being White or Caucasian. About 10.9 percent also self-identified as Hispanic or Latino ethnicity between 2013 and 2017. Although individuals who identify as Hispanic or Latino may be of any race, the majority in Kansas would be White. Compared to Kansas race/ethnicity population statistics, Saline County reflects only a slightly lower level of overall cultural diversity.

Total Population by Race Alone, Percent

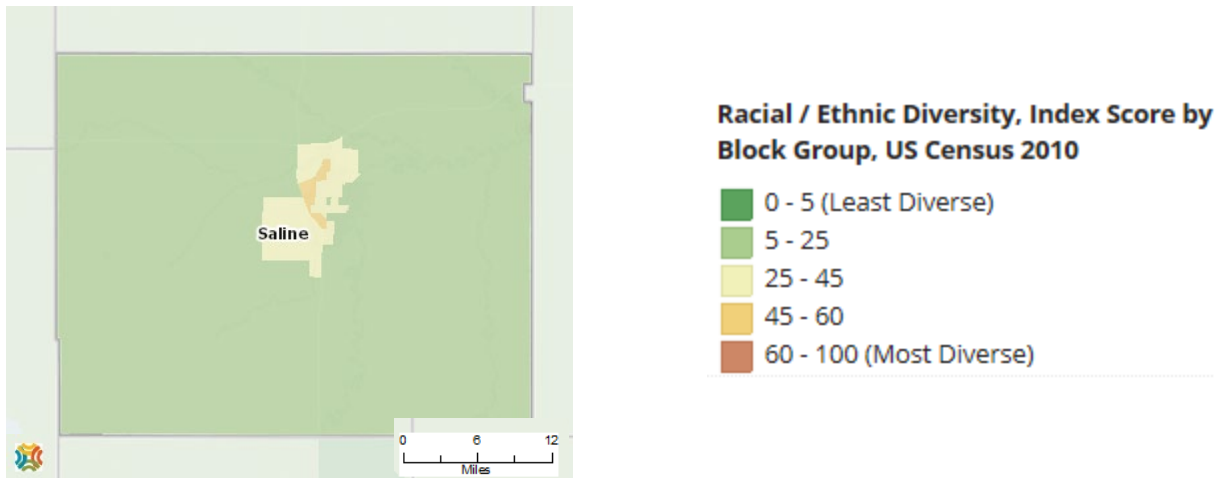
Geographic Area	White or Caucasian	Black or African American	Asian	Native American/ Alaska Native	Native Hawaiian/ Pacific Islander	Some other race	Multiple races
Saline County	48,233	1,711	1,325	193	23	1,830	2,019
Kansas	2,391,044	167,864	67,762	28,150	2,238	110,127	85,933
United States	234,370,202	40,610,815	17,186,320	2,632,102	570,116	15,533,808	10,081,044

Data Source: U.S. Census Bureau, American Community Survey, 2013-2017. Source geography: Tract.

Total Population by Ethnicity Alone

Geographic Area	Total Population	Hispanic or Latino Population	Percent Population Hispanic or Latino	Non-Hispanic Population	Percent Population Non-Hispanic
Saline County	55,334	6,038	10.9%	49,296	89.1%
Kansas	2,853,118	334,860	11.5%	2,568,960	88.5%
United States	321,004,407	56,510,571	17.6%	264,493,836	82.4%

Data Source: U.S. Census Bureau, American Community Survey, 2013-2017. Source geography: Tract.

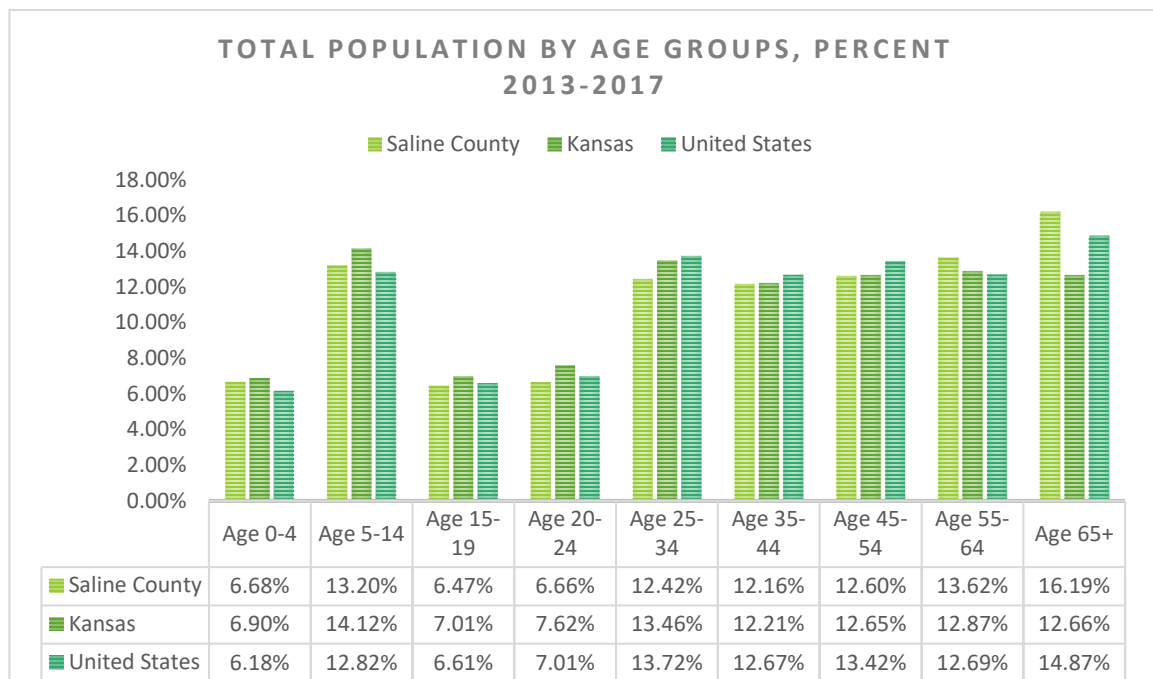


Age of the Population

The retiree age population (age 65+ years) of Saline County is higher than that of Kansas or the United States. Conversely, its young adult population (age 20-34 years) is slightly lower than the state or nationally. Between 2013 and 2017, the median age of Saline County residents was 37.8 years, compared to 36.3 years for all Kansans. Approximately 29.8 percent of Saline County residents were 55 years or older as compared to 25.5 percent of the Kansas population. About 19.1 percent of Saline County residents were age 20-34 years as compared to 21.1 percent of all Kansans.

Median Age

Geographic Area	Total Population	Median Age
Saline County, KS	55,334	37.8



Data Source: US Census Bureau, American Community Survey, 2013-2017. Source geography: Tract

Households with Children

According to 2013-2017 American Community Survey estimates, 25.8 percent of all occupied households in Saline County were family households with one or more child(ren) under the age of 18. This is lower than the statewide proportion of 31.7 percent.

Geographic Area	Total Households	Total Family Households	Families with Children (under age 18)	Families with children (under age 18), percent of total households
Saline County	24,350	13,963	6,276	25.77%
Kansas	1,121,943	735,106	355,887	31.70%
United States	135,393,564	78,298,703	37,171,726	27.45%

Data Source: U.S. Census Bureau, American Community Survey, 2013-2017. Source geography: Tract

Geographic Mobility

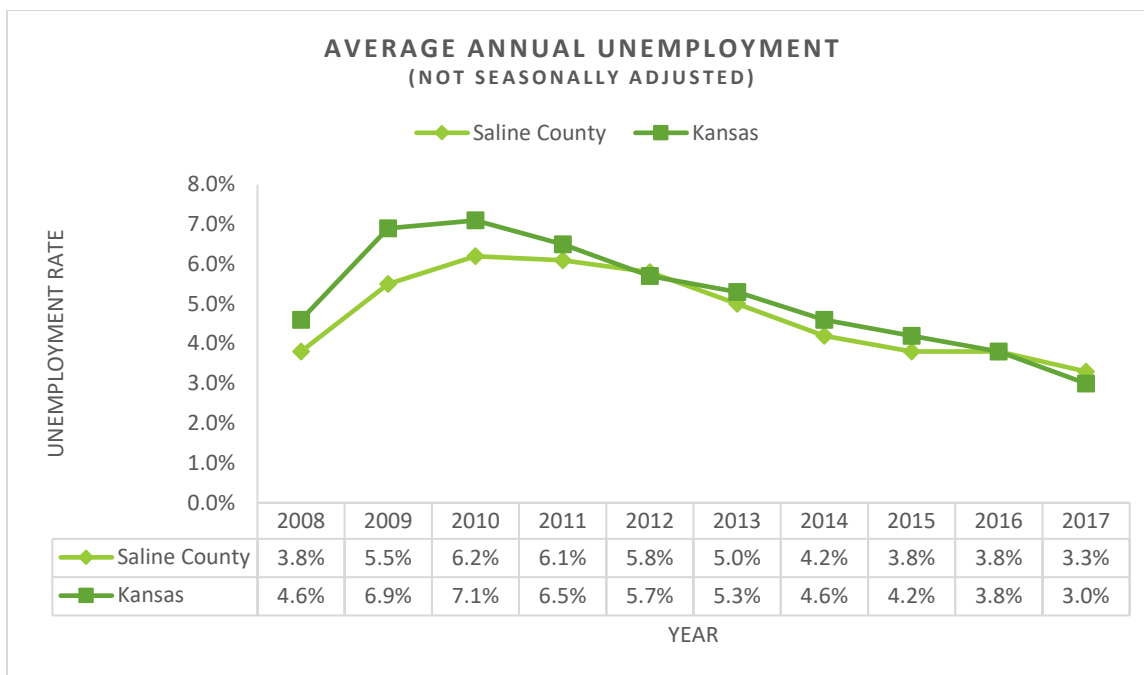
The Saline County population is slightly more transient than Kansas as a whole, or the national population. According to the American Community Survey estimates, approximately one percent of the Saline County population relocated outside the area between July 2016 and July 2017, compared to less than half a percent of all Kansans. (Residents who moved to different households within the county are not included in this measure).

Geographic Area	Total Population	Population In-Migration	Percent Population In-Migration
Saline County	55,334	(-550)	-0.99%
Kansas	2,853,118	(-40,572)	-0.28%
United States	321,004,407	7,233,626	0.35%

Data Source: U.S. Census Bureau, American Community Survey, 2013-2017. Source geography: Tract

Unemployment

During 2017, the estimated unemployment in Saline County 3.3 percent, compared to 3 percent statewide. Apart from the year 2012, the Saline County unemployment rate remained lower than the statewide unemployment rate from 2008 to 2015. Increasing unemployment rates from 2009 to 2011 may be due to residuals from the 2008 recession. Unemployment rates consider only working-age adults who are actively seeking employment; those that are not currently in the workforce or have given up trying to find jobs are not reflected in these statistics.



Poverty

Poverty is a condition defined by household income levels that are insufficient to support a modest standard of living. In the United States, the Census Bureau sets annual poverty level thresholds, based upon household size and income levels. These poverty thresholds are used to monitor poverty conditions in the U.S. and to define eligibility for numerous social welfare programs. In 2017, Federal Poverty Levels (FPLs) were determined as show in the table at the right.

Household Size	Income
1	\$12,060
2	\$16,240
3	\$20,420
4	\$24,600
5	\$28,780
6	\$32,960
7	\$37,140
8	\$41,320

Overall rates of poverty in Saline County were estimated at 12.6 percent of the population during 2017, a rate that is on par with the statewide rate of 12.8 percent. Among children age 0 to 17 years, 17 percent of Saline County children lived in poor households, compared to 16.4 percent statewide. The median household income in Saline County was \$49,728, which is below the state median household income of \$55,477.

Percent in Poverty, 2017

Geographic Area	Percent in Poverty, all ages	Percent in Poverty, age 0-17	Median Income
Saline County	12.6%	17.0%	\$49,728
Kansas	12.8%	16.4%	\$55,477
United States	14.6%	20.3%	\$57,652

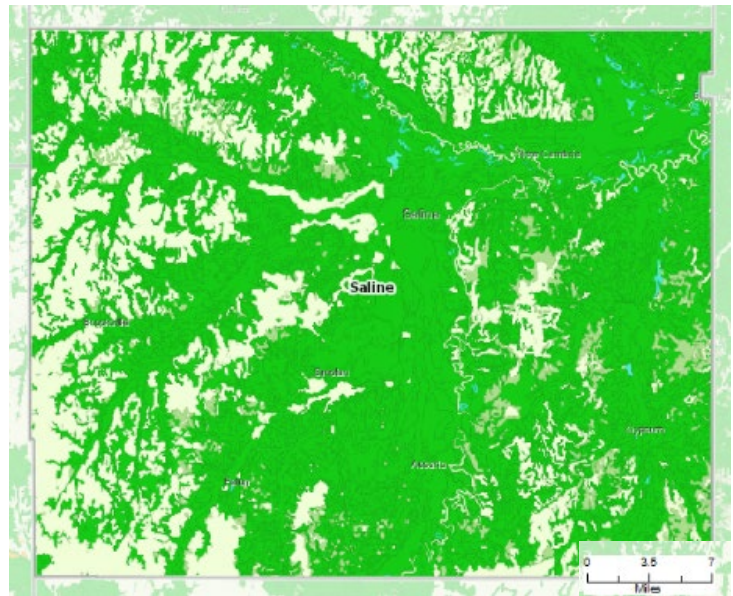
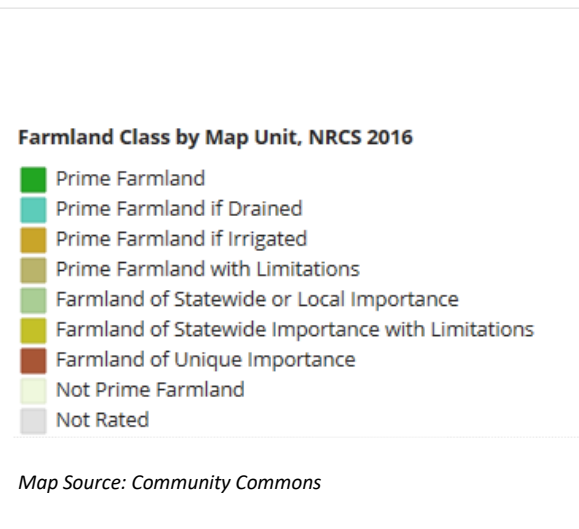
Data Source: U.S. Census Bureau, American Community Survey 2013-2017. Source geography: Tract.

Natural Resources

Agriculture and food production are highly dependent upon having access to sufficient land, high-quality soils, and water to support crop or livestock production. This section examines the availability and use of these natural resources as it relates to food production.

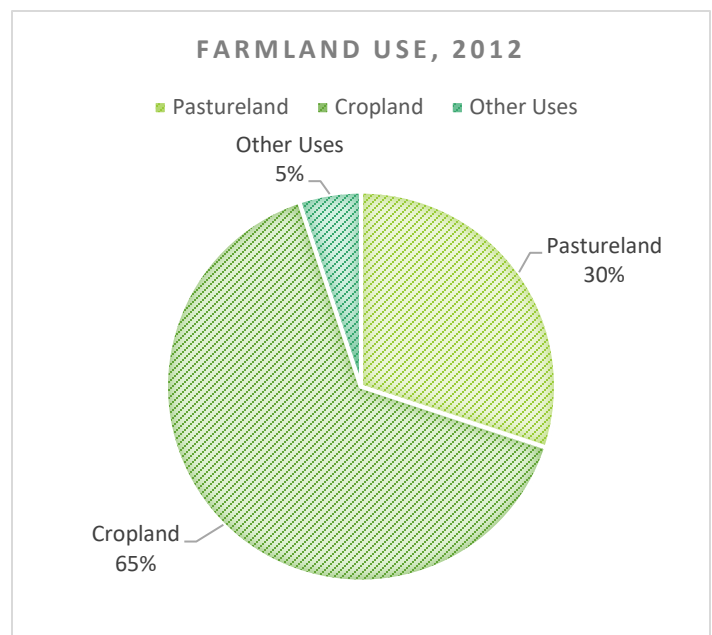
Land Availability and Use

Saline County boundaries enclose an area approximately equal to 720 square miles, or 460,947 acres. Of that, 364,468 acres (79.1 percent) was in use for farming in 2012. The map below illustrates the locations of prime farmlands in Saline County and the region, regardless of their current use.



Farmland in Saline County is used primarily for cropland (64.8 percent) and pastureland (30.1 percent). The chart at the right shows how farmland and croplands in Saline County were being utilized in 2012.

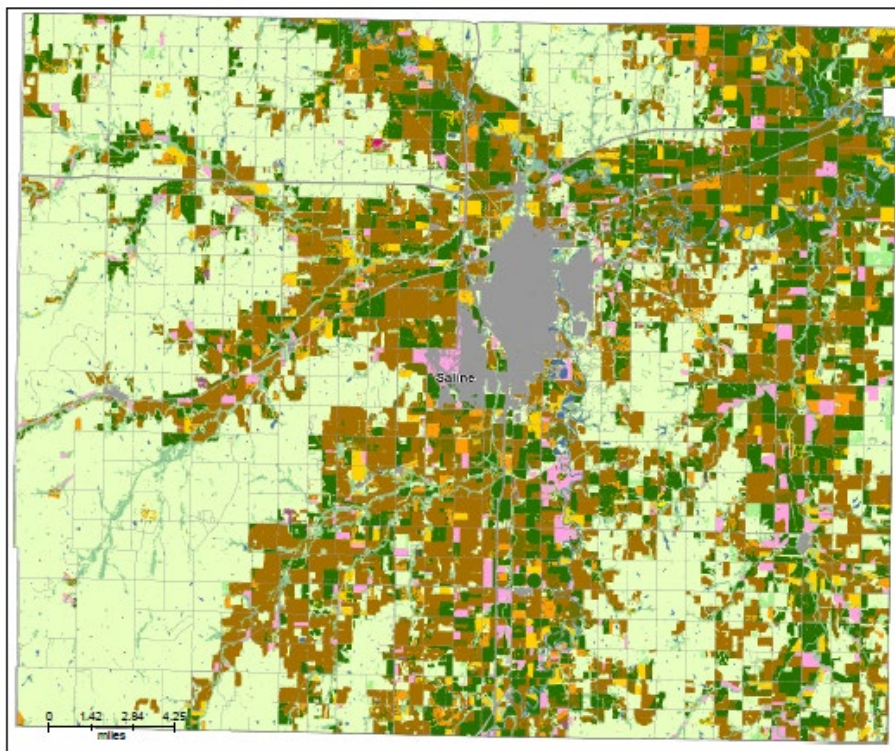
The table on the following page details Saline County land use. Maps show the locations where various types of crops were under production during 2017.



County Cropland Data, 2012

Geographic Area	Total Cropland Acres	Total Harvested Cropland	# of Farms with Cropland	# of Farms with Harvested Cropland	Idle Cropland or used for cover crops but not harvested or grazed, in acres	Cropland – summer fallow, in acres	Other Pasture and grazing Land that could be used for crops, in acres	Land enrolled in CRP, WRP, or CREP, in acres
Saline County	236,242	215,740	603	502	13,505	2,291	2,249	12,306

Data Source: U.S. Census of Agriculture, 2012



Map Source: USDA, National Agricultural Statistics Services, Cropscape System, <https://nassgeodata.gmu.edu/CropScape/>

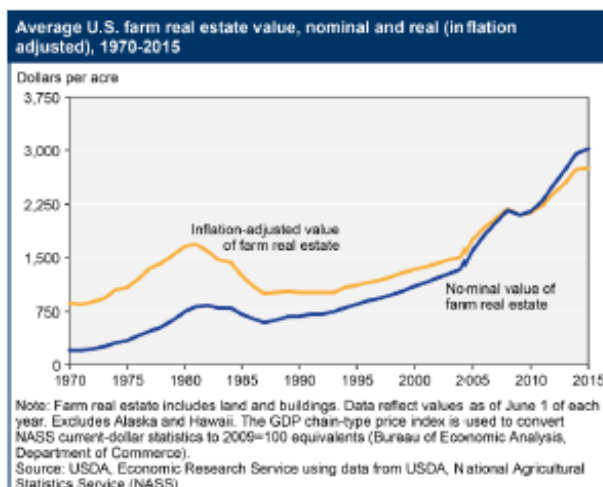
Land Cover Categories (by decreasing acreage)

AGRICULTURE*

- Grass/Pasture
- Winter Wheat
- Soybeans
- Dbt Crop Win/Whl/Soybeans
- Corn
- Alfalfa
- Sorghum
- Other Hay/Non Alfalfa
- Dbt Crop Win/Whl/Sorghum
- Oats
- Fallow/Idle Cropland
- Triticale
- Barley
- Sunflowers
- Rye
- Millet

NON-AGRICULTURE**

- Deciduous Forest
- Developed/Open Space
- Developed/Low Intensity
- Open Water
- Developed/Medium Intensity
- Developed/High Intensity



Land Values

Access to land is essential for farming operations, and land holdings represent a significant asset on the farm balance sheet. When land values become too high, however, there may be negative impacts on the local food system. When land values are high and farming incomes are low, farm owners may be tempted to sell off land and essentially “cash out”, taking the capital gains from the high land prices. High land prices may also be a barrier for new farmers that lack the capital needed to purchase good farmland. Nationally, farmland values have risen steadily since the mid-1980s.

Farmland values vary significantly by location and may be influenced by factors such as the general economy, local farm economies, policies, and development pressures.

Within the state of Kansas, there is significant variation in farmland values by region and by county. Values are generally higher for cropland than pastureland, with irrigated croplands bringing higher prices than non-irrigated lands.

Kansas Farmland Values (\$/ acre), 2016*

Geographic Area	Non-irrigated Cropland	Irrigated Cropland	Pasture
Saline County	\$2,604	---	\$1,874
Kansas	\$2,398	\$3,400	\$1,726

NOTE: Missing estimates for irrigated values are due to insufficient observations of irrigated land sales in the previous three years.

*Values shown are for bare land, minimum 40 acres in size. Values are estimated by the Kansas Property Valuations Department.

Data source: Taylor, 2017c

Estimated Cash Rental Rates (\$/acre), 2016

Geographic Area	Non-irrigated Cropland	Irrigated Cropland		Pasture
		Tenant-owned	Landowner-owned	
Saline County	\$61.50	---	---	---
Kansas (avg.)	\$60.94	\$65.33	\$89.50	---

Data Source: USDA NASS, Census of Agriculture via Taylor, 2017a, 2017b

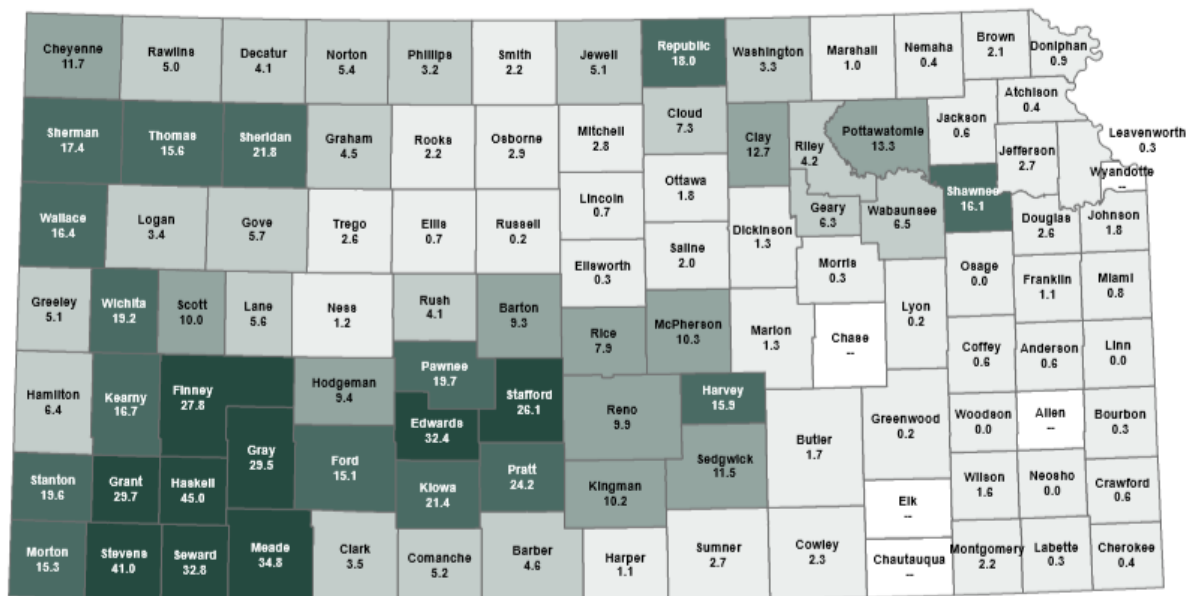
Water

In addition to quality soils, water is another primary resource necessary to support crop and livestock production. In Western Kansas, where rainfall is less abundant and much of the water used in agriculture is obtained from aquifers, declining aquifer levels has become a significant concern. Eastern Kansas counties typically experience higher annual precipitation levels and are less dependent upon irrigation and surface or groundwater reservoirs for agricultural needs.

Irrigated Farmland in the Saline County Region

A small percentage of farms (approximately 10 percent) utilize irrigation in the state. Saline County farm irrigation is significantly lower than the state average at two percent. The table below shows the number of farms which used irrigation in 2012 and the amount of acreage that was irrigated.

Percent of Cropland Irrigated in Kansas, by County, 2012



Source: Institute for Policy & Social Research, The University of Kansas; data from U.S. Department of Agriculture, 2012 Census of Agriculture.

Double dash (--) indicates withheld to avoid disclosing data for individual farms.

Percent of Cropland Irrigated

State: 10.1

0.0 - 2.9 3.0 - 7.3 7.4 - 13.3 13.4 - 24.2 24.3 - 45.0

Farms and Irrigation Use, 2012

Geographic Area	Total Farms	Farms Using Irrigation	Land in Irrigated Farms (acres)	Irrigated Land (acres)
Saline County	674	47	58,007	4,838
Kansas	61,773	6,205	13,927,077	2,881,292

Data Source: USDA NASS, Census of Agriculture

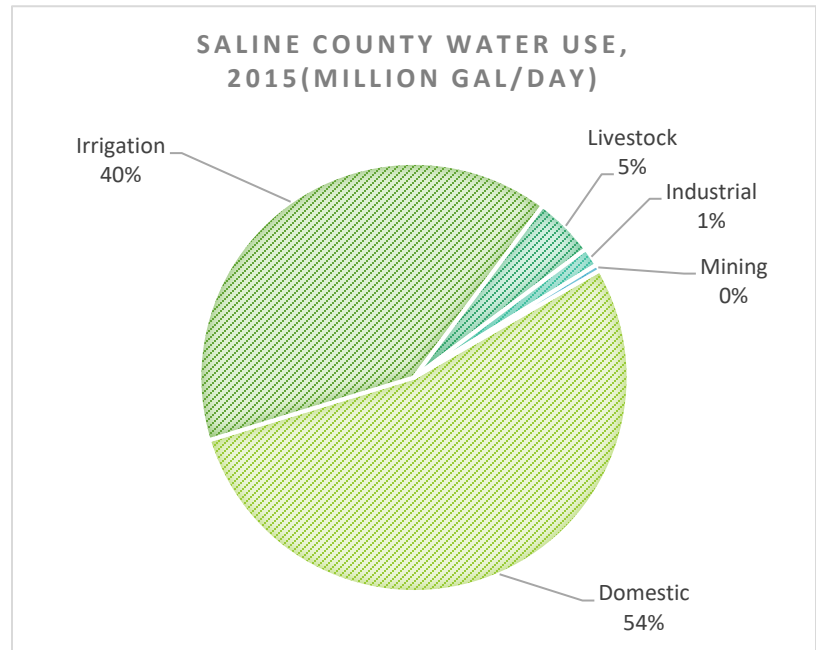
Water Use

Water use statistics for Saline County reflect the high use of crop irrigation. This aligns closely with Southeastern Kansas counties, and the quantities of water used for irrigation are considerably lower than domestic use.

Water Use, by type of Use (million gal/day)

Saline County, 2015	
Domestic Use	3.42
Irrigation	2.55
Livestock	0.29
Industrial	0.09
Mining	0.03

Data Source: U.S. Geological Survey, Water Data



Definitions of water use categories:

- **Municipal/ domestic** – Household use (indoor or outdoor), and municipal water supply use
- **Irrigation** – Water applied by an irrigation system to support crop and pasture growth, or to maintain vegetation on recreational lands such as parks and golf courses
- **Livestock** – Water used for livestock watering, feedlots, dairy operations, and other on-farm needs
- **Industrial** – Water used for fabrication, processing, washing and cooling
- **Mining** – Water used for the extraction of naturally-occurring minerals (such as coal, sand and gravel), liquids (such as crude petroleum) and gases (such as natural gas)

Farming and Food Production

Farms

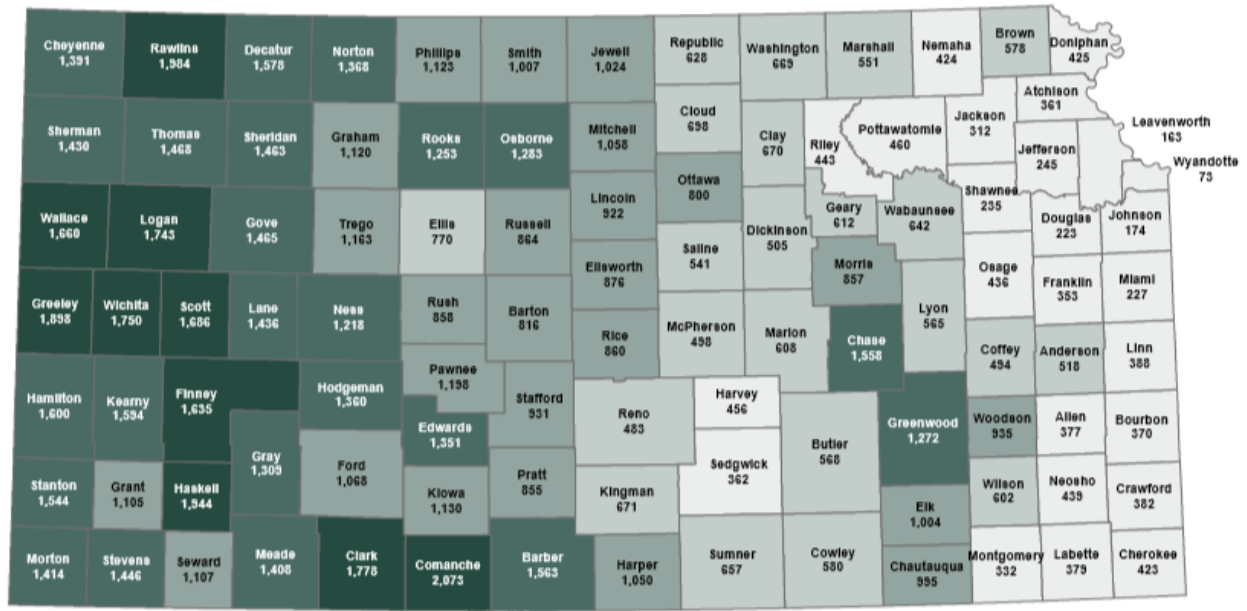
In 2012, there were 674 farms in Saline County that were enumerated in the U.S. Census of Agriculture, occupying a total of 364,468 acres of land. The average farm size was 541 acres. Both national and state trends have shown reductions in the numbers of farms and increases in the average farm size in recent years, but the number of farms in Saline County have decreased since 1997. The total number of acres in farms have also steadily decreased, ultimately reflecting about a 21,000 acre decrease over the same period. The charts on the following page illustrate these fluctuations.

Farms and Land in Farms, 2012

Geographic Area	Farms	Land in Farms (acres)	Avg. Farm Size (acres)	Total Cropland (acres)	Harvested Cropland (acres)
Saline County	674	364,468	541	236,242	215,740

Data Source: USDA NASS, Census of Agriculture

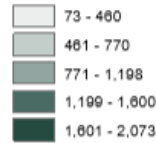
Average Size of Farm in Kansas, by County, 2012



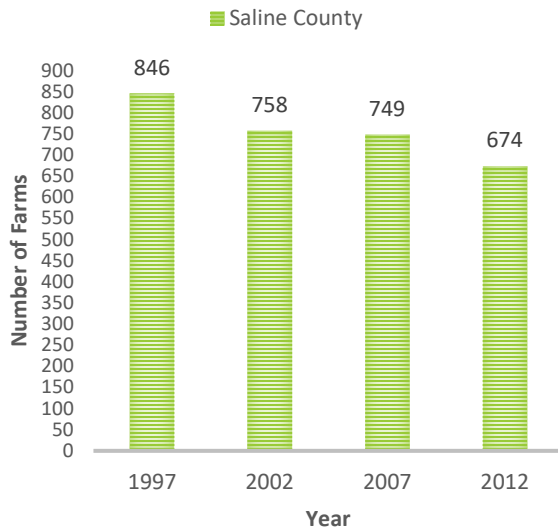
Source: Institute for Policy & Social Research, The University of Kansas; data from U.S. Department of Agriculture, 2012 Census of Agriculture.

State: 747

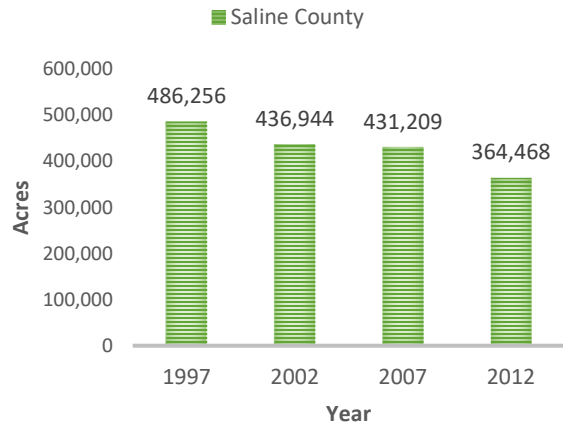
Number of Acres

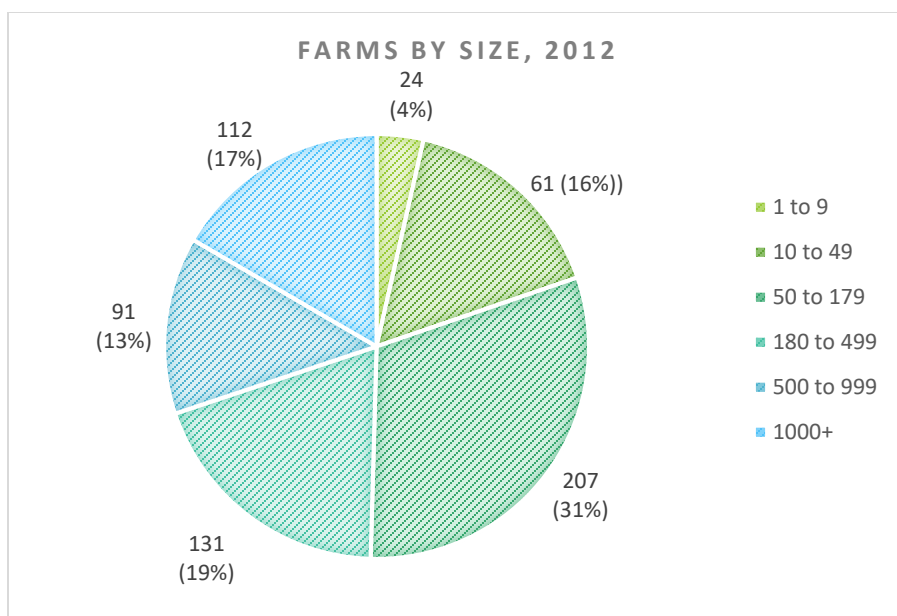


NUMBER OF FARMS



TOTAL ACRES IN FARMS

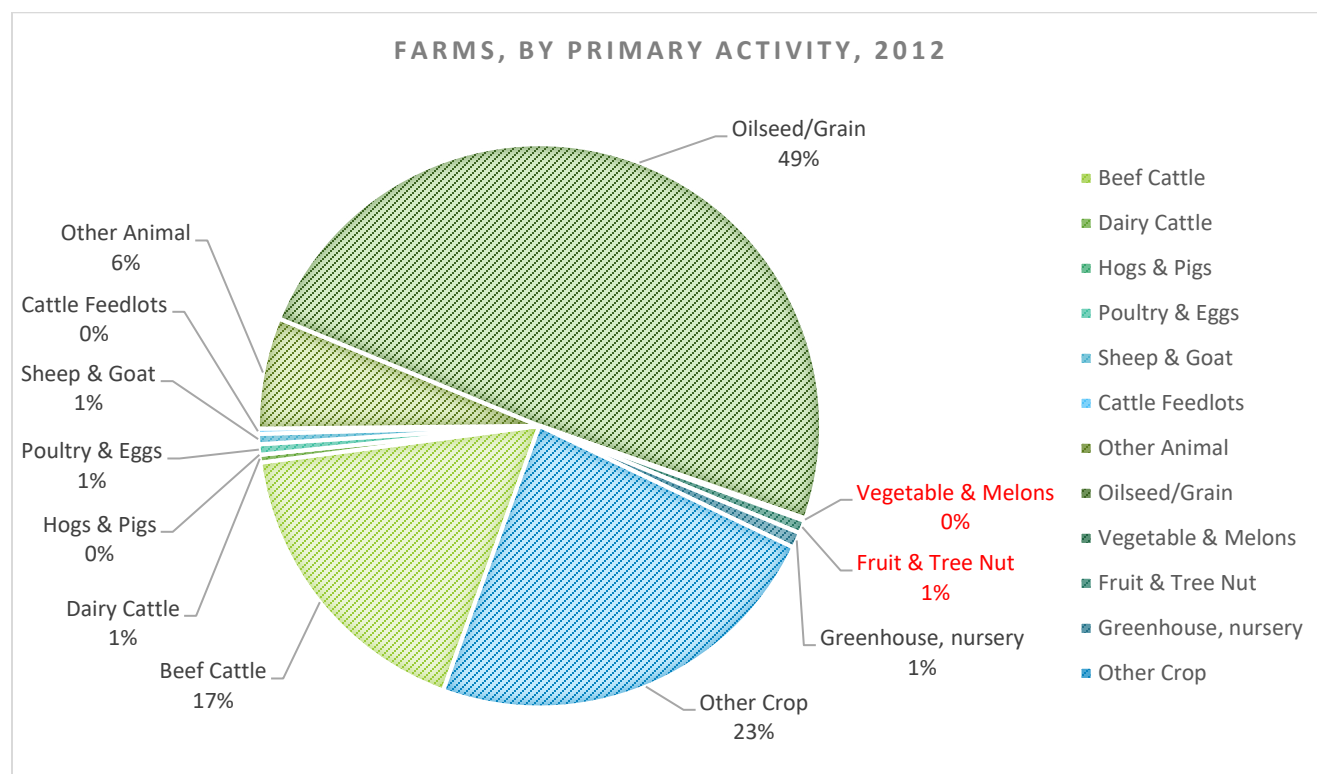




Data Source: USDA NASS, Census of Agriculture

Farm Production

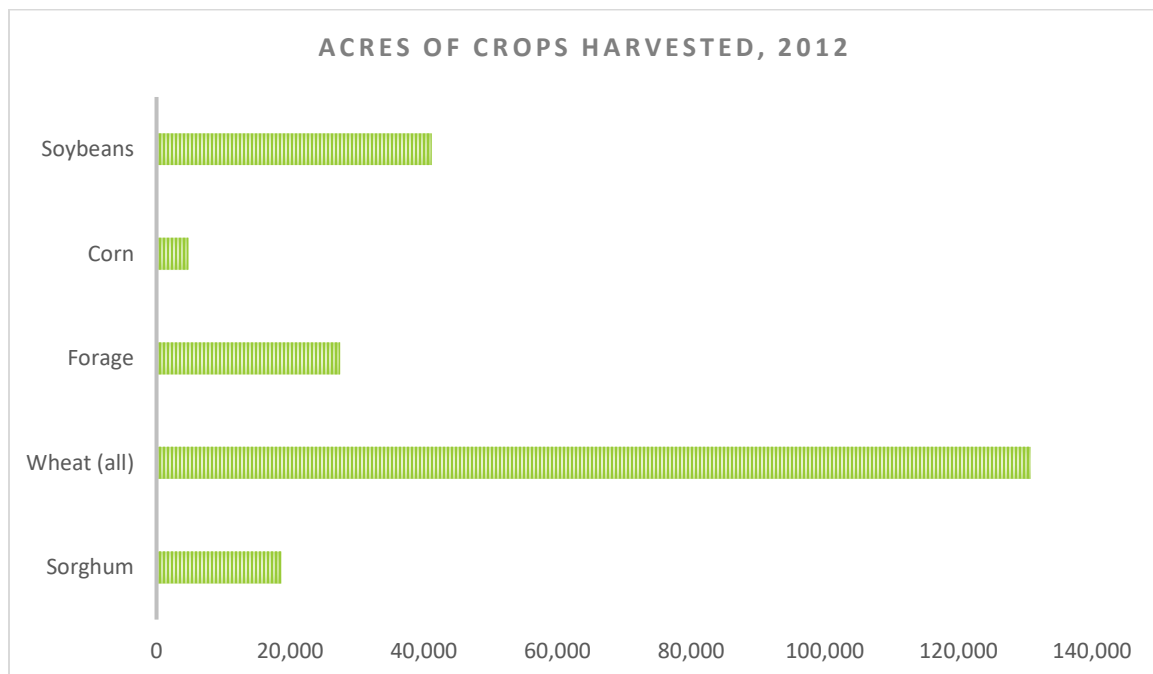
Farming in Saline County is dominated by grain crops, hay and beef cattle production. There was no fruit and vegetable production reported in Saline County as a primary activity in 2012.



Data Source: U.S. Census of Agriculture, 2012

	Quantity (acres)	State Rank
Top Crop Items		
Wheat for grain, all	130,742	24
Winter wheat for grain	130,742	24
Soybeans for beans	41,178	44
Forage-land used for all hay and haylage, grass silage, and greenchop	27,501	35
Sorghum for grain	18,720	52
Top Livestock Inventory Items		
Cattle and calves	24,578	90
Sheep and lambs	2,123	7
Layers	1,188	29
Horses and ponies	796	28
Goats, all	569	31

Data Source: U.S. Census of Agriculture, 2012



*Data for Oats and Vegetables & Melons acres harvested undisclosed

Data Source: U.S. Census of Agriculture, 2012

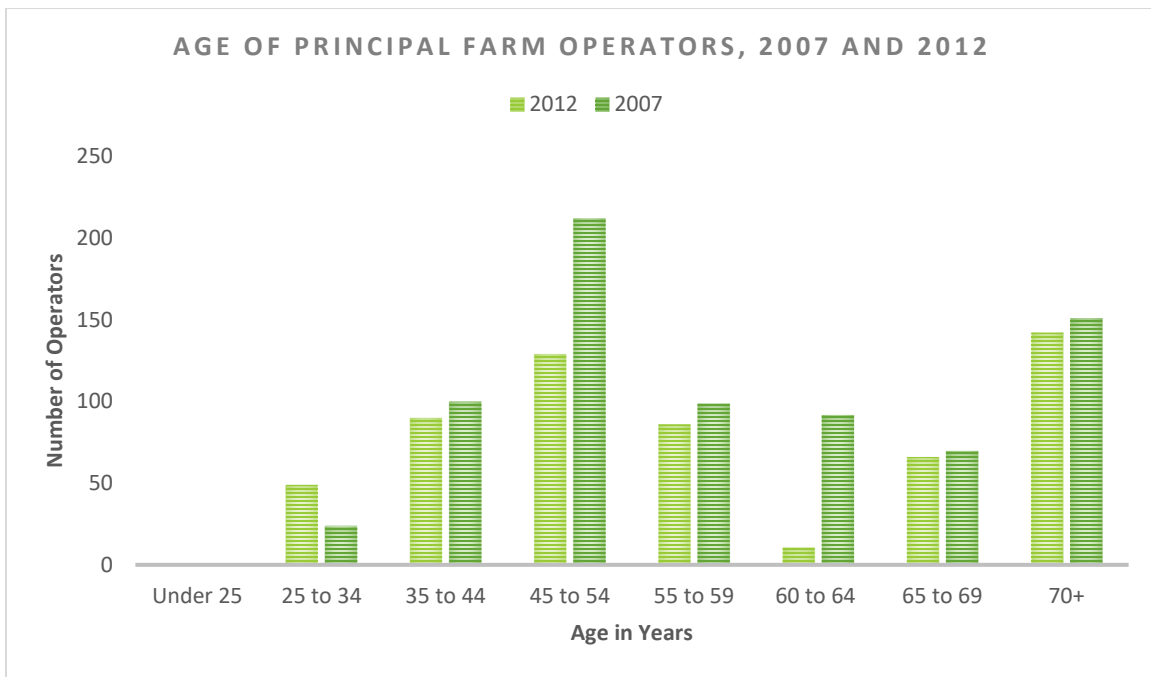
Fruit and Vegetable Production

Commodity crops (corn, soybeans, and wheat) dominate overall crop production in Kansas, and the same is true in Saline County. During 2012, a total of three Saline County farms reported harvesting vegetables for sale over three acres. Five farms reported having orchards, and fruit and vegetable production accounted for 21 of 215,740 total acres of all cropland harvested in 2012.

Farm Operators

Age of Farm Operators

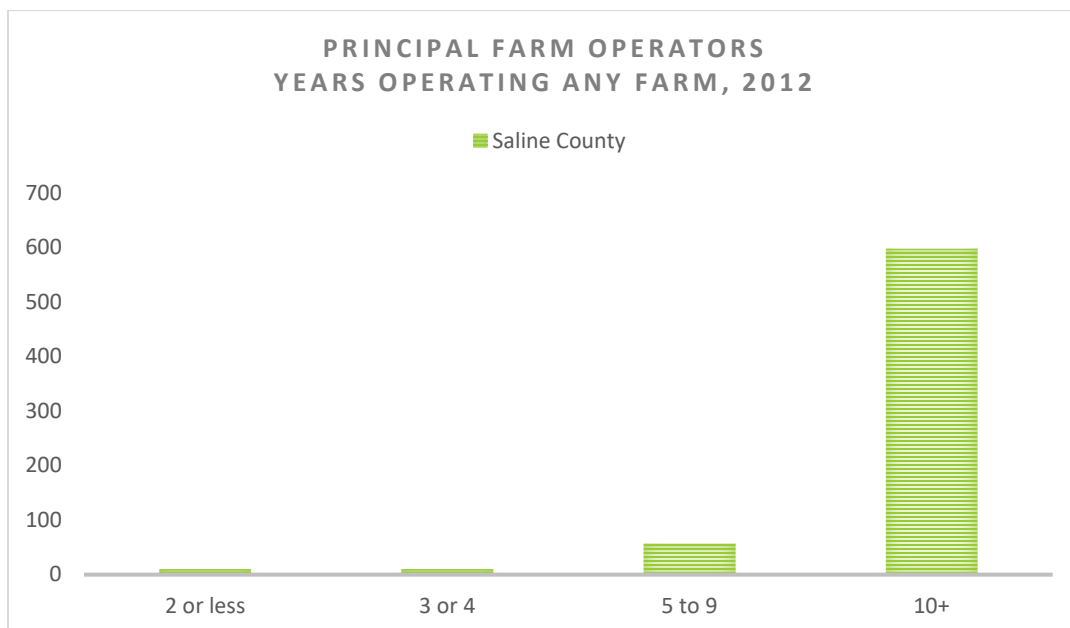
Across Kansas, the average age of farmers has been increasing for many years. The average age of Saline County Farm Operators in 2012 was 58.1 years, an increase to 55.9 years in 2007. The average age of all Kansas principal farm operators in 2012 was 58.2 years.



Data Source: U.S. Census of Agriculture, 2012

Farm Operator Experience

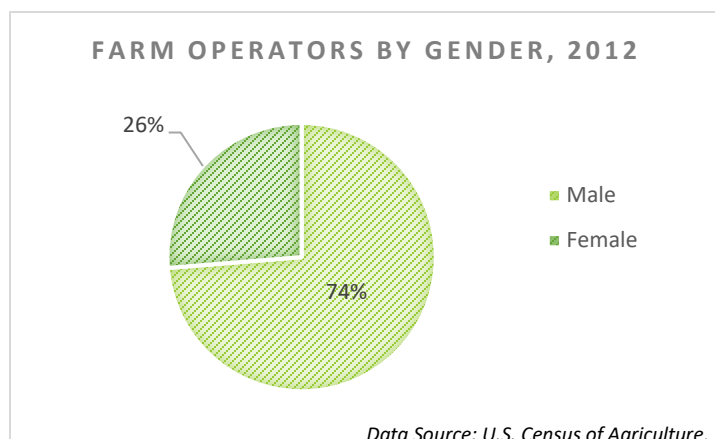
Across Kansas, and in Saline County, the vast majority of principal farm operators have 10 or more years of experience as farm operators. The numbers of new farmers entering the occupation are small. This data, coupled with the data on aging of farm operators, raises concern over retirement. There may not be sufficient numbers of new farmers coming on board to sustain farming operations. In 2012, Kansas farmers reported an average of 27.1 years of farm operator experience; Saline County farmers averaged 26.6 years.



Data Source: U.S. Census of Agriculture, 2012

Gender of Principal Farm Operators

Across Kansas, and in Saline County, a significant majority of principal farm operators are male. Although 26 percent of all Saline County farmer operators in 2012 were women, women accounted for only 7.8 percent of principal farm operators.



Data Source: U.S. Census of Agriculture, 2012

Principal Farm Operators, by Race and Ethnicity

Only a small percentage of Kansas farms have principal operators that are non-white, or of Hispanic/Latino ethnicity. The same is true in Saline County. In 2012, 932 principal farm operators in Saline County self-identified as White and 19 self-identified as Hispanic or Latino. No operators self-identified as Black, Asian, or American Indian/Alaskan Native.

Race/Ethnicity of Principal Farm Operators, 2012

Geographic Area	White	Black/ African American	Hispanic/Latino	Asian	American Indian/ Alaska Native
Saline County	932	0	19	0	0

Data Source: U.S. Census of Agriculture, 2012

Off-farm Employment

The majority of farm operators find it necessary to supplement income from farming operations with other sources of income. In 2012, 37.9 percent of 947 principal farm operators in Saline County reported that their primary occupation was something other than farming. Nearly half (48.8 percent) worked at least some days off the farm. Approximately 32.8 percent of principal farm operators worked off the farm for 200 days or more during 2012.

Principal Farm Operators Off-farm Employment, by percent, 2012

Geographic Area	Primary Occupation Other than Farming	Worked at Least Some days Off-farm	Worked Off-farm 200 Days or More
Saline County	359	462	311

Data Source: U.S. Census of Agriculture, 2012

Farm Sales

During 2012, Saline County farms reported total sales of farm products valued at more than \$84 million. Crop sales accounted for about 70.5% of total sales. The average market value of products sold by Saline County farms in 2012 was \$125,259 – a significant increase over previous census-year reports. This increase in value of sales likely represents changes in market values of products as well as changes in production volumes.

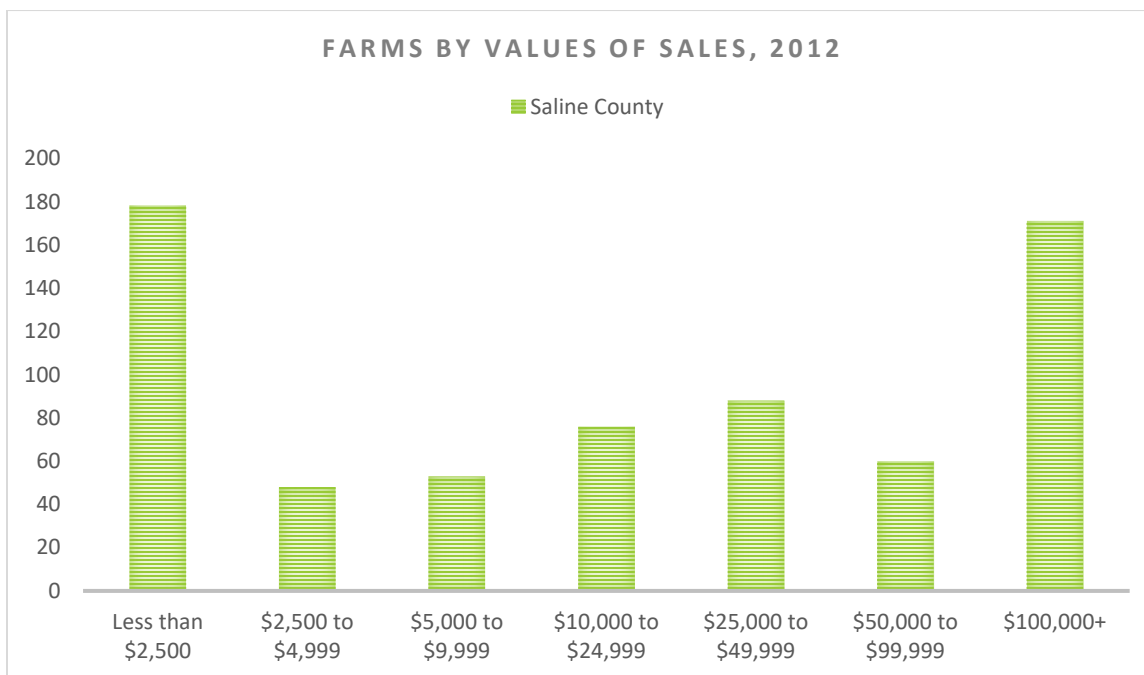
Market Value of Products Sold

Year	Farms	Total Sales	Crop Sales	Livestock Sales	Avg. per Farm
1997	786	\$ 55,485,000	\$ 40,446,000	\$ 150,39,000	\$65,585
2002	758	\$ 41,257,000	\$ 22,157,000	\$ 19,100,000	\$54,428
2007	749	\$ 54,994,000	\$ 26,903,000	\$ 28,091,000	\$73,423
2012	674	\$ 84,424,000	\$ 59,490,000	\$ 24,934,000	\$125,259

Data Source: U.S. Census of Agriculture, 2012

Farms, by value of sales

When grouped by the total value of their sales, approximately half of Saline County farms operate at either a very small or large scale. More than one-quarter (26.4 percent) of farms had sales valued at less than \$2,500 in 2012 while one-quarter of farms had sales valued at \$100,000 or more.



Data Source: U.S. Census of Agriculture, 2012

Sales through Alternative Market Channels

Although traditional commodity farming dominates the Kansas farm market, a few Saline County farms are attempting to market their products through alternative marketing channels.

Value of Alternative Market Sales, 2012

Market Approach, 2012	Kansas		Saline County	
	Farms	\$ Value	Farms	\$ Value
Direct sales to individuals, for human consumption	2,044	\$8,957,000	16	\$46,000
Sales directly to retail outlets	406	No data	3	No data
Sales of value-added commodities	1,615	No data	10	No data
Sales through Community-Supported Agriculture program	144	No data	6	No data
Agritourism Services	1,000	\$8,271,000	5	(D)

(D) = data suppressed to prevent disclosure of data for individual farms

Data Source: U.S. Census of Agriculture, 2012

Net Farm Income

Net average incomes for Saline County farms in 2012 were generous at \$70,576. By comparison, 2012 net farm income for all farms in Kansas averaged \$50,903. About one quarter of Saline County farms reported net operating losses in 2012 as compared to about 41 percent for the state average.

Farm Income, 2012	Saline County
Net cash farm income of operations (total)	\$26,753,000
Average per farm	\$39,692
Percent of farms that reported net gains	60.7%
Average net gain per farm	\$76,855
Percent of farms that reported net losses	39.3%
Average net loss per farm	\$17,664

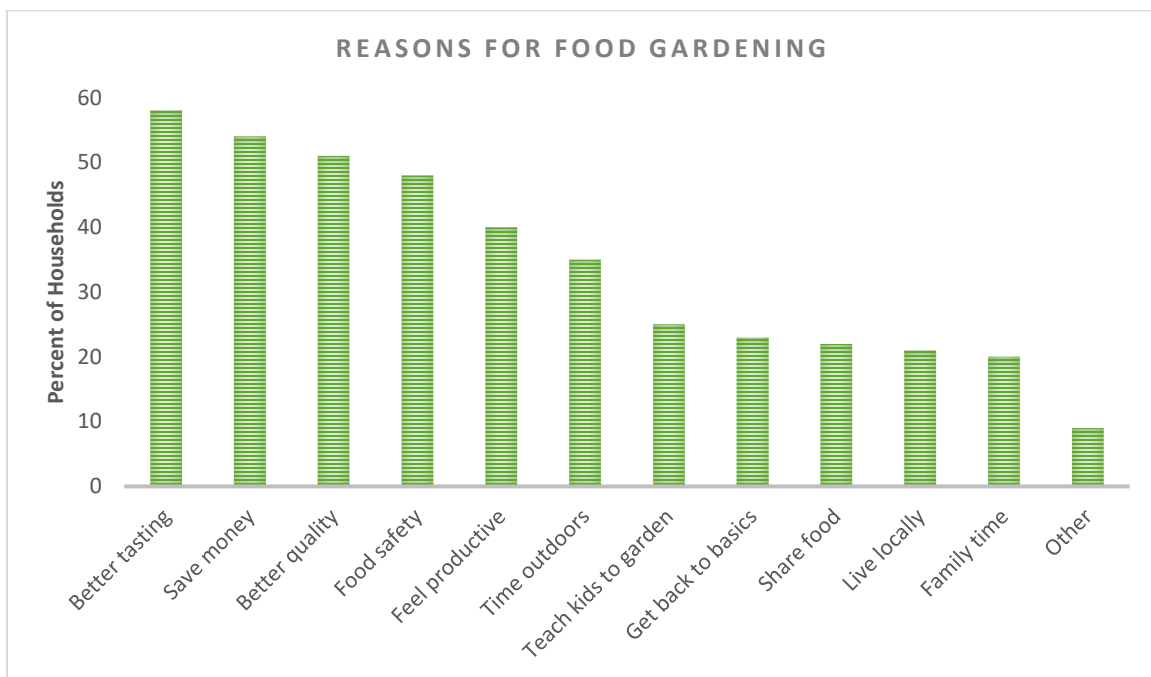
Data Source: U.S. Census of Agriculture, 2012

Other Local Food Production

Home Gardening

Although most communities lack reliable information about the numbers of community residents that grow at least some of their own foods, national studies tell us that interest in home gardening has enjoyed a strong resurgence in recent years. A study published by the National Gardening Association (2014) found that more than one-third (35 percent) of U.S. households had grown food for their own use during 2013. That finding indicates the highest overall participation levels seen in the U.S. in a decade, and an increase of 17 percent over five years. The study found that there had been an increased interest in food gardening among millennials (age 18-34 years old), with a 63 percent increase in participation in food gardening among that group between 2008 and 2013. The report also estimated that more than 2 million U.S. households participated in community gardens in 2013, a 200% increase in five years.

Participants in the same study were asked about the reasons why they participated in food gardening. Their responses may be helpful in understanding what factors are driving the increased interest. Results are shown in the chart below.



Data Source: National Gardening Association. (2014). *Garden to Table: A 5-Year Look at Food Gardening in America*.

Community Gardens

Community Gardens are also growing in popularity – new gardens are being established in many Kansas Communities. Community Gardens are garden sites that offer growing space to multiple community members. Although rules and policies may vary, garden participants are assigned one or more plots upon which they may grow food plants, herbs or flowers of their choosing. Community Gardens are frequently organized by non-profit organizations or groups of community volunteers. Many gardens offer instruction and educational programming and access to shared tools and equipment. In addition to the obvious benefits of healthy foods and physical activity, community gardens provide social interaction that

helps to build community. Because Community Gardens are often established on abandoned lots or other un-space within the community, they may also help to increase the attractiveness of a neighborhood by eliminating eyesores or hazardous conditions.

The Church Community Organic Garden of Salina is affiliated with the Trinity United Methodist Church. New building construction led to the demolition of the previous garden site. A new site is being developed as an allotment garden. One plot will be used as a donation garden. Produce from that plot will be donated to groups such as the Food Bank, Salina Rescue Mission, Ashby House, etc.

Hunting, Fishing and Food Foraging

In addition to home gardening, households may also supplement their food supply by hunting, fishing or foraging for edible wild plants. Unfortunately, no data are available describing the extent to which these sources are a routine part of the community food supply.

Food System Infrastructure

Most food consumed by humans does not go directly from harvest in the field or livestock operation to a home dinner table. It is far more common to have many intermediate steps in transporting, processing, packaging and distribution before foods reach retail outlet shelves or restaurant kitchens. Once there, most foods undergo additional preparation before being eaten by consumers.

In the conventional food system, most foods are not sold and consumed in the communities where the products originate. Instead, farm products are produced in larger quantities and sold to processors that may be long distances from the farm. Processors, in turn, sell and ship their finished products to distributors and wholesalers, who then sell products to retail stores or restaurants. By the time the food reaches the consumer's plate, it may have traveled thousands of miles and changed hands numerous times.

WHAT IS THE FOOD SYSTEM?

THE COMBINATION OF ALL PROCESSES AND INFRASTRUCTURES NEEDED TO FEED PEOPLE TYPICALLY FALLS INTO THREE PRIMARY CATEGORIES:



Image Source: <http://charlestonorwig.com/>

Food Processing

Meats

The limited number of meat processing facilities in Kansas is frequently cited as a barrier to local meat production by smaller scale or family farms. Under federal law, inspection standards in a state facility must be “equal to” those of federally inspected operations. The main difference between state and federal plants is that, by law, state inspected meats can only be sold within the state. In other words, meat products processed at state plants cannot enter commerce across state lines, which includes online sales, mail orders and other sales methods wherein meats are shipped out of state. Meat products processed at federal plants, on the other hand, may be sold across state lines, on the Internet and via mail order.

Geographic Area	Company	City	Activities	Inspector
Saline County	Smoky River Meats	Salina	Retail, red meat	---

Manufacturing

No manufacturers were identified from searches of the data sources utilized in producing this report.

Distribution, Warehouses, and Wholesale Suppliers

The Schwan Food Company is a distributor based in the City of Salina. The 105,000 square foot facility serves a buffer between manufacturing and shipping. Schwan's Pizza Plant is also a supplier located in Salina.

Geographic Area	Distributor	City	Sector	Category
Saline County	Stellar Distribution	Salina	Wholesale trade – Nondurable Goods	Groceries, General Line business/ industry
	Hoosier Food Service, Inc.	Salina	Food products - Wholesale	---
	Frito-Lay, Inc.	Salina	Food products - Wholesale	Groceries

Infrastructure to Support Local Food Farmer/Producers

One of the most frequently-cited barriers to increasing sales of locally-grown foods to businesses and institutions within a community is the challenge of aggregating foods produced in small quantities by small-scale producers and adding the processing and packaging that is needed to transform the raw products into forms and quantities that are better-matched to the needs of those potential purchasers. Many smaller-scale farmers lack on-farm capacity for washing and packaging fruits and vegetables, and few have the food safety certifications that may be required by institutional buyers. Institutional purchasers need the convenience of being able to fill all their needs with purchases from a small number of vendors; procuring products from multiple farms is cumbersome and time consuming. Some institutional food purchasers have become heavily reliant upon pre-processed foods like baby carrots or pre-cut apple slices, and no longer have access to the staff and equipment that would be necessary to process and prepare raw foods in-house.

To address this gap between small-scale producers and larger-scale potential purchasers, some form of centralized aggregation, processing, order fulfillment and distribution system may be indicated. Many communities have recognized that the market for locally-produced foods will be limited until this infrastructure gap is adequately addressed. Some communities have undertaken feasibility studies to explore options for creating food hubs to meet the needs. Food hubs fill the gap between small to intermediate-scale local food producers and larger commercial or institutional purchasers by aggregating and packaging farm products and providing a single sales point for purchasers interested in procuring local foods. Many also provide technical assistance to farmers on subjects such as food safety or assessment of market needs, and they may also provide some light processing and packaging.

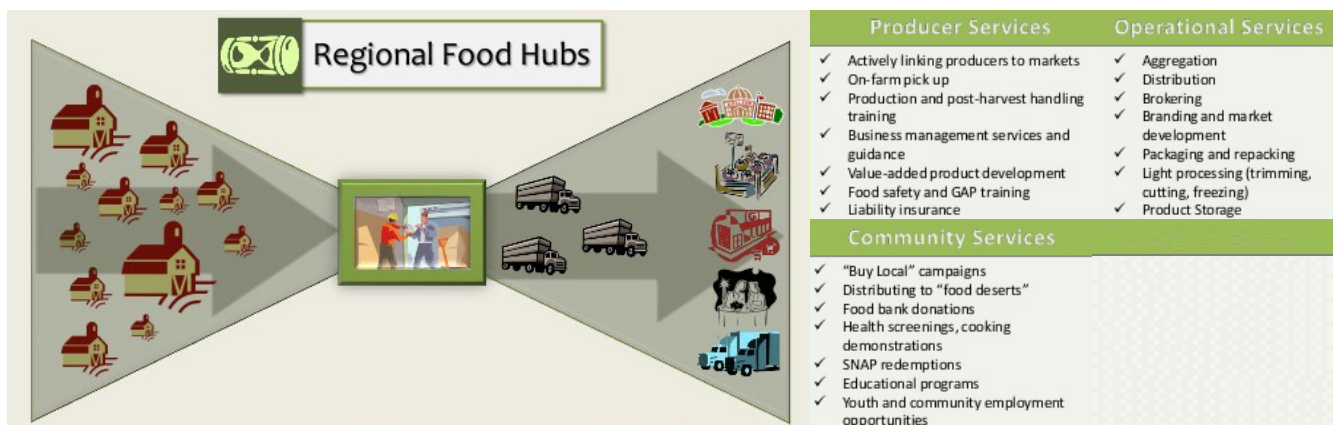


Image Source: Southern SAWG. (2015). Food Hub Lessons: Early Decisions. <http://www.slideshare.net>

In Kansas, two food hub feasibility studies have been completed in northeastern Kansas. Development of a regional food hub operating under the name Fresh Farm HQ has begun operations. The organization is structured as a member-owned co-op, and currently has ten producer/owners. The food hub serves as an intermediary marketing and distribution broker, coordinating aggregation of foods produced by small-scale farms and providing businesses interested in purchasing locally-grown foods with a centralized purchasing system. Additional services provided by the food hub organization include assistance with crop/stock planning, food safety planning, bulk packaging supply, and technical assistance and training.

A feasibility study for a regional food hub in north-central Kansas was also conducted in 2017.

Support for Value-Added Food Producers

For individuals or businesses wanting to develop and sell value-added food products, several support resources are available in the region.

Education and Technical Assistance

Kansas State University Value Added Foods programs provide assistance in developing value-added food products, meat products and bakery products. Their services include product and process development, shelf-life evaluation, nutrition labeling, and chemical and microbiological analysis and evaluation.

K-State is the only school in the United States that offers a four-year Bachelor of Science degree in **Bakery Science and Management**. The Bakery Science research laboratories include a modern pilot-scale bakery, and various analytical labs for testing ingredients, dough, and finished products.

The **American Institute of Baking** (now known as AIB International) in Manhattan was founded in 1919 as a technology and information transfer center for bakers and food processors. The original mission was to "put science to work for the baker", a theme that has expanded yet remains central to their programs, products, and services. The Institute's staff includes experts in the fields of baking production, experimental baking, cereal science, nutrition, food safety and hygiene.

Community/Incubator Kitchens

Would-be entrepreneurs who would like to produce and sell value-added food products are often faced with challenges of how to meet food safety regulations and requirements without investing large sums of capital to acquire equipment and an appropriate kitchen workspace. Community or incubator kitchens, which offer certified kitchen space and commercial-grade food preparation equipment on a rental basis provide small-scale startup businesses with an affordable option for producing their food products.

The Kansas Department of Agriculture (KDA) has developed an Incubator Kitchen Resource Guide to provide critical information about incubator resources throughout the state of Kansas. Although the KDA only lists Kitchen 4 Hire, a shared kitchen facility located in Salina, as the only facility of its kind in the 12-county region, there are likely to be a number of other privately-owned commercial-grade kitchen facilities located in churches, schools and community centers in the region. Some of these may be willing to negotiate with individuals seeking kitchen access to allow leased use of kitchen facilities during otherwise idle time periods.

The Retail Food Environment

The food that is available in our environment and the manner in which it is presented to us exert strong influences on our eating choices. No matter how well-intentioned and knowledgeable a person might be, maintaining healthy eating behaviors and supporting a local food system can be difficult if healthy and local food options are not readily available, accessible, convenient or affordable in the community. When we consider the fact that, at times, an abundance of less healthy or non-local food options is more abundant, easier to find and cheaper to buy, we better understand the challenges individual consumers face when choosing what to buy and eat. Even when consumers are deliberately trying to maintain healthy diets, a barrage of subtle and not-so-subtle cues and messages in the food environment may derail their good intentions. Factors as varied as product placement and pricing, the words used to describe a menu offering, plate sizes, and

ambient lighting in the dining environment have all been shown through research to influence eating choices and behaviors (Wansink, 2014).

The term ‘food environment’ describes the array of food options and environmental influences within a neighborhood or community. The U.S. Centers for Disease Control and Prevention (U.S. Centers for Disease Control and Prevention, 2016) defines the food environment as:

- The physical presence of food that affects a person’s diet,
- A person’s proximity to food store locations,
- The distribution of food stores, food service, and any physical entity by which food may be obtained, or
- A connected system that allows access to food.

Both the private and public sectors shape our food environment. Businesses seek to locate in neighborhoods where they have the best chances of making a profit. Restaurants and grocery stores remain where they find a reliable customer base. For local government and public agencies, zoning regulations influence where different types of commercial businesses can locate, while procurement and purchasing decisions can influence what foods are available in places like schools and city parks.

The factors that shape our food environment range from common to quite subtle factors:

- Cultural influences, and familiarity with various foods
- Knowledge and food preparation skills
- The physical availability to access food
- Access to cooking and food preparation facilities
- Time constraints
- Where various stores and food outlets are located
- The pricing of healthy or local food offerings
- Product placement on store shelves
- Plate size in restaurants
- The words used to describe a menu offering

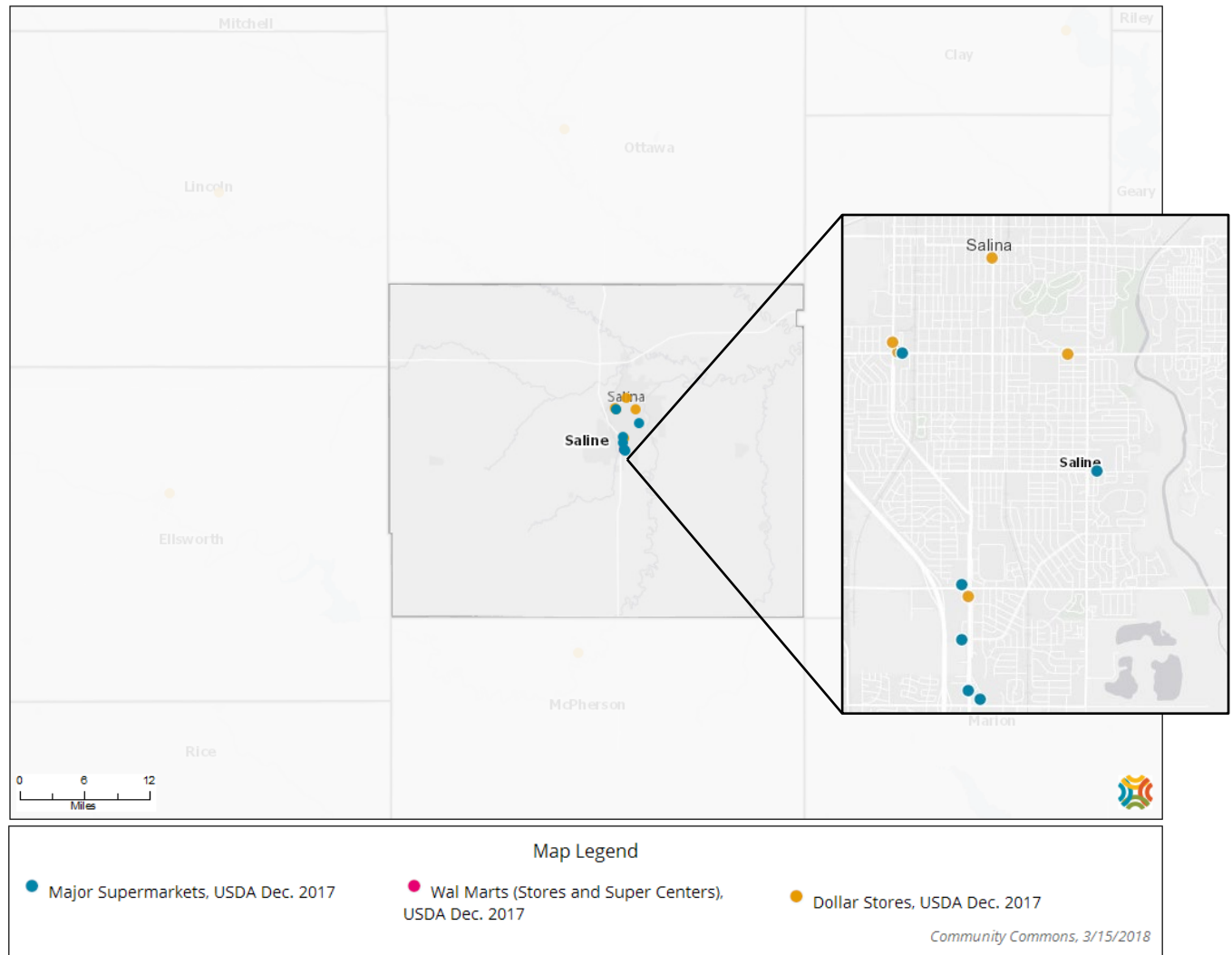
Each of these factors, and many more, come into play as consumers select the food that they eat.

Grocery Stores

Traditionally, most families have purchased the majority of their food for home use at community grocery stores. That tradition is changing, however, as more large-scale ‘big-box’ stores like Walmart and Target devote significant sections of their store floor space to grocery items, and smaller convenience and discount stores also expand their offerings of food items. Even pharmacies are expanding their selection of grocery items.

Data from the proprietary InfoUSA market analysis database generated the following counts of retail food businesses operating in the region in 2017:

Geographic Area	Store Type					
	Supercenters	Grocery Stores	Meat Markets	Fruit & Veg Markets	Convenience Stores	Dollar Stores
Saline County	2	4	2	0	22	3



**For more discussion of access to grocery stores in Saline County, please refer to the Food Access section of this report.*

Farmers' Markets

Farmers' markets offer consumers the opportunity to purchase fresh, locally-grown foods directly from the farmers that produced them. This direct marketing approach is beneficial to both farmers and consumers in many ways. Farmers may retain more of the sales value for their products than they would if products were marketed through conventional food distribution systems, and farmers' markets provide an ideal outlet for products that are only available in small quantities. Consumers gain access to products that are freshly-harvested, and the opportunity to build relationships with the farmers that grow their food. Interest in farmers' markets has grown in recent years, both nationally and across Kansas.

In Saline County, the 9th and Grand Farmers' Market, Salina Farmers' Market, and Downtown Farmers' Market were all in operation in Salina. The 9th and Grand and Downtown Farmers' Markets are both SNAP retailers.

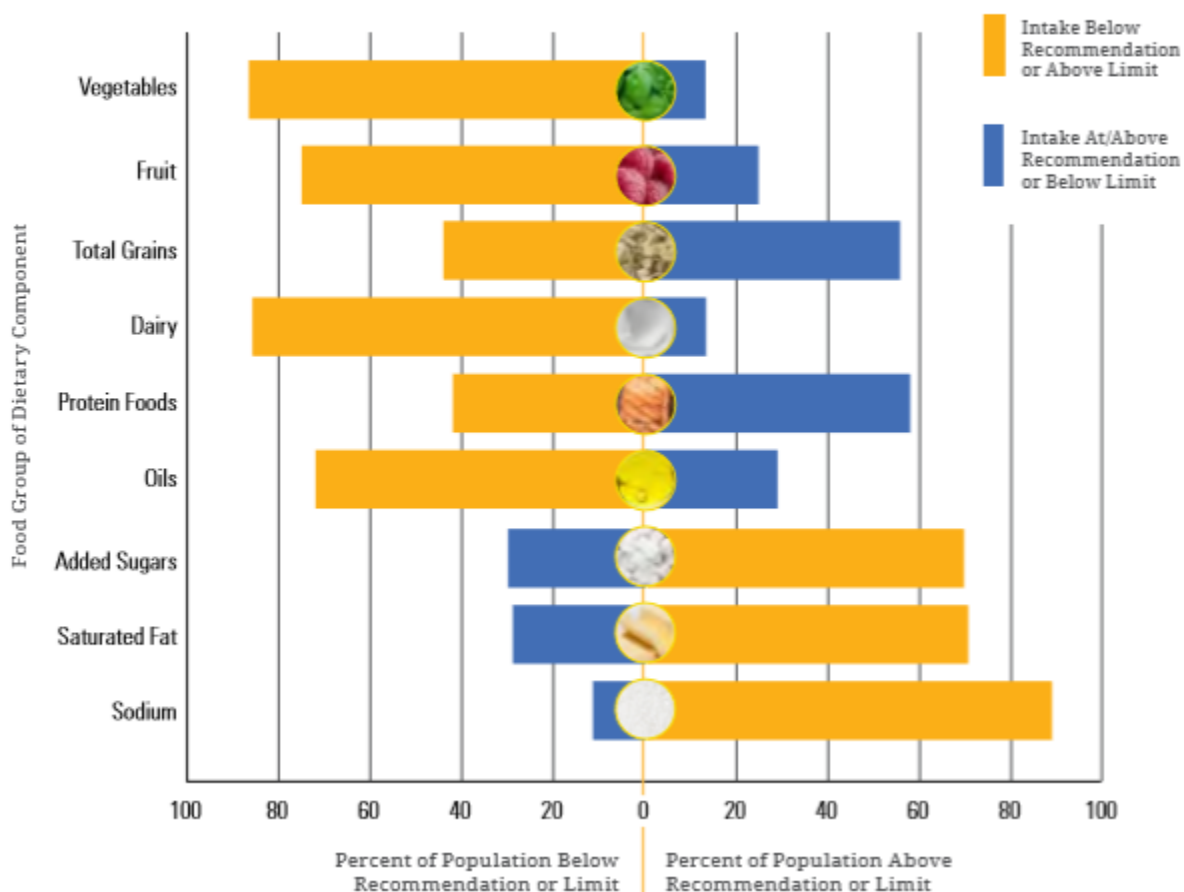
Consumer Eating Behaviors and Food Purchases

Eating Behaviors

Across the nation, and in Kansas, studies have repeatedly found that consumers' diets are not well-aligned with current dietary recommendations. According to recent information from the Dietary Guidelines for Americans (U.S. Department of Health and Human Services, and U.S. Department of Agriculture), about three-quarters of Americans consume too little

fruits, vegetables, dairy products and oils, and more than half eat more than the recommended amounts of grains and protein foods.

Dietary Intakes Compared to Recommendations. Percent of the U.S. Population Ages 1 Year & Older Who Are Below, At, or Above Each Dietary Goal or Limit



Note: The center (0) line is the goal or limit. For most, those represented by the orange sections of the bars, shifting toward the center line will improve their eating program.

Image Source: U.S. Department of Health and Human Services and U.S. Department of Agriculture.

2015–2020 Dietary Guidelines for Americans, 8th Edition, 2015. <http://health.gov/dietaryguidelines/2015/guidelines/>

Fruit and Vegetable Consumption

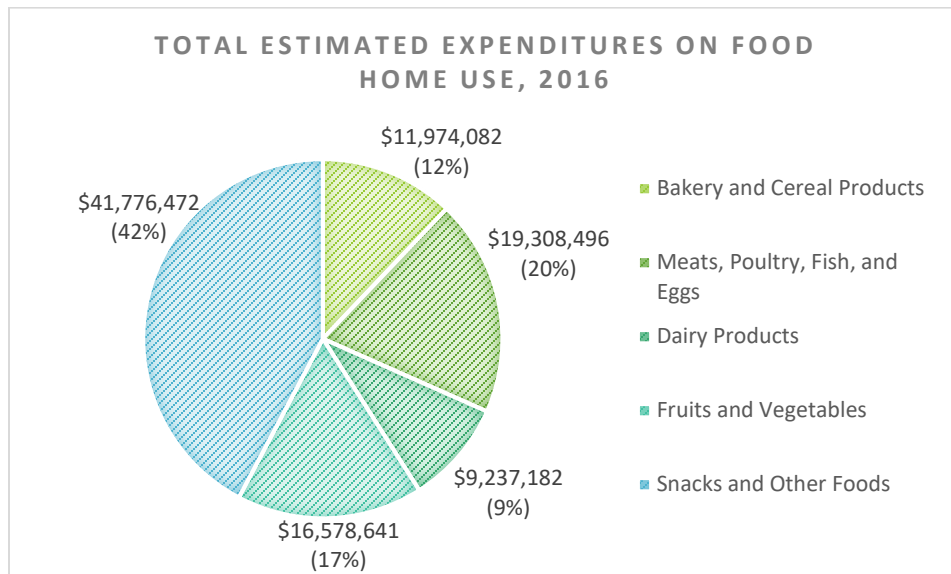
At the state and county levels, information about consumers' fruit and vegetable consumption are monitored as part of the annual Behavioral Risk Factor Surveillance System (BRFSS) survey. State-level results are available for most years; county-level results are available only in years where the survey sample was enlarged sufficiently to produce reliable estimates for most counties in Kansas. The way in which questions about fruit and vegetable intake were asked and reported was changed between 2009 and 2010, which makes comparisons between pre-2010 and later-year results invalid.

BRFSS data for Kansas shows that in 2009, 81.4 percent of adults were consuming fruits and vegetables less than five times per day. Approximately 84.1 percent of Saline County residents were consuming fewer than 5 servings of fruits and vegetables daily during the same time. In 2015, 22.3 percent of Saline County residents were consuming fewer than one serving of vegetables daily, and approximately 42.9 percent of Saline County residents were consuming fewer than one serving of fruit.

Food Expenditures

Data from the national Consumer Expenditure Survey provide regional estimates of consumer spending patterns for an array of goods and services. A proprietary company, Synergos Technologies, has combined those regional estimates with local-level demographic data to produce statistical estimates of consumer spending patterns at the county level.

In 2016, Saline County residents spend an estimated \$143,195,556 annually on all food purchases. Of total food purchases, approximately \$54,903,066 is spent on foods prepared away from home as compared to \$ 88,292,477 spent on foods prepared at home. As illustrated in the chart below, the majority (42 percent) of food purchased for home use is on snacks and other foods and only 17 percent is spent on fruits and vegetables. Given this data, fruit and vegetable purchases are calculated at 83 cents per person, per day.



*Data Source: Synergos Technologies, Inc. forecasts Business Decision data system
Estimates derived from the Consumer Expenditure Survey, Bureau of Labor Statistics, 2012*

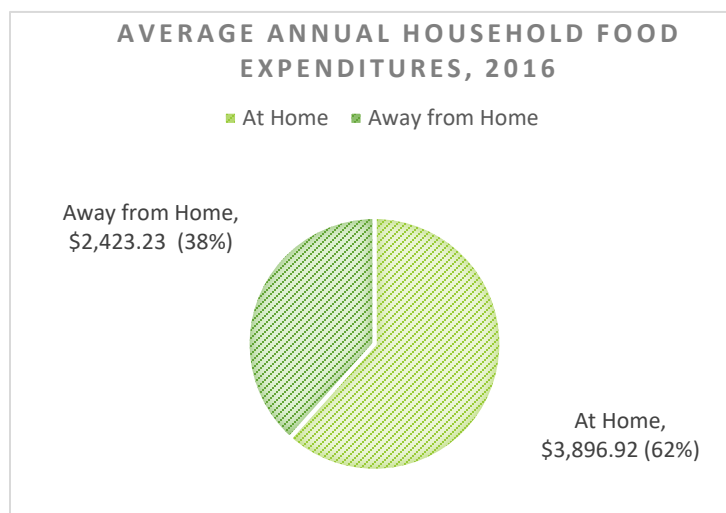
	2016 Consumer Expenditures
Saline County Population, 2017	55,334
Total county food spending	\$143,195,556
Total annual food spending per capita	\$2,587.84
Total daily food spending per capita	\$7.09
Total spending on fruits and vegetables (at home)	\$16,758,641
Total annual fruit and vegetable spending per capita	\$302.86
Daily per capita spending on fruits and vegetables	\$0.83

*Data Source: Synergos Technologies, Inc. forecasts Business Decision data system
Estimates derived from the Consumer Expenditure Survey, Bureau of Labor Statistics, 2012*

Dining Away from Home

Restaurants comprise another important component in most community food systems. The share of total food dollars that U.S. households spend on food prepared away from home has risen steadily since the 1970s. Several factors have contributed to this trend, including more women employed outside of the home, higher household incomes, and more affordable and convenient fast food outlets (USDA ERS, 2016). While foods prepared away from home are not necessarily less healthy than home-cooked meals, research conducted by USDA has found that meals and snacks based on food prepared away from home contained more calories per eating occasion than those based on at-home food. Away-from-home food was also higher in nutrients that Americans overconsume (such as fat and saturated fat) and lower in nutrients that Americans under-consume (calcium, fiber, and iron). (USDA ERS, 2016)

Residents of Saline County have limited choices and options when they choose to eat foods prepared away from home, and data suggest that they may spend more time eating at home as a result. U.S. Census county business patterns indicate that there was a total of 105 eating and drinking establishments operating in Saline County in 2016. Results from the National Consumer Expenditure Survey estimate that Saline County residents spend approximately 27 percent of their food budgets on food prepared away from home (\$2,423.23/household/year) for a total of \$54,903,066 in annual spending (Synergos Technologies, Inc.).



*Data Source: Synergos Technologies, Inc. forecasts Business Decision data system
Estimates derived from the Consumer Expenditure Survey, Bureau of Labor Statistics,
2012*

Fast Food Restaurants

Just as a lack of access to healthy food options may influence individual's eating behaviors, an over-abundance of less healthy food options may also negatively influence eating choices. Menu offerings at fast food restaurants are frequently filled with unhealthy choices that are high in calories, fats and salt levels. (*Fast food restaurants are defined as limited-service food establishments where patrons generally order or select items and pay before eating.*) Environments in which there are high concentrations of fast food restaurants may tempt consumers toward unhealthy food choices, especially if access to healthier food options is limited or more difficult.

In 2015, there were 48 fast-food outlets located within the borders of Saline County. On a per person basis, the density of fast food outlets in Saline County is higher than the Kansas and U.S. averages.

Fast Food Restaurants, 2015

Geographic Area	Total Population	Number of Establishments	Establishments, rate per 100,000 population
Saline County	55,334	48	86.75
Kansas	2,853,118	2,036	71.36
United States	312,846,570	233,392	74.6

*Data Source: U.S. Census Bureau, County Business Patterns
Additional data analysis by CARES, 2015*

Comparison of Agricultural Production to Consumer Spending

For most Kansans, very little of the food that they consume has been produced locally. The vast majority of food consumed by Saline County residents is produced outside of the county. The quantities of beef produced exceed consumption by community residents. The quantities of pork, dairy products, fruit, and poultry and eggs being produced locally are less than the amounts being consumed by residents of the region. Less than one percent of total sales by farms in the region were direct sales to individuals.

Geographic Area	Consumer Expenditures on Food, 2016							
Saline County	Households	Poultry/ Eggs	Pork	Beef	Fruits & Vegetables	Milk/Dairy		
	22,400	\$4,905,600	\$4,121,600	\$6,115,200	\$16,912,000	\$10,214,400		
	Farm Products Sold, 2012							
	Total Farm Product Sales	Poultry/ Eggs	Hogs & Pigs	Cattle & Calves	Fruit, Berries & Nuts	Vegetables	Milk/Dairy	Direct Sales to Individuals
	\$84,424,000	\$23,000	\$142,000	\$23,785,000	\$29,000	(D)	\$466,000	\$46,000

(D) = Data suppressed to avoid disclosure for individual farms

+ = Actual Sales Totals are higher than reflected here, due to suppressed data at county level

Source: Consumer expenditure estimates based upon regional expenditure patterns from

Consumer Expenditure Survey and local population figures. Farm sales from 2012 U.S. Census of Agriculture.

Nutrition-related Health Conditions

Overweight and Obesity (Adult)

Maintaining a healthy weight is an important factor in maintaining overall health. Body weight is closely associated with two primary factors --- nutrition and physical activity. Excess body weight, which occurs when caloric intake exceeds the number of calories expended, places individuals at increased risk for many health issues, including heart disease, diabetes, some forms of cancers, and joint problems and physical disability. Obesity has become a widespread problem in the United States, with rates steadily increasing over the last several decades.

Rates of overweight and obesity in the population are routinely measured as part of the national Behavioral Risk Factor Surveillance System coordinated by the U.S. Centers for Disease Control and Prevention (CDC) and state health agencies. In Kansas, the Kansas Department of Health and Environment periodically includes an expanded sample size to make it possible to produce county-level results.

For the measures of overweight and obesity, survey respondents are asked to self-report their height and weight. In 2015, 36.8 percent of Saline County adults aged 18 and older self-reported that they had a height and weight that would calculate to a Body Mass Index (BMI) between 25.0 and 30.0 (overweight); an additional 37.5 percent of Saline County adults reported height and weights that would classify them as obese (BMI > 30).

Rates of Overweight and Obesity, 2015

Geographic Area	% of Adults who are Overweight (BMI between 25.0 and 30.)	% of Adults who are Obese (BMI >30)	% of Adults who are Overweight or Obese
Saline County	36.8%	37.5%	74.3%
Kansas	33.8%	34.2%	68%

Data Source: Kansas Department of Health and Environment, Kansas Behavioral Risk Factor Surveillance Survey

Other Diet-related Health Conditions

The Behavioral Risk Factor Surveillance Survey also asks survey participants whether they have ever been told by a doctor or other health professional that they have any of several health conditions. The prevalence of adults tested and diagnosed with high cholesterol as well as adults diagnosed with hypertension in Saline County is slightly higher than the state average.

Geographic Area	% of Adults Diagnosed with Diabetes	% of Adults Tested and Diagnosed with High Cholesterol	% of Adults Diagnosed with Hypertension	% of Adults who had Angina or Coronary Heart Disease
Saline County	8.6%	39.8%	32.9%	2.7%
Kansas	9.7%	37.4%	31.6%	3.8%

Data Source: Kansas Department of Health and Environment, Kansas Behavioral Risk Factor Surveillance Survey, 2015

Access to Healthy Foods

Access to healthy food options is essential to healthy eating habits which are, in turn, essential to good health. When we talk about access to healthy food options, there are two considerations. First, a consumer must be able to physically get to places where healthy foods are available for purchase. Second, the consumer must be able to afford to buy the healthier food options or must be able to obtain assistance that enables her/him to do so. These are minimum requirements for food access. In addition, it is desirable that community residents have access to foods that are culturally appropriate and are able to access food through socially acceptable means that respect and preserve individuals' dignity.

Physical Access

Physical access to healthy food options is commonly measured by considering two factors - the distance that the consumer must travel to the nearest retail grocery store and the consumer's access to reliable transportation to travel to that closest store. In urban areas, a distance of one mile or less to the nearest grocery store is commonly considered to be adequate; in rural areas a distance of 10 miles or less is commonly considered adequate. The proportion of low-income household in an area is often used as a proxy indicator of less access to reliable transportation. Geographic areas in which a substantial portion of the population is low income (a poverty rate of 20 percent or higher), and one-third or more of households live further than one mile (in urban areas) or ten miles (in rural areas) from the closest full-service grocery stores are designated as 'food deserts' to denote challenges with getting to a grocery store that offers a variety of healthy food options.

Population with Limited Food Access

Based upon data from 2015, analysis by the U.S. Department of Agriculture found that three census tracts located within Saline County met the definition of a food desert (low income and low access at a distance of one mile in urban areas or 10 miles in rural area). The tracts, shown on the map on the following page, were located in central Saline County in the Salina area. The total population residing in these census tracts in 2015 was 15,619 (or an estimated 328.2% percent of the 2017 county population). Locations of retail grocery stores in 2017 are also shown on the food desert map.

Looking at the access question in a slightly different way, the table below shows the number and percent of residents in Saline County that were both low-income (a family income equal to or less than 200 percent of the Federal Poverty Level) and had low access to a supermarket or large grocery store.

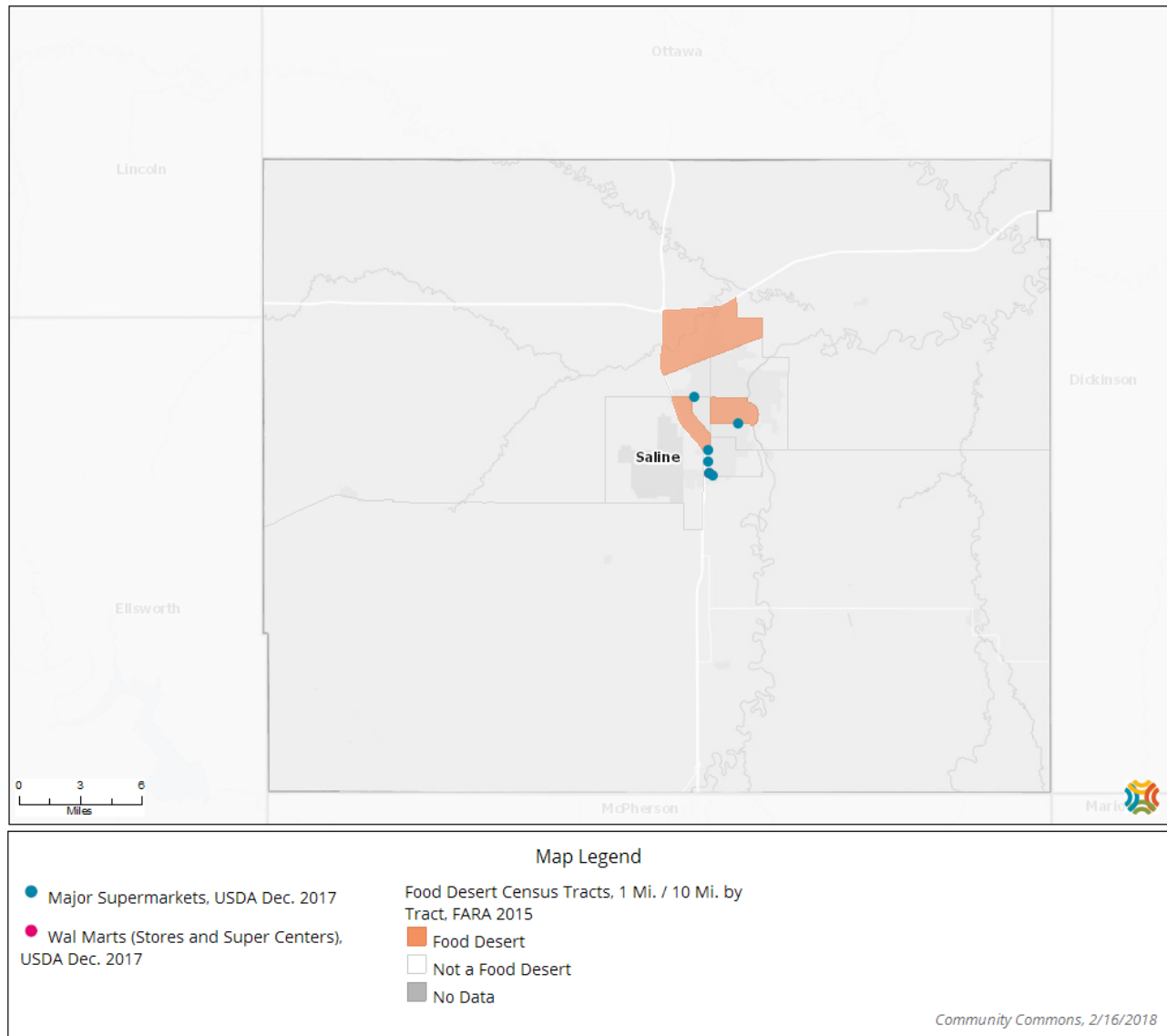
Food Access: Low Income and Low Food Access

Geographic Area	Total Population	Low-Income Population (200%+ FPL)	Low-Income Population with Low Food Access	Percent of Low-Income Population with Low Food Access
Saline County	55,334	17,321	3,635	20.99%
Kansas	2,903,820	874,995	253,257	28.94%

Data Source: Community Commons

Original data source: U.S. Department of Agriculture, Economic Research Service, USDA – Food Research Atlas, 2015

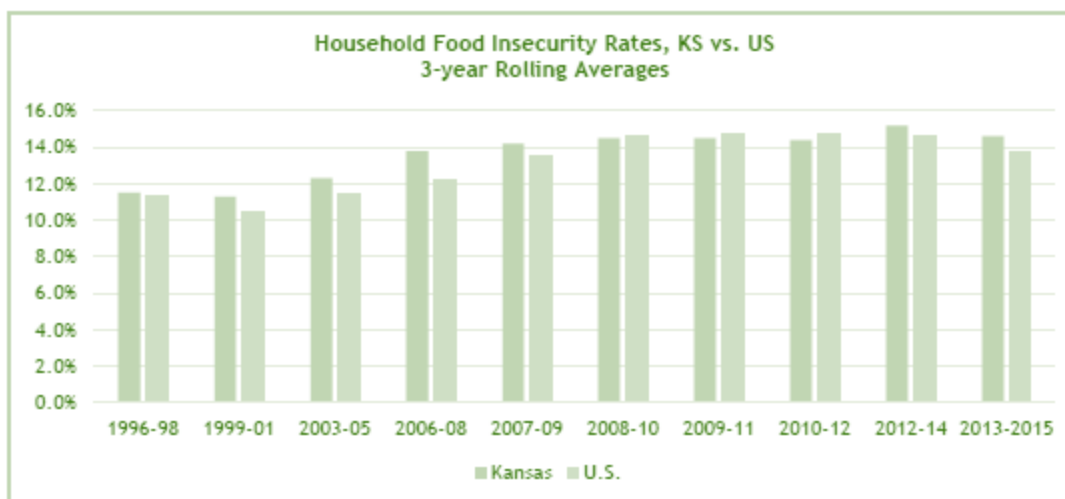
Food Deserts and Grocery Store Locations, Saline County



Affordability of Healthy Food Options

Affordability is the second component of access to healthy foods. It does little good to have an abundant supply of healthy food options if consumers in the community lack the financial means with which to purchase the food. The term '*food insecurity*' is commonly used in the United States to describe the lack of consistent access to enough food to maintain a healthy lifestyle, because of a lack of resources. Households that express anxiety or uncertainty about their ability to consistently obtain enough food are termed '*food-insecure*'. Rates of household food insecurity are measured annually at the national and state level as a component of the Current Population Survey administered by the U.S. Census Bureau.

At the National level, rates of household food insecurity increased sharply with the onset of the economic recession and have remained elevated since that time. Only since 2012 have the national rates of food insecurity begun to decrease slightly. In Kansas, rates of food insecurity exceeded national rates prior to the onset of the 2008 recession and increased further with the recession's onset. Although national food insecurity rates appear to have decreased slightly in recent years, rates in Kansas have been slower to begin decreasing.



Data Source: USDA ERS analysis of annual CPS Food Security Surveys

Statistical estimates of county-level food insecurity rates have been produced by the national food assistance organization Feeding America. The most recent estimates, from 2016, show that approximately 13.2 percent of Saline County residents (7,320 individuals) were food-insecure. About one in five children (19.8 percent, or 2,670 children) in Saline County lived in households which were food-insecure. With an average meal cost of \$2.84, the annual food budget shortfall in Saline County is estimated at \$3,551,000.

Although risk for food-insecurity is highest among lower-income households, food insecurity is not always limited to the very poor. Many working families with incomes above the poverty level still struggle to meet basic needs such as food, housing, medical care, transportation and childcare on their earnings. The Feeding America estimates suggest that 35 percent of food-insecure households in Saline County had income levels high enough that they would not be eligible for any of the food assistance programs sponsored by the Federal Government. Similarly, one-third of food-insecure children in Saline County live in families where the household income would be too high for them to be eligible for free or reduced-price school meals or for assistance through the Supplemental Nutrition Program for Women, Infants and Children (WIC) program. For these families, when help is needed, it must come from privately-funded assistance programs like Harvesters, or other food assistance or emergency meal programs in the community.

Overall and Child Food Insecurity Rate, 2016

Geographic Area	Food Insecure Individuals, Total	Overall Food Insecurity Rate	Food Insecure Children, Total	Child Food Insecurity Rate
Saline County	7,320	13.2%	2,670	19.8%
Kansas	375,360	12.9%	131,130	18.3%
United States	42,238,000	13.4%	13,118,000	17.9%

Data Source: Feeding America, Map the Meal Gap, 2016

Food Program Assistance Eligibility, 2016

Geographic Area	Food-Insecure Population, Total	Percentage of Food-Insecure Population Ineligible for Assistance	Food-Insecure Children, Total	Percentage of Food-Insecure Children Ineligible for Assistance
Saline County	7,320	35%	2,670	33%
Kansas	375,360	36.6%	131,130	34%
United States	42,238,000	26%	13,118,000	20%

Data Source: Feeding America, Map the Meal Gap, 2016

NOTE: Assistance eligibility is determined based on household income of the food insecure household relative to the maximum income-to-pay ratio for assistance programs (SNAP, WIC, school meals, CSFP, and TEFAP).

ESTIMATED PROGRAM ELIGIBILITY AMONG FOOD INSECURE PEOPLE IN SALINE COUNTY



35%	Above Other Nutrition Program threshold of 185% poverty
15%	Between 130%-185% poverty
50%	Below SNAP threshold 130% poverty

AVERAGE MEAL COST

\$2.84

ANNUAL FOOD BUDGET SHORTFALL

\$3,551,000

ESTIMATED PROGRAM ELIGIBILITY AMONG FOOD INSECURE CHILDREN IN SALINE COUNTY



34%	Likely ineligible for federal nutrition programs (incomes above 185% of poverty)
66%	Income-eligible for nutrition programs (incomes at or below 185% of poverty)

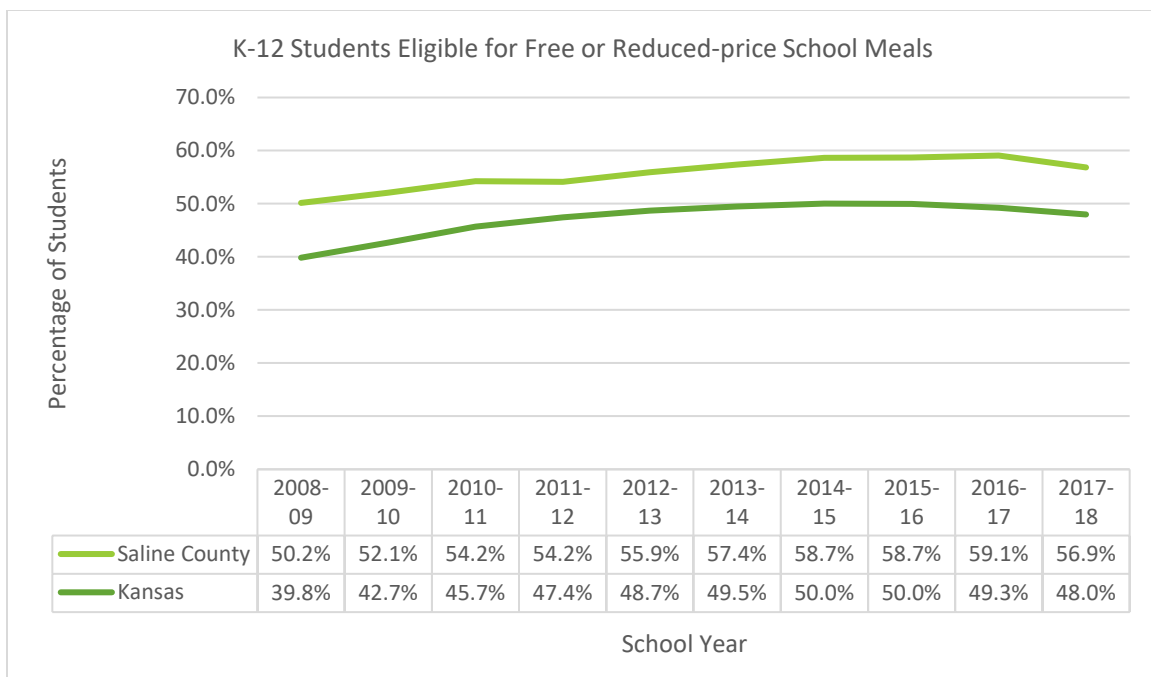
Image Source: Feeding America, Map the Meal Gap, 2016

Food Assistance Programs

In the United States, and in Kansas, a patchwork quilt of public- and private-sector programs and agencies provide food assistance to low-income families in need. Aid is provided through a variety of mechanisms, including prepared meals at schools, distribution of foods for home preparation, and vouchers or electronic benefits that may be used to purchase grocery items. These programs play a vital role in preventing food insecurity from progressing to full-blown hunger and malnutrition.

Children Eligible for Free/Reduced Price School Meals

For many low-income families, school meals provide an important source of food for children. In addition to lunches, many schools also offer breakfasts and some offer after-school snack or supper programs. Children from households where earnings are less than 130 percent of the Federal Poverty Level are eligible to receive free meals; those from households where income is between 130 and 185 percent of the poverty level qualify to purchase meals at reduced prices. In Saline County public schools, 56.9 percent of K-12 students enrolled for the 2016-2017 school term were eligible for either free or reduced-price school meals. In comparison, 48 percent of all Kansas K-12 students were eligible for free or reduced-price school meals during the same timeframe (Kansas Action for Children, n.d.).



Data Source: Kansas Action for Children, K-12 Statistics from Kansas Department of Education

Summer Meals for School-aged Children

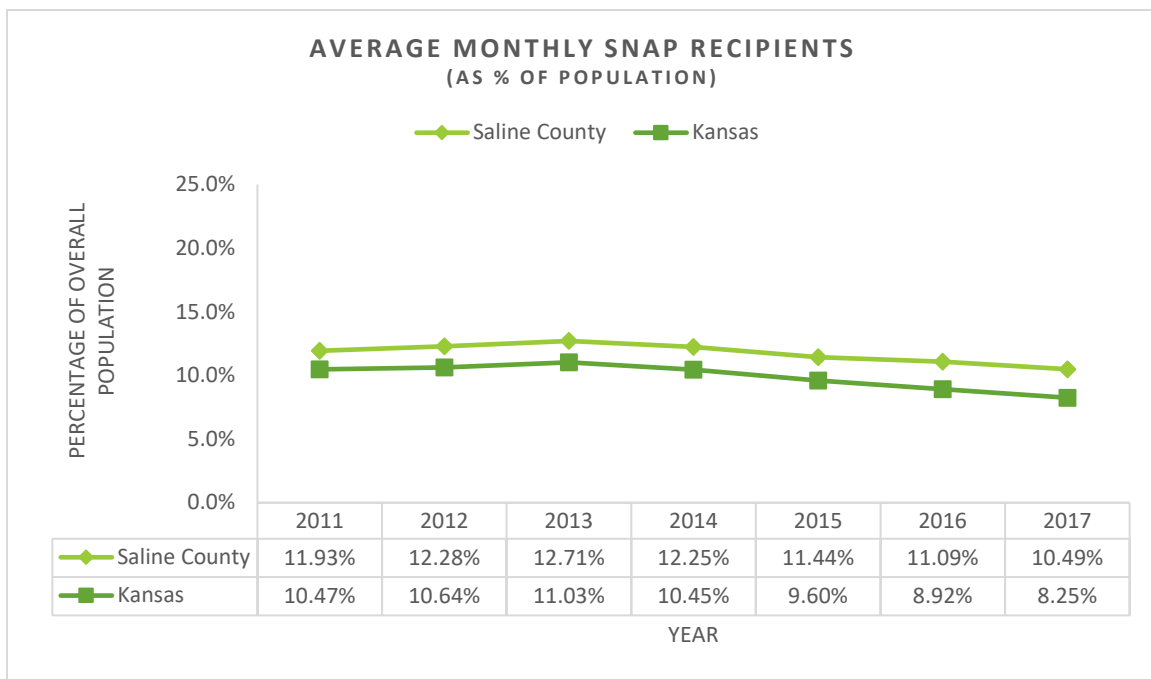
For families that rely upon free or reduced-price school meals to help feed their children, summer recess periods may create additional food hardship. The federally-sponsored Summer Food Service Program is designed to help fill that need. Under this program, all children aged 18 years and younger may receive free meals (usually lunches) at participating community sites located in areas where at least half of children qualify for free or reduced-price meals during the school year. During the summer of 2017, Summer Meal programs operated in 11 locations in Saline County in its most populous city, Salina.

Supplemental Nutrition Assistance Program (SNAP)

The SNAP program, formerly referred to as ‘food stamps’, is a federally-funded program that provides qualifying low-income families with monthly benefits in the form of a debit card that can be used to purchase foods for home use. Benefits may also be used to purchase seeds or plants to be used for growing food at home. Households must have incomes below 130 percent of the Federal Poverty level (approximately \$31,500 for a family of four) and meet other eligibility guidelines to qualify for benefits.

Most college students are not eligible to receive assistance through the SNAP program, even though their incomes may be low enough to meet the eligibility guidelines. According to the USDA Food and Nutrition Service, able-bodied students age 18 through 49 who are enrolled in college or other institutions of higher learning at least half time must meet the following conditions to qualify for assistance:

- Taking care of a dependent child
- Working at least 20 hours per week, or
- Are participating in any of several specified work training programs (USDA 2015).



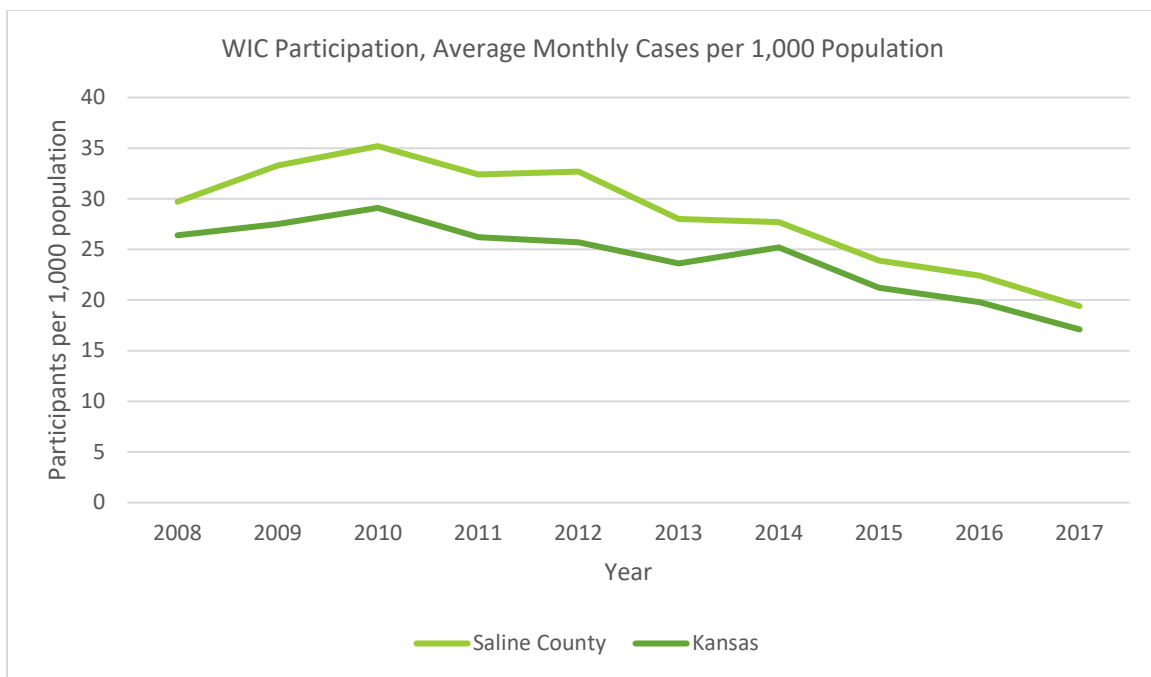
Many households that would be eligible to receive snap benefits do not apply and participate in the program. There are many reasons, including stigma of participation, burdensome paperwork associated with application, and a lack of understanding of eligibility requirements. Participation rates vary considerably between states, ranging from 51 to 100 percent in 2013. Compared to other states, SNAP participation rates (the number of participants divided by the number of eligible) in Kansas have historically been low. The U.S. Department of Agriculture estimated that in 2013, the SNAP participation rate in Kansas was 71 percent, ranking Kansas 40th among the states (Cunnyham, 2016).

During state fiscal year 2017 (July 2016 to June 2017), an average of 5,806 Saline County residents received SNAP benefits each month. The number of SNAP participants in Saline County has declined since reaching a high in Fiscal Year 2013 – these declines are similar to what has happened across Kansas in the same time. Average monthly benefits were approximately \$112.71 per participant during fiscal year 2017; the SNAP program provided a total of \$7,852,749 in food purchasing dollars to low-income families in Saline County during 2017.

SNAP benefits may only be redeemed at retail locations that have been approved by the USDA as SNAP retail vendors. As of December 2017, there were 48 SNAP retailers operating in Saline County. In addition to grocery stores, participating SNAP retailers included dollar stores and convenience stores.

The Special Supplemental Nutrition Program for women, Infants and Children (WIC)

The Special Supplemental Nutrition Program for Women, Infants, and Children– better known as the WIC Program– is a federally-funded program that serves to safeguard the health of low-income (household incomes up to 185 percent of the Federal Poverty Level) women, infants, and children up to age 5 who are at nutritional risk by providing nutritious foods to supplement their diets, information on healthy eating, and referrals to health care. Program participants are given monthly coupons or vouchers that may be redeemed at participating retail locations for specified foods. The program serves low-income pregnant, post-partum, and breastfeeding mothers as well as infants and children age 0 through 4 years. Foods that may be purchased with WIC vouchers include milk, juice, cereals, cheese, eggs, fruits and vegetables (fresh, canned or frozen), whole-grain bread, canned fish, beans, peanut butter, baby foods, and baby formula.



Data Source: Kansas Health Matters

Approximately 1,073 women and children in Saline County participated in the WIC program each month during 2017 (Kansas Health Matters, 2017). In terms of WIC participants per 1,000 population, participation rates are slightly higher in Saline County than for the state overall. The average monthly number of participants in the WIC program in Saline County has decreased in recent years; this trend is similar to those at the state and national levels. According to 2016 data, there are five retail grocery vendors in Saline County where WIC participants may use their vouchers to obtain food.

The Emergency Food Assistance Program

The Emergency Food Assistance Program (TEFAP) is a Federally-sponsored program that provides free foods to low-income households. TEFAP food is shipped five to six times per year to participating organizations for distribution. Participant organizations determine when and how often food is distributed. The foods may include canned vegetables, fruit, juice, meat, cereal, peanut butter, nonfat dry milk, and pasta. Each shipment provides a minimum of four and a maximum of 10 foods per household.

Persons who work but have low income, as well as those who do not work, are eligible for this program. Individuals seeking assistance from the TEFAP program must apply in their home county, provide proof of their amount of income and household size (if asked), and must sign a form stating that they qualify for the program. Participants may pick up food at only one location in their community.

There is currently one TEFAP distribution locations in Saline County.

TEFAP Distribution Locations in Saline County

Geographic Area	City	Location
Saline County	Salina	Sunrise Presbyterian Church

Senior Farmers' Market Nutrition Program

The Senior Farmers' Market Nutrition Program offers low-income seniors in participating locations checks or vouchers that can be used to purchase locally-grown fresh fruits and vegetables, honey, or herbs at participating farmers' markets or farm stands. Seniors are eligible to receive checks if their individual income is less than \$1,800/month and their age is 60 years or older. Seniors participating in the Commodity Supplemental Food Program (CSFP) or The Emergency Food Assistance

Program (TEFAP) automatically qualify for the Kansas Senior Farmers Market Nutrition Program. During the 2016 summer season, each participating senior in Kansas received a book of checks that could be redeemed for up to \$30 in purchases.

Private-sector Food Assistance

Food-insecure households that are not qualify for Federally-sponsored food assistance programs such as SNAP or free school meals (because their incomes are too high, or they do not meet other eligibility criteria) must rely upon private-sector charitable organizations for help. In addition, many low-income families who do receive government food assistance find that the benefits are not sufficient to meet all their food needs and seek to supplement those benefits with aid from charitable organizations.

Federal and state policy changes in recent years have tightened eligibility requirements and reduced benefits for many government-sponsored food assistance programs, resulting in increased numbers of people seeking charitable help to meet their food needs.

In addition to agencies that provide food assistance or meals on-site, several community organizations partner with Harvesters Community Food Network to host monthly food distributions through mobile food pantry operations.

Food Waste, Recycling and Recovery

Food waste is a significant problem in the United States. USDA estimates that nearly one-third (31 percent) of the available food supply at the retail and consumer levels went to waste in 2010. This equates to 133 billion pounds of wasted food and does not include on-farm losses or losses between the farm and the retailer (Buzby, 2014). The U.S. Environmental Protection Agency (EPA) estimated that food waste accounted for 21 percent of municipal solid waste in 2011, with nearly all (97 percent) of that waste going to landfills or incinerators.

Figure 7. Total MSW Discards (by material), 2011
164 Million Tons (after recycling and composting)

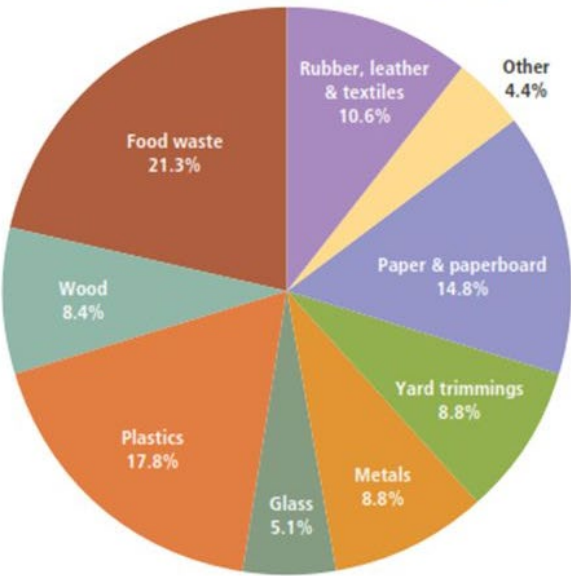


Figure 8. Total MSW Generation (by category), 2011
250 Million Tons (before recycling)

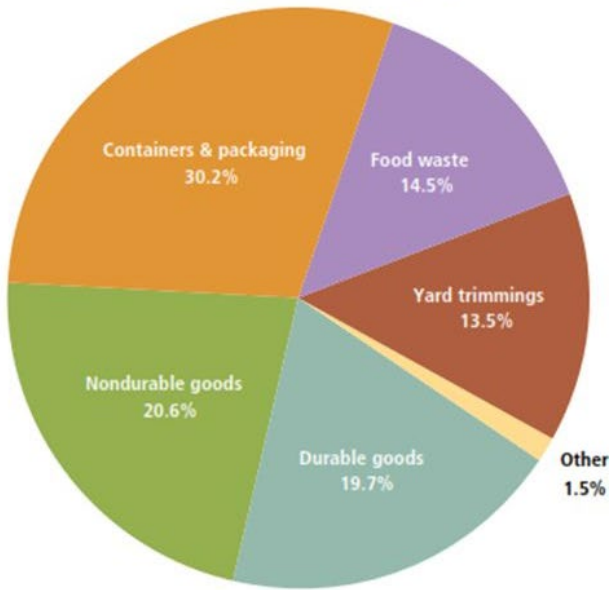


Image Source: adapted from Environmental Protection Agency, 2012

Food waste represents significant loss of money and other resources invested in food production (land, water, labor, energy and agricultural chemicals) to produce food that does not end up feeding people. Food waste occurs at all steps along the food production cycle, from farm to table. Some of the common causes of food waste are listed on the following page.

Common Food Waste causes

Farm Level

- Damage by insects, rodents, birds, or unfavorable weather conditions
- Edible crops left unharvested due to diminishing returns for additional production
- Overplanting due to difficulty estimating customer demand

Farm-to-Retail Level

- Rejection due to food safety standards or regulation
- Out-grading of blemished or imperfect foods
- Spillage and damage, improper storage
- Byproducts from food processing

Retail Level

- Dented cans, damaged packaging
- Unpurchased seasonal food items
- Spillage, breakage, bruising, inadequate storage, equipment malfunctions
- Culling of blemished or imperfect foods to meet consumer demand
- Overstocking or overpreparing

Consumer Level

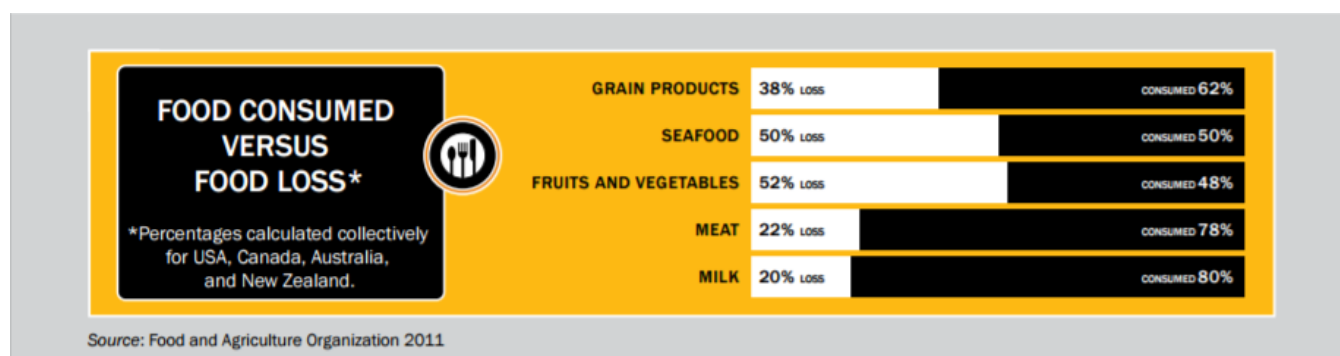
- Spillage, breakage, inadequate storage
- Confusion about “use-by”, and “best before” dates resulting in food being discarded when still safe to eat
- Consumer demand for high cosmetic standards
- Lack of knowledge about preparation, appropriate portion sizes
- Consumer tastes, attitudes and preferences leading to plate waste

In North America, there is significant waste of food by consumers at the post-retail stage, and very high per-capita losses.

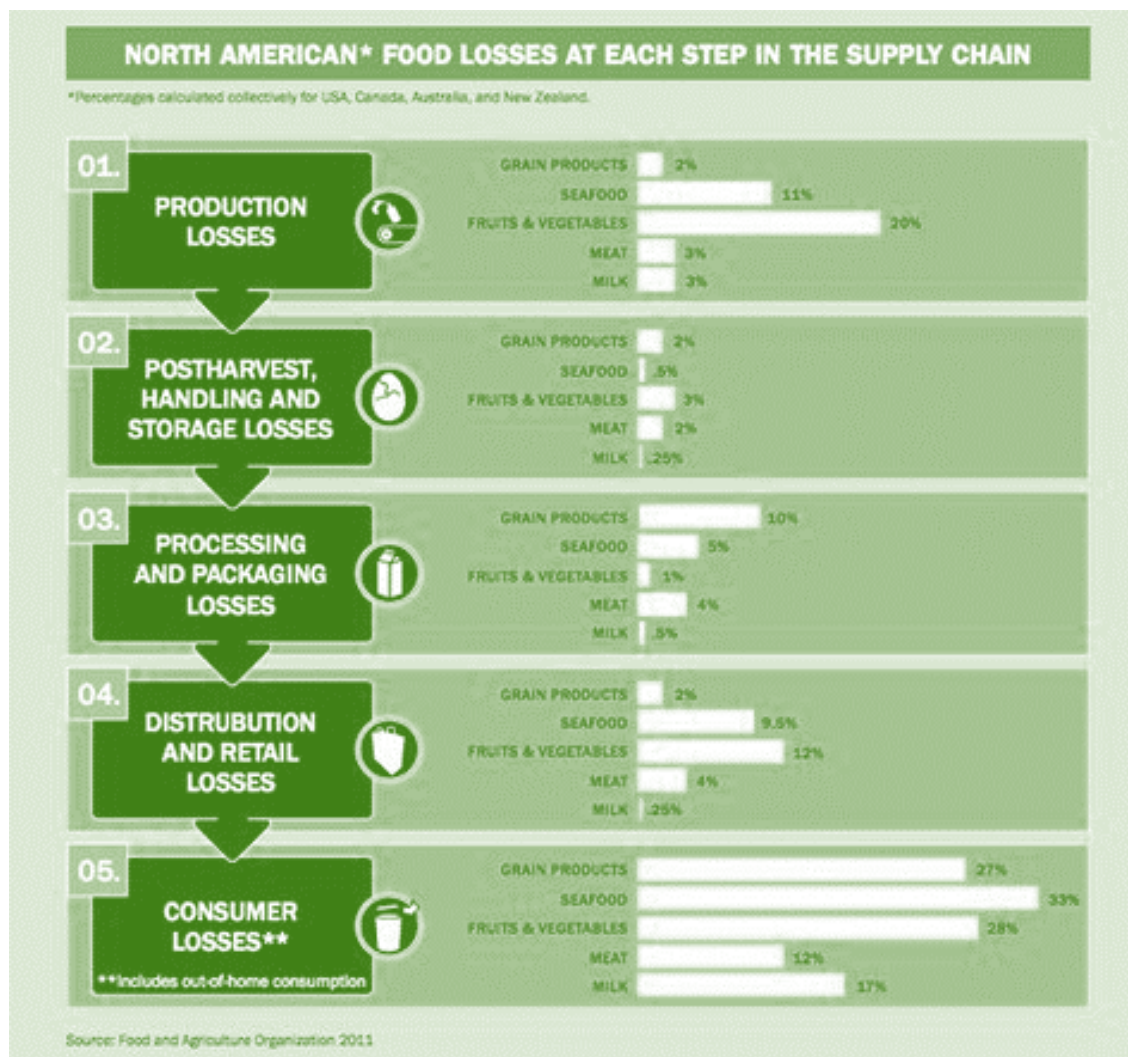


Image Source:
<https://ccafrs.cgiar.org/bigfacts/#region=North-America>

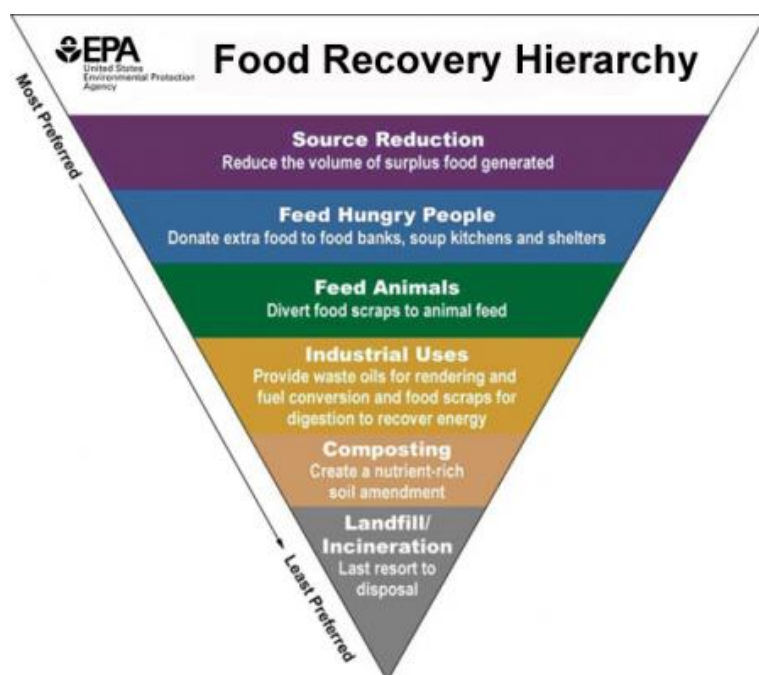
Fruits and vegetables account for a large share of food loss, with more than half of what is grown being lost to waste. Milk and meat products have the lowest loss ratios (Gunders, August 2012).



Although food loss occurs at all steps in the food production chain, consumer waste accounts for the largest share. According to a report issued by the Natural Resources Defense Council, Americans throw away about 25 percent of the food that they buy. The estimated annual cost of food waste for a family of four is between \$1,350 and \$2,275 (Gunders, August 2012).



Reducing food waste offers many benefits to a community and its residents, including financial savings, preservation of natural resources, reduced demand on waste management systems and landfills, and increased amounts of potentially wasted food diverted to feed individuals at risk for hunger. When foods or food by-products are not safe or appropriate for human consumption, they may still be usable as animal feed. Composting of food scraps and spoiled foods recovers some value from the waste stream by producing a rich soil amendment that can be used in gardens to reduce the need for chemical fertilizers. The EPA has developed a Food Recovery Hierarchy that assigns preferential order to various strategies for reducing food waste (right).



Local Estimates of Food Waste

Community-level data on food waste are not generally available. It is, however, still possible to derive an estimate of local food waste by assuming that the local patterns are similar to those at the national level. Multiplying county population numbers by national per capita food waste estimates suggest that more than 2.4 million pounds of food would be wasted annually in Saline County, with an estimated value of \$3.1 million, as shown in the table below.

Estimated level of consumer-level food waste in the United States and in Saline County			
	Pounds (annually)	Pounds (daily)	Value (annually)
Per-person basis (national)*	290	0.8	\$371
Saline County estimate**	16,046,860	44,267.2	\$20,528,914

**National figures drawn from USDA, Economic Research Service, 2010 ERS Loss-Adjusted Food Availability*

***County population estimate based upon 2013-2017 American Community Survey (Saline County population = 55,334)*

Economic Impact of the Food System

Food and food production are big business in Kansas having significant impact on the Kansas economy, both at the state and local levels. According to the Kansas Department of Agriculture, the agricultural, food and food processing business sectors in Saline County employ more than 4,300 people and contribute an estimated \$1 billion to the county's economy each year.



Image Source: <https://www.flickr.com/photos/kansasagriculture/16090086842/in/album-72157650132744038/>

There are several measures that determine the importance of various economic data. These measures include direct, indirect, and induces effects; value added; gross regional product (GRP); and output.

- **Direct effects** capture the contribution from agricultural and food products.
- **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state.
- **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.
- **Value added** is the summation of labor income, indirect business taxes, and other property income.
- **GRP** is the summation of final demand of households, government expenditures, capital, and exports **minus** imports and institutional sales.
- **Output** is the summation of intermediate inputs and value added.

Based on the most recent IMPLAN data available (2016) adjusted for 2018, there were 22 agriculture, food, and food processing sectors in Saline County supporting 2,646 jobs with a total direct output of \$835.5 million. Including indirect and induced effects, total jobs supported rises to 4,732, or 11.25 percent of the entire workforce in the county. Altogether, these sectors provide \$1.13 billion, or approximately 39.49 percent of the economy. Another important metric used to calculate importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 22 sectors was approximately \$348.8 million, or 12.23 percent of the total economy (Kansas Department of Agriculture, 2018).

Agriculture, Food, and Food Processing Sector Estimated Contribution in Saline County (2018)

Impact Type	Employment	% of Employment	Total Value Added	Total Value Added % of Gross Regional Product	Output	Output % of Gross Regional Product
Direct Effect	2,646.1	6.29%	\$185,956,019	6.52%	\$835,452,375	29.30%
Indirect Effect	1122.5	2.67%	\$94,258,872	3.31%	\$172,517,627	6.05%
Induced Effect	936.2	2.29%	\$68,565,484	2.41%	\$117,988,305	4.14%
Total Effect	4,731.7	11.25%	\$348,780,376	12.23%	\$1,125,958,307	39.49%

Data Source: Kansas Department of Agriculture, Kansas Agriculture's Economic Impact, 2018

Data illustrating various economic measures related to the Saline County food system are included in this section.

Farm Sales

During 2012, Saline County farms reported total sales of farm products valued \$84 million. Crops accounted for 70.5 percent of total sales. The per-farm average market value of farm products sold by Saline County farms was \$152,259 in 2012.

Market Value of Products Sold, 2012

Geographic Area	Farms, 2012	Total Sales	Crop Sales	Livestock Sales	Average per farm
Saline County	674	\$84,424,000	\$59,490,000	\$24,934,000	\$125,259

Data Source: U.S. Census of Agriculture

Government Farm Payments

In addition to income from the sale of farm products, many farms receive payments from various federal government programs. In 2012, 206 Saline County farms reported receiving federal government payments that totaled \$3,461,000.

Consumer Expenditures on Food

Everyone must eat, and most households purchase the majority of their food. Food purchases represent a significant contribution to the local economy. Saline County residents spend an estimated \$88.3 million annually on food.

Annual Consumer Spending on Food, 2012

Geographic Area	Total Spending	Spending on Food at Home	Spending on Food Away from Home
Saline County	\$143,195,556	\$88,292,477	\$54,903,066

Data Source: Business Decision system, estimates derived from the Consumer Expenditure Survey, Bureau of Labor Statistics, 2012

Government Food Assistance Programs

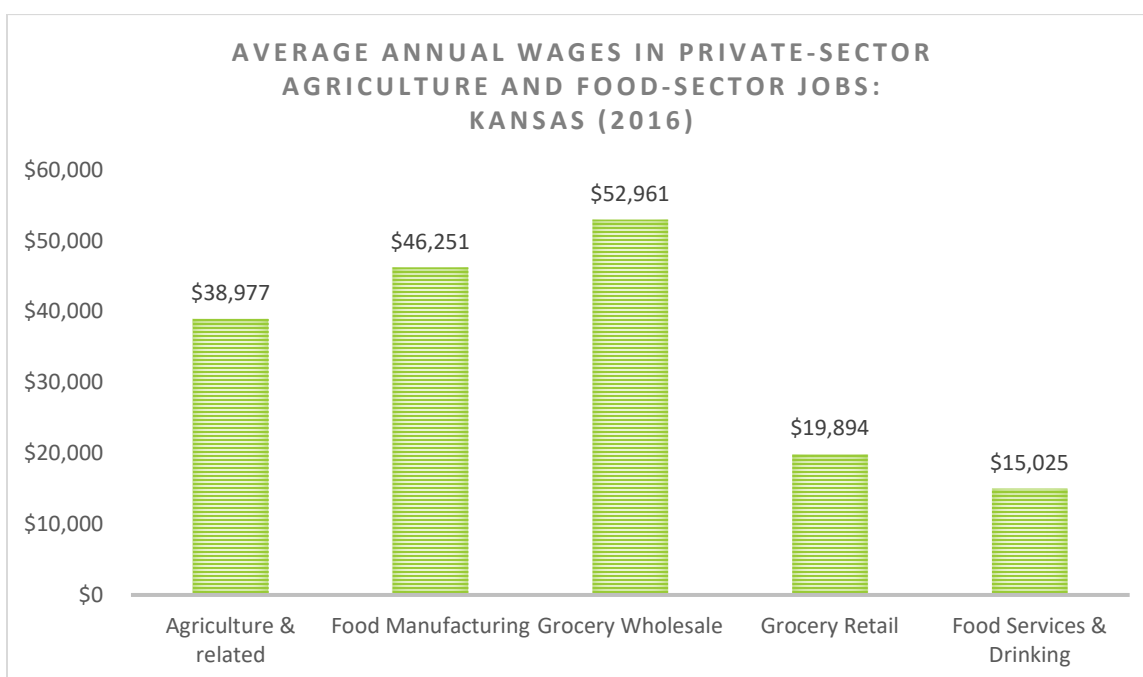
Government-sponsored food assistance programs also provide a significant infusion of dollars into the local economy. Through either direct reimbursement for the cost of meals served (as in school meals) or providing consumers with additional money to spend on food purchases (SNAP and WIC benefits), those dollars support jobs and increase retail sales within the community. As those dollars circulate through the local community, they generate additional economic benefit. USDA economists estimate that each \$5 in SNAP benefits infused into a community generates approximately \$9 in economic activity.

Geographic Area	SNAP Benefits Disbursed, 2017	SNAP Benefits Disbursed, 2016	SNAP Redemptions, 2012	WIC Redemptions, 2012
Saline County	\$7,852,749	\$8,278,558	\$217,063	No data

*Data Source: SNAP benefit disbursement from Kansas Department of Children and Families, Annual County Pocket Reports
SNAP and WIC redemption data derived from USDA FNS data tables*

Food-sector Employment

Food production, and food-related businesses also create jobs which employ community members and infuse money into the local economy. Data from the U.S. Bureau of Labor Statistics provide detailed information about the types of businesses operating in a location, the number of individuals employed by those businesses, and their earnings. As illustrated in the graph and tables below, average worker earnings in food-sector jobs vary significantly by the type of work. In Kansas, jobs in food manufacturing and grocery wholesale pay significantly better than jobs in grocery retail or food service businesses.



Data Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages

Employment and Wages in Agricultural and Food Sectors, 2016

	Ag, Forestry, Fishing & Hunting	Food Manufacturing	Grocery & Related Wholesalers	Retail Grocery Stores	Food Services & Drinking Places
Establishments	13	4	8	7	113
Employees	ND	ND	80	ND	2,416
Total Wages (in thousands)	ND	ND	\$3,583,301	ND	\$845,384
Avg. Annual Pay	ND	ND	\$44,885	ND	\$5,895

Data Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages

ND = Data are suppressed to prevent disclosure of information about individual businesses

Although U.S. Bureau of Labor Statistics data on food sector employment in Saline County is limited, the Kansas Department of Agriculture estimates that in the top ten agriculture, food, and food processing sectors by employment, the frozen specialties manufacturing sector was the top employer in 2016 with 984 employees. The table below also shows the amount of jobs that are created by the agriculture industry in Saline County (Kansas Department of Agriculture, 2018).

Top 10 Agriculture, Food and Food Processing Sectors by Employment (2016)

Sector	Total Employment	Total Output
Frozen specialties manufacturing	984.2	\$361,974,176
Farm machinery and equipment manufacturing	595.9	\$308,306,603
Wholesale trade	399.6	\$71,360,492
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	357.8	\$25,130,792
Landscape and horticultural services	208.4	\$11,070,388
Grain farming	142.6	\$31,185,217
Truck transportation	89.3	\$15,084,870
Full-service restaurants	84.8	\$3,939,886
All other crop farming	80.1	\$3,608,395
Limited-service restaurants	78.7	\$6,112,549

Data Source: Kansas Department of Agriculture, Kansas Agriculture's Economic Impact, 2018

The other animal food frozen specialties manufacturing sector directly contributes approximately \$362 million to the Saline County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry (Kansas Department of Agriculture, 2018).

Top 10 Agriculture, Food and food Processing Sectors by Output (2018 estimate)

Sector	Total Employment	Total Output
Frozen specialties manufacturing	984.2	\$361,974,176
Farm machinery and equipment manufacturing	595.9	\$308,306,603
Wholesale trade	399.6	\$71,360,492
Flour milling	399.6	\$71,360,492
Grain farming	142.6	\$31,185,217
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	357.8	\$25,130,792
Owner-occupied dwellings	-	\$170,009,509
Management of companies and enterprises	70.7	\$16,742,100
Oilseed farming	24.8	\$15,247,765
Truck transportation	89.3	\$15,084,870

Data Source: Kansas Department of Agriculture, Kansas Agriculture's Economic Impact, 2018

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Saline County economy.

All Agriculture, Food and Food Processing Sectors (2018 estimate)

Sector	Total Employment	Total Output
Oilseed farming	24.8	\$ 15,247,765
Grain farming	142.6	\$ 31,185,217
Vegetable and melon farming	0.2	\$ 27,377.25
Fruit farming	2.4	\$ 120,793.45
Tree nut farming	0	\$ 16.56
Greenhouse, nursery, and floriculture production	1.5	\$ 11,277.25
All other crop farming	80.1	\$ 3,608,395
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	357.8	\$ 25,130,792
Dairy cattle and milk production	2.2	\$ 514,114.40
Poultry and egg production	0.5	\$ 245,143.50
Animal production, except cattle and poultry and eggs	13.9	\$ 1,015,595.24
Commercial logging	17.3	\$ 790,194.13
Commercial hunting and trapping	35.4	\$ 718,773.26
Flour milling	40.5	\$ 55,876,972.83
Frozen specialties manufacturing	984.2	\$ 361,974,176
Bread and bakery product, except frozen, manufacturing	39.5	\$ 4,757,688.01
Frozen cakes and other pastries manufacturing	2.5	\$ 394,214.75
Wineries	4	\$ 1,211,005.38
Farm machinery and equipment manufacturing	595.9	\$ 308,306,603
All other industrial machinery manufacturing	17.5	\$ 4,744,715.73
Veterinary services	74.9	\$ 8,399,664.33
Landscape and horticultural services	208.4	\$ 11,070,388.15

Data Source: Kansas Department of Agriculture, Kansas Agriculture's Economic Impact, 2018

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Saline County, the retail sector was omitted (Kansas Department of Agriculture, 2018).

Equity Issues in the Food System

Health equity issues have received much attention from public health practitioners and philanthropic organizations in recent years. When closely scrutinized, health outcomes measures identify many situations where some segments of the population suffer poorer health outcomes related to issues of social disadvantage or inequity. Similarly, inequities can be identified in the food system, many of which may contribute to disparities in health outcomes. Aspects of the food system where equity issues are frequently identified are outlined briefly in this section. More detail on many of these issues is available in the main body of this report.

Farming and Food Production

- Access to land, capital and financing, especially for young or minority farmers
- Access to water rights
- Farmworker compensation and working conditions, particularly for field hands and immigrant workers

Food System Infrastructure

- Hazardous conditions in meat processing facilities, often employing immigrant or minority workers

Food Retail (processing, manufacturing, distribution)

- Low wages in retail grocery stores
- Low wages in food and beverage operations

Consumer Access to Healthy Food Options

- Underserved locations, food deserts – in urban areas, usually low-income areas. Rural residents may also be underserved and have challenges accessing healthy food options
- Pricing differentials, higher prices often in underserved communities
- Food insecurity (families that cannot afford to buy enough food, high-quality food) – rates of food insecurity are markedly higher for minority households, single parent households, disabled individuals
- Stigma, loss of dignity for individuals who participate in food assistance programs

These equity issues, and others not included in this list, will not apply equally to every community. Community-level issues will likely vary with the types of agriculture and food production in practice in the location, the types of food processing businesses in the area, and socio-demographic characteristics of the population such as racial/ethnic diversity, poverty rates, and educational attainment. In Kansas, the issues of safe working conditions and fair wages for fieldworkers are less salient because the vast majority of crop production is commodity crops that require less hands-on labor. In some parts of Kansas, however, working conditions and safety concerns at meat packing facilities are cause for concern. Many communities in Kansas have locations where residents lack physical access to retail stores that offer healthy foods, and all Kansas counties have community members who cannot afford to buy enough food to feed themselves and their families. The data included in this report describe some of the more widespread food equity issues in Kansas, including lack of access to grocery retail outlets, food insecurity, and low wages in some sectors of the food system.

Community-based Data Collection: Online Surveys and Focus Groups

Online Survey Process and Summary

During the months of June and July 2018, the North Central Kansas Food Council launched a survey within the 12-county region to collect additional data directly from a broad cross-section of local community members. A survey questionnaire was designed by the contracted consultant, working in collaboration with representatives of the Council. When the questions had been finalized, survey questionnaires were developed in both paper and electronic (online) formats.

The survey was open for approximately 10 weeks. Survey promotion took place through face-to-face platforms and online. North Central Regional Planning Commission utilized an intern to distribute paper surveys at county fairs and to local businesses and organizations in collaboration with key community partners such as K-State Research and Extension. North Central Kansas Food Council members also assisted with survey distribution in their respective communities. The link to the online survey was featured on the North Central Regional Planning Commission website where community members could easily access it. North Central Regional Planning Commission staff and a Council member entered data from paper surveys by hand. Data from surveys completed on paper forms were entered into the online survey system prior to analysis.

A total of 4,449 individuals from the 12-county region participated in the North Central Kansas Food Council Community Food Survey. The survey featured 20 questions across a range of topics. Of the total respondents, 2,282 Saline County residents participated and fully responded to one of the 20 questions; 19 questions were partially completed.

Because the survey employed a non-random, convenience sampling approach, the results of the survey may not be representative of the county population as a whole. One way to increase likely representativeness of a convenience sample is to obtain a larger group of survey responses; the 2,282 completed responses to the survey within Saline County would be expected to produce estimates with a margin of error of $\pm 5\%$. Comparison of the demographic characteristics of survey

respondents to the Saline County population suggest that the survey results may be somewhat under-representative of males, for example.

Nevertheless, the results represent an important cross-section of community member perspectives and voices and contribute to an overall understanding of the food environment and community member needs in Saline County. Survey participants have provided many comments which provide valuable insights regarding their satisfaction with the current Saline County food environment and where they would like to see changes.

The following are highlights from the online survey. Note, however, that this does not include all question responses.

Demographics

- Of 4,499 respondents in the 12-county North Central Kansas area, Saline County accounted for 2,282 (50.72%) of all responses.
 - Survey respondents account for 5.6% of the Saline County population 18 years or older.
- Respondent age: <25 years (6.95%); 25-44 years (38.3%); 45-64 years (34.7%); 65+ years (20%)
- Respondent sex: female (73.3%); male (26.7%)
- Respondent household sizes: 1-2 (53.6%); 3-4 (29.2%); 5 or more (17.2%).
- Approximately 90% of respondents live in a town as opposed to outside of city limits.
- Approximately 59% of respondents grew up in a different county.

Food Access

- Approximately 66.6% of respondents live less than 2 miles from a grocery store; approximately 88.5% live less than 5 miles away from a grocery store.
- Where multiple responses were allowed, approx. 54% of survey responses cited no issues accessing food.
 - Approximately 35.4% of all survey responses cited affordability as an issue.
- Approximately 80.27% of respondents cited they do not use public benefits or other strategies to acquire food.
 - Approximately 10.3% of respondents indicated SNAP or WIC utilization.
- When asked what preferred food access channels would be, the top four responses were:
 - **several small corner stores** (65.6%);
 - **one large supermarket** (58%);
 - **community gardens that sell fruits and vegetables** (37%); and
 - **Dollar Store with fresh fruits, vegetables, and proteins** (35.1%).
- Approximately 40.6% of respondents would be interested in subscribing to a delivery service for food grown or produced regionally.

Dietary Habits

- Only 1.3% and 4.3% of survey respondents eat the recommended 5 servings of fruits and vegetables, respectively, per day.
 - Approximately 47.2% of respondents eat 1 or fewer servings of fruit daily.
 - Approximately 34.8% of respondents eat 1 or fewer servings of vegetables daily.

Shopping Behaviors & Preferences

- Nearly half (44.4%) of survey respondents spend less than \$300 on groceries per month
- When asked where groceries are purchased, the top three responses were: **supermarkets** (93.7%); **supercenters** (63.1%); and **farmers' markets** (29.2%).
 - Aldi's was a popular write-in
- Approximately 94.42% of respondents spend the majority of their grocery dollars at either a **supermarket** (73.4%) or **superstore** (21.1%).
- When asked about the most important considerations for purchasing food, the top four were:
 - **freshness** (83%);

- **affordability** (80%);
- **variety** (50%); and
- **healthy selection** (44.8%)

Local Foods Economy

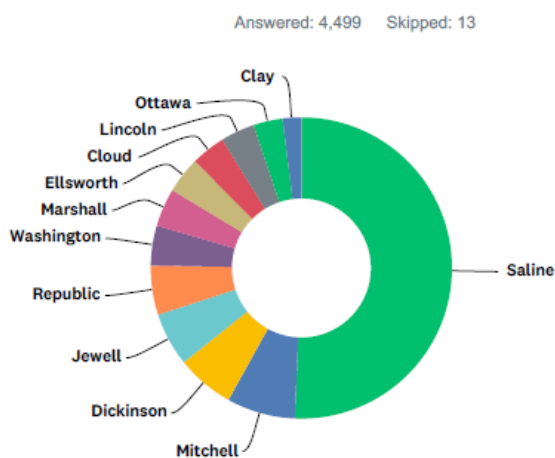
- Approximately 85.4% of survey respondents do not grow, raise, or produce food or food-based products for public sale.
 - Approximately 11.5% of respondents produce vegetables.
- Survey respondents agree or strongly agree that they would be more likely to purchase regionally grown or produced foods if...
 - They knew it was healthy for them (88.6%)
 - They knew it would benefit the local economy (91.1%)
 - They knew it was better for the environment (89.7%)
 - There was a wider variety of to choose from (90.1%)
 - They knew who grew it (76.4%)
 - They knew where they could purchase it (90.2%)

Communications

- When asked what the preferred communications channels for learning about local foods are, the top four responses were:
 - **word of mouth** (62.2%);
 - **flyers or bulletins** (43.3%);
 - **Facebook** (41.8%); and
 - **newspaper** (33.7%).
- Online was a popular write-in. This included specifics such as sponsored ads, electronic newsletter, Land of Kansas website, KSAL, Salina Post, YouTube.

Responses to Survey Questions

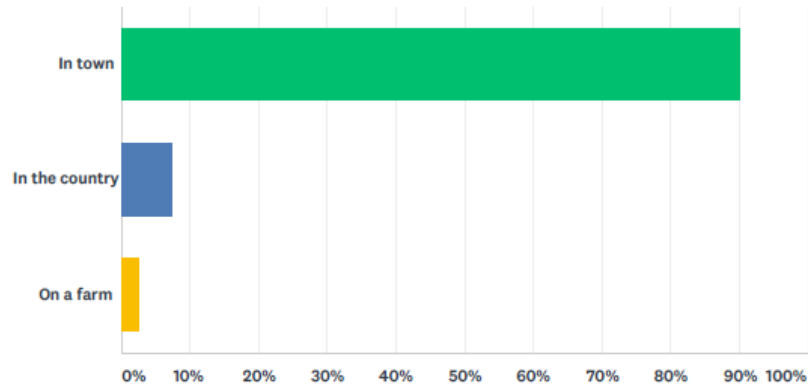
Q1 Which county do you currently live in?



Answer Choices	Responses	Count
Saline	50.72%	2,282
Mitchell	7.33%	330
Dickinson	6.20%	279
Jewell	5.73%	258
Republic	5.29%	238
Washington	4.27%	192
Marshall	4.09%	184
Ellsworth	3.91%	176
Cloud	3.67%	165
Lincoln	3.65%	164
Ottawa	3.13%	141
Clay	2.00%	90
TOTAL		4,499

Q2 Which of the following best describes where you live in your county?

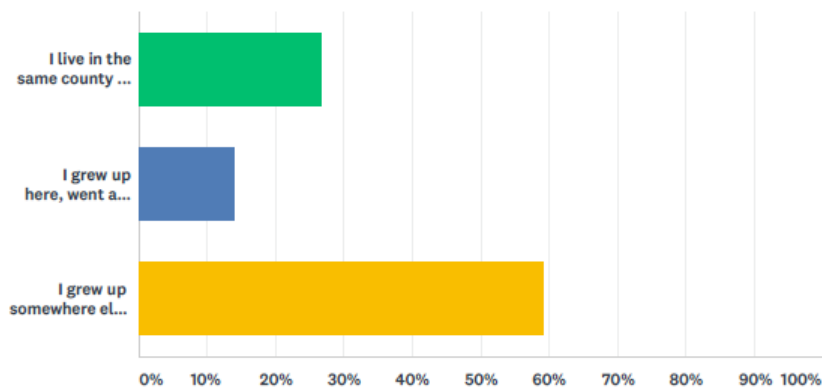
Answered: 2,273 Skipped: 9



ANSWER CHOICES	RESPONSES	
In town	90.19%	2,050
In the country	7.26%	165
On a farm	2.55%	58
TOTAL		2,273

Q3 Which of the following best describes your relationship to the county you live in?

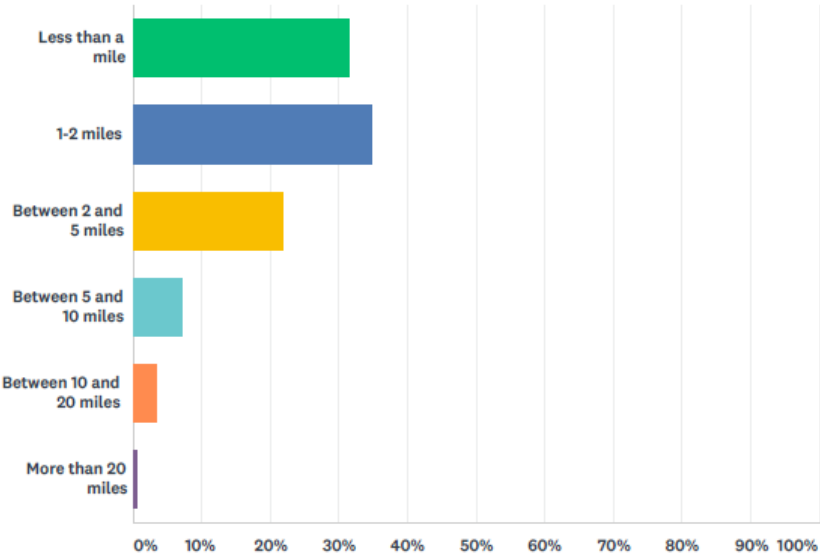
Answered: 2,274 Skipped: 8



ANSWER CHOICES	RESPONSES	
I live in the same county I grew up in	26.78%	609
I grew up here, went away and came back	14.12%	321
I grew up somewhere else and moved here	59.10%	1,344
TOTAL		2,274

Q4 How far away are you from the closest location where you purchase fresh foods?

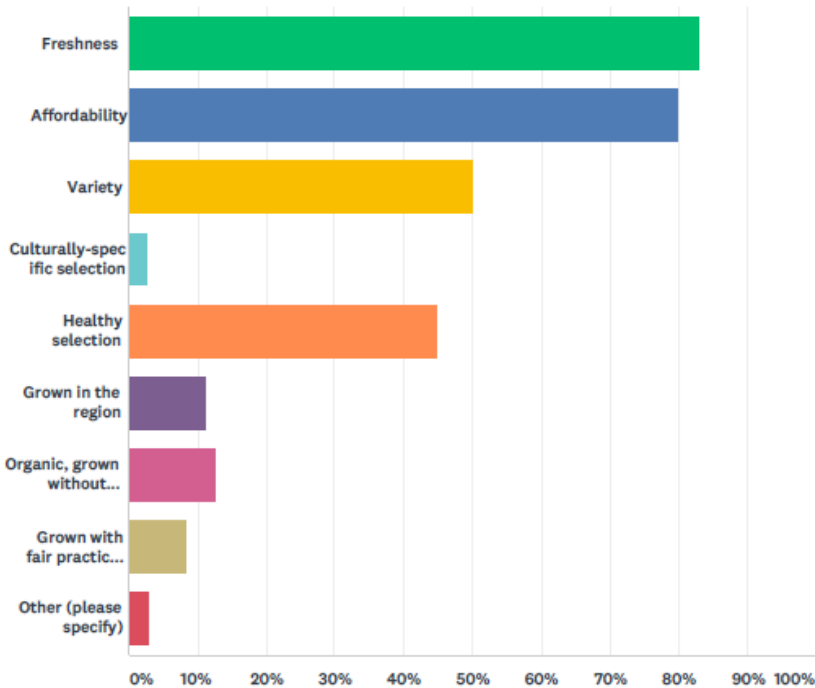
Answered: 2,278 Skipped: 4



ANSWER CHOICES	RESPONSES	
Less than a mile	31.61%	720
1-2 miles	34.94%	796
Between 2 and 5 miles	22.04%	502
Between 5 and 10 miles	7.20%	164
Between 10 and 20 miles	3.56%	81
More than 20 miles	0.66%	15
TOTAL		2,278

Q5 What is most important to you when purchasing food? Please choose three.

Answered: 2,279 Skipped: 3



ANSWER CHOICES	RESPONSES	
Freshness	83.02%	1,892
Affordability	79.99%	1,823
Variety	49.98%	1,139
Culturally-specific selection	2.68%	61
Healthy selection	44.80%	1,021
Grown in the region	11.10%	253
Organic, grown without man-made fertilizer or pesticides or GMO-free	12.64%	288
Grown with fair practices (i.e., farmer workers paid fairly)	8.29%	189
Other (please specify)	2.98%	68
Total Respondents: 2,279		

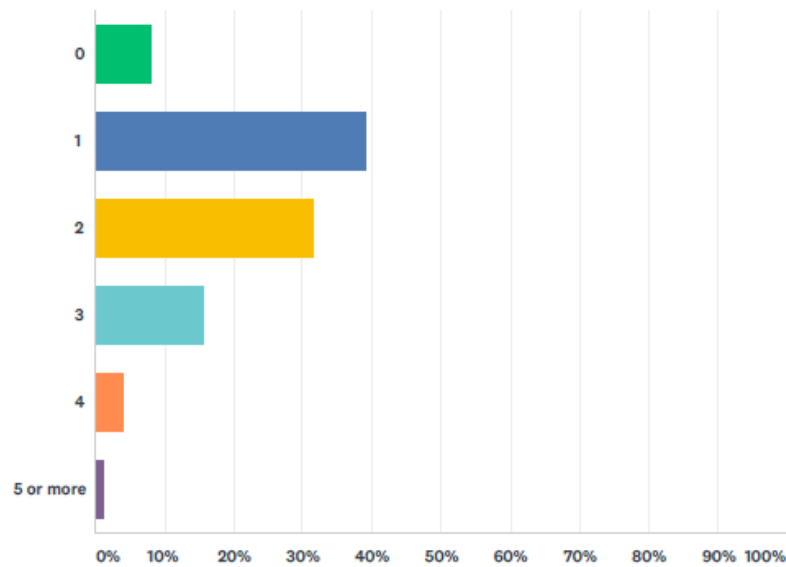
#	OTHER (PLEASE SPECIFY)
1	Gluten free
2	Ripe
3	where i live shelter, hotel
4	Closest proximity
5	exactly what i am looking for
6	what 2 sons will eat
7	what my family will eat

8	taste, easy to prepare
9	non GMO
10	convenience / fast customer service
11	Ready to eat
12	cost
13	If it tastes good
14	taste good
15	location
16	availability
17	shopping is not my turf
18	Pre-packaged/pre-made
19	Grown in USA
20	price availability
21	like to from local producers when possible & affordable
22	my wife shops
23	eat or fix in a meal within a week so less waste
24	I'd like to know what's for sale locally. For all the counties, are you looking for something to do together or each their own project?
25	quality of fruit
26	Package size. I am single.
27	ease
28	I help at the food bank. Education all in the participating counties on the Bob Boxes for Sr. would be a good project.
29	What about supporting the farmer?
30	quick and easy
31	Would help to have definitions of healthy, grown in the region, etc.
32	You should talk to students, kids.
33	2 kids like
34	taste, quick
35	family tastes
36	what my kids will eat
37	Quantity with quality
38	Most healthy/fresh is too expensive!
39	Fast, taste
40	Quick
41	Wife purchases
42	Whole grain items such as breads etc
43	Taste
44	Taste
45	Taste
46	easy to get to

47	Whatever I can afford
48	Location
49	Lots of carbohydrate
50	Grown in USA
51	What my wife puts on the grocery list.
52	animal welfare/animal health/what the animal was fed/health of the soil = basically substantially grown
53	I purchase fresh produce and meats at the farmers market here on Salina located in the Waters Tru Value parkinglot
54	There are so many recipes I have to modify or skip because I have a hard time finding a lot of ingredients here. There's not enough variety.
55	Food that I want
56	Produced in USA
57	Gluten, soy & high fructose corn syrup free, organic
58	no specific driving force
59	It tastes good
60	convenience...are they near by
61	Must be irrigated with non-fluoridated water and protected from toxic chemical overspray from agricultural, industrial, commercial and residential air pollutants.
62	Quality--some brand loyalty, other perceived benefits
63	Affordability and freshness
64	Flavor Quality
65	ability to avoid plastic containers, such as bulk and other options
66	preferably grown in the U.S. & safe to eat (no e coli, etc)
67	Vegetarian/vegan
68	My family farms organically and I utilize their production (out of area).

Q6 One serving of fruit is about equal to one cup fresh or ½ cup dried. On average, how many servings of fruit do you eat per day?

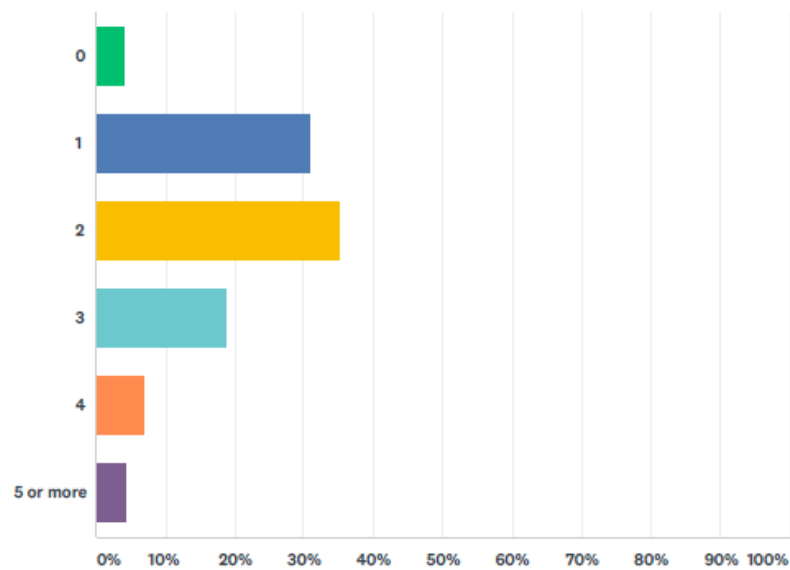
Answered: 2,267 Skipped: 15



ANSWER CHOICES	RESPONSES	
0	8.16%	185
1	39.04%	885
2	31.50%	714
3	15.79%	358
4	4.23%	96
5 or more	1.28%	29
TOTAL		2,267

Q7 One serving of vegetables is about equal to ½ cup dried or cooked, or one cup of leafy greens. On average, how many servings of vegetables do you eat per day?

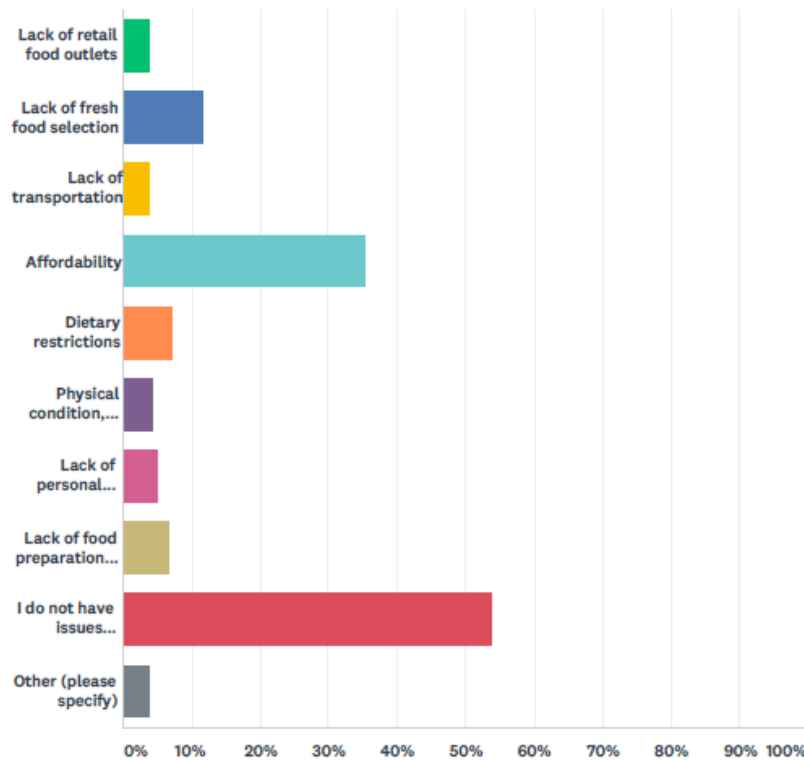
Answered: 2,269 Skipped: 13



ANSWER CHOICES		RESPONSES	
0		4.10%	93
1		30.67%	696
2		35.13%	797
3		18.82%	427
4		6.96%	158
5 or more		4.32%	98
TOTAL			2,269

Q8 What barriers make it harder for you to access food? Please check all that apply.

Answered: 2,271 Skipped: 11



ANSWER CHOICES		RESPONSES	
Lack of retail food outlets		3.70%	84
Lack of fresh food selection		11.76%	267
Lack of transportation		4.05%	92
Affordability		35.40%	804
Dietary restrictions		7.05%	160
Physical condition, including age		4.45%	101
Lack of personal storage or equipment		5.11%	116
Lack of food preparation knowledge		6.74%	153
I do not have issues accessing food.		53.72%	1,220
Other (please specify)		3.87%	88

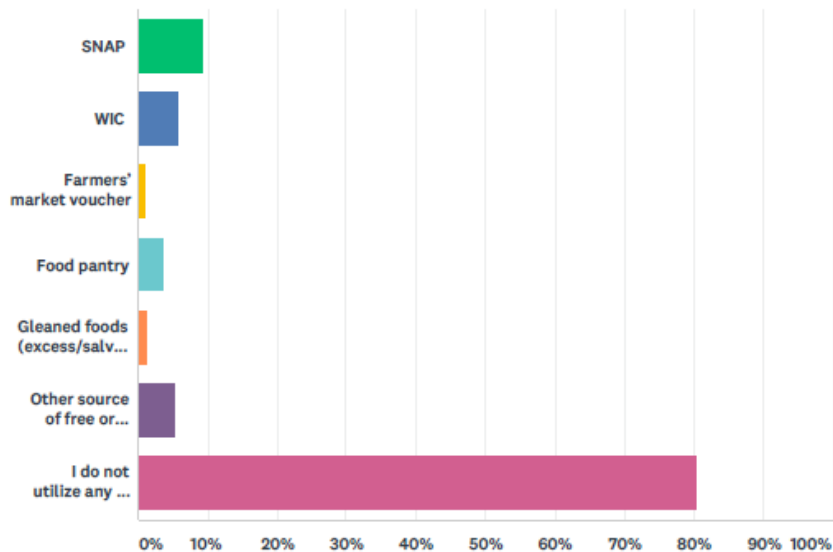
#	OTHER (PLEASE SPECIFY)
1	-no answer-
2	Not ripe
3	too many people
4	Never home, work a lot
5	money
6	small children along to store

7	busy farm life
8	Lack of time
9	time
10	Only one that restrains me is that I work a lot makes it hard to get better meals in
11	lack of GMO food at reasonable price
12	Convenience, busy with family and work
13	Busy schedule
14	Money
15	Time
16	time
17	time
18	no license no car
19	Distance
20	i live in a retirement home
21	I have a person who shops for groceries
22	Time barriers, being to busy, rushed
23	not enough money
24	I don't like to take the time to cook
25	Toxic food production system
26	money
27	priorities - to eat out or fix meal or reheat food at home.
28	Need more in North Salina.
29	I don't like most fruits, vegetables, many things. According to National Geographic, I think I am a "super taster."
30	I don't like most fruits, vegetables, many things. According to National Geographic, I think I am a "super taster."
31	I am short and its hard to reach
32	n/a
33	i am lazy
34	When I have extra garden produce, how to share without getting into trouble?
35	year round local food
36	Where is local food sold?
37	what kids will eat
38	Doesn't stay fresh long enough/lack of time to go get more
39	Time to prepare and eat healthier!
40	Lack of time
41	Lack of how to get funding for growing year round ; government processes and cost
42	lack of fresh fruits and vegetables grown locally year round
43	convenience
44	I don't buy it in huge quantity because it goes bad
45	time

46	Processed foods
47	i dont have a car so i can only bring home so much
48	Job/school
49	local selection is limited
50	Lack of money
51	Known cancer causing pesticides that are sprayed on products.
52	I'm on the keto diet. It is very restrictive.
53	Lack of local farmer markets and size
54	I work too many hours to adequately plan healthy meals
55	People lock up food and don't let me have any. Also limited amount of money.
56	Lack of appetite
57	family that doesn't cooperate with lifestyle and eating changes
58	Time
59	Crappy paying job
60	I dont like to drive far
61	just living out in the country- far from Farmer's markets, Prairieland Market, Jako Farm, etc.
62	No money Ashby house keeps our food stamp cards
63	B: especially fish for organic/non-gmo/non gluten/soy non processed, etc.
64	Lack of local organic/sustainable options
65	Dont like to go to the storrr
66	Time
67	I check prices before purchasing
68	Low pay in my state job where my benefits cost \$2000 more in 6 months then what I take home for my family
69	Cooking only for myself since my spouse died: lack of motivation.
70	Time to shop and prepare
71	The sales tax in KS really cuts into my food budget.
72	lack of access to humanly raised animal products (milk, meat, eggs, etc)
73	Wish we had a Whole Foods
74	Culture
75	Time
76	Affordability of healthy foods
77	Lack of interesting variety
78	Time
79	Not enough time for choices
80	Convenience - full time student and full time worker
81	I dont like to go to the store
82	There are no local community gardens. Farmer's Markets are pricey.
83	I don't like to go to the store.
84	Dislike fighting the crowd at Wal-Mart at the end of a long day at work, so would be nice if a smaller local store were available & affordable in my local small town
85	So much goes to waste if I buy it.
86	Living alone, being able to buy small enough quantities that the food doesn't go bad before I eat it
87	Local produce is expensive and lacks variety.
88	I think there is a gap between farmers and urban people when it come to food issues. Bothe have different issues. Neither talk to each other very well. Result: Poor local availability of food offerings.

Q9 Do you or anyone in your household currently use the following?
Please check all that apply.

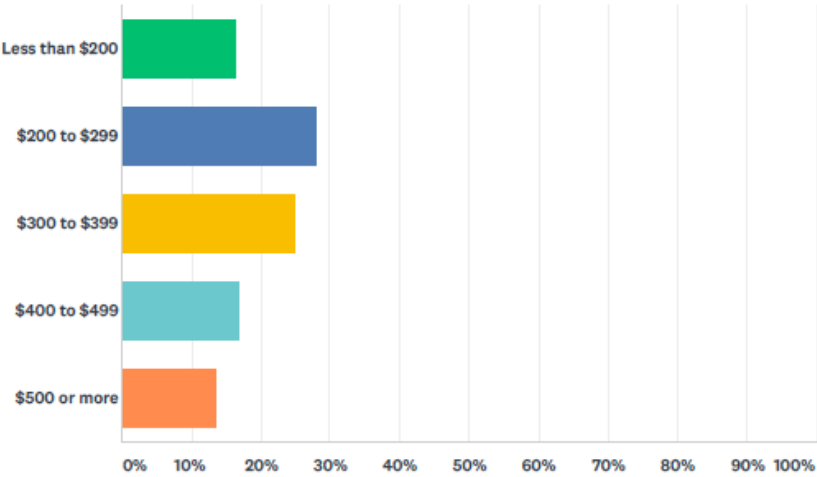
Answered: 2,266 Skipped: 16



ANSWER CHOICES	RESPONSES	
SNAP	9.44%	214
WIC	5.83%	132
Farmers' market voucher	1.15%	26
Food pantry	3.53%	80
Gleaned foods (excess/salvaged food items collected from farms, gardens, grocery stores, etc.)	1.24%	28
Other source of free or discounted food (i.e., church, community meals, etc.)	5.25%	119
I do not utilize any of these options.	80.27%	1,819
Total Respondents: 2,266		

Q10 About how much does your household spend on groceries per month?

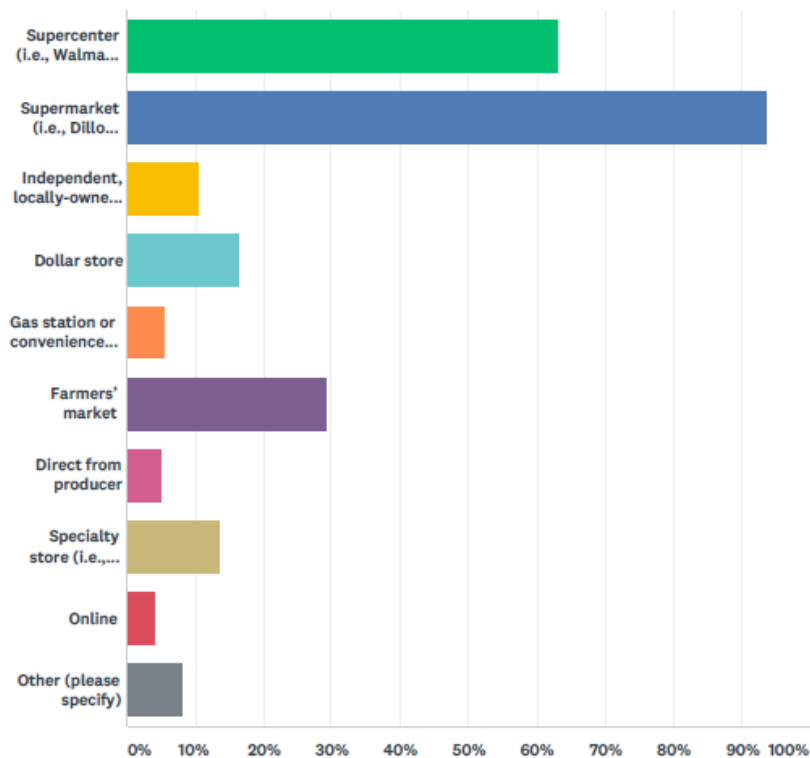
Answered: 2,268 Skipped: 14



ANSWER CHOICES	RESPONSES	
Less than \$200	16.40%	372
\$200 to \$299	28.04%	636
\$300 to \$399	24.96%	566
\$400 to \$499	16.93%	384
\$500 or more	13.67%	310
TOTAL		2,268

Q11 Where do you purchase groceries? Please check all that apply.

Answered: 2,280 Skipped: 2



ANSWER CHOICES		RESPONSES	
Supercenter (i.e., Walmart, Sam's Club)		63.07%	1,438
Supermarket (i.e., Dillons, IGA stores)		93.64%	2,135
Independent, locally-owned grocery store (i.e. Ray's Apple Markets)		10.44%	238
Dollar store		16.32%	372
Gas station or convenience store		5.44%	124
Farmers' market		29.21%	666
Direct from producer		5.00%	114
Specialty store (i.e., bakery, butcher, ethnic)		13.51%	308
Online		4.21%	96
Other (please specify)		8.25%	188
Total Respondents: 2,280			

#	OTHER (PLEASE SPECIFY)
1	Food Bank
2	Aldi
3	Aldi's
4	Own garden
5	Aldi's
6	Aldi

7	Aldi
8	Schwans
9	Gueros carniceria
10	Grow own beef
11	Aldi
12	Aldi
13	Save A Lot
14	Aldi

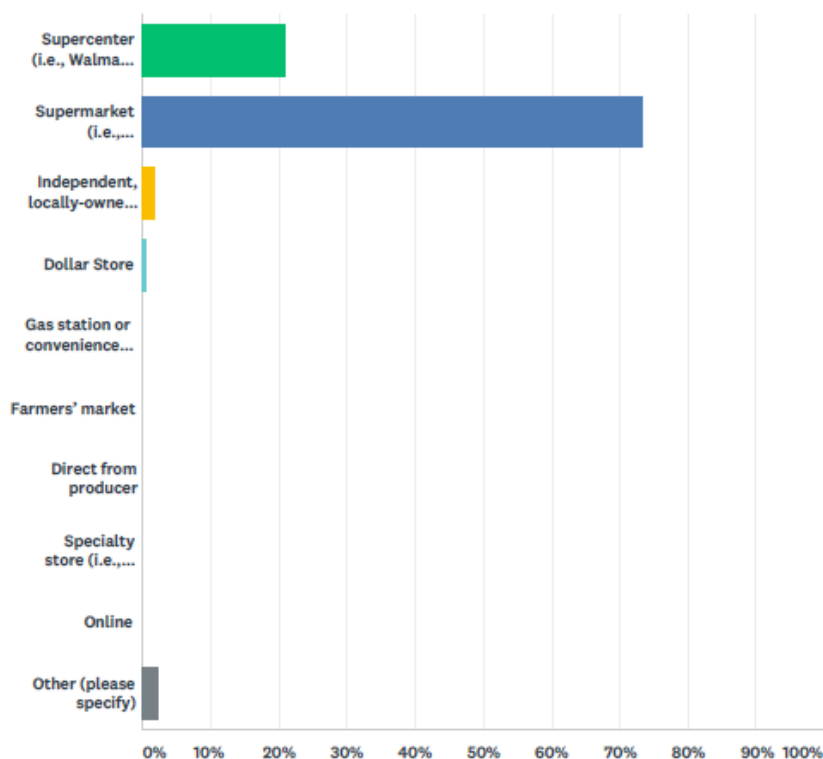
15	CSA	59	save alot
16	Save A Lot	60	Aldi's
17	PrarieLand Coop	61	Big lots
18	Grown own beef	62	We're guilty of not making the extra trip to Smoky River Meats and instead settling for one stop and often getting lesser quality at a grocery store.
19	Aldi	63	I also have a garden
20	Fast food	64	Aldee's
21	Target	65	Aldee's
22	Aldis	66	Aldis
23	personal garden	67	have a garden
24	Aldis	68	Save A Lot
25	Salvation Army	69	Aldi's
26	Also, Braum's milk	70	Aldi's
27	Aldis	71	Aldi's
28	Aldis	72	Aldi's
29	Save a lot	73	Aldi's
30	Braums	74	discount bread store
31	Dollar Tree, Brahms	75	Aldi's
32	Save a lot	76	Aldi's
33	Aldis	77	Wichita
34	nothing written in	78	Aldi's
35	-	79	Your group could market all the local producers.
36	Aldi's	80	ALDIS
37	Aldi's	81	Aldi's
38	Aldi's	82	commissary
39	Aldi's	83	whole foods
40	Aldi's	84	Where are farmers markets?
41	Aldi's	85	Aldi
42	Aldi's	86	drive to cities with more options, so out of town
43	Aldi's	87	Smoky River Meats
44	garden	88	Garden
45	Braum's	89	Aldis
46	save alot	90	Aldi
47	Aldi's	91	Braum's
48	scwans	92	Aldi
49	Big Lots	93	Aldi
50	Prairieland	94	Aldis
51	Aldi's	95	Aldi
52	Aldi	96	Aldi's
53	Aldi	97	Aldi
54	save alot	98	Braums
55	save alot		
56	meals on wheels, food pantry		
57	Aldi's		
58	food co-op		

99	Aldi's	142	Aldi's
100	Seraphim Bakery	143	Scott's in Lindsborg ks, Krehbiels Meats-McPherson
101	Cooperative (Prairieland)	144	Food bank
102	Prairieland Market	145	Try to avoid Supermarket as much as possible. Use Thrive Market a lot (even though not local) and use Farmer's markets & Jako Farm the most
103	Grow my own		
104	Aldi	146	Aldi
105	Aldis	147	health food markets
106	Savealot	148	Bread store
107	Aldi	149	We go to Manhattan for the People's Market
108	Aldi	150	Ashby house purchases
109	Aldis	151	Schwan's
110	Overstock store	152	Hunting and fishing
111	Aldi	153	Dillons drives me CRAZY...they stop carrying lost of items that are healthier...all the time!!!
112	Schwans and Aldi's	154	Prairie Land Market Salina, KS
113	Aldi	155	eggs and some veggies from coworkers
114	Bakery outlet store for bread and bread products		
115	Produce own food	156	Aldi's
116	Aldi	157	Prairieland Market
117	Local natural food store	158	Prairieland Market
118	Aldi	159	Prairieland Market
119	Look it up online	160	Bountiful basket but closed down now
120	Aldis	161	Save a lot
121	Food cooperative	162	Hello Fresh
122	Aldi	163	Prairieland Market
123	Aldi	164	Where and when
124	Braum's	165	Aldi
125	Prairie Land Market	166	Sams
126	Brown's	167	Aldi
127	Prairieland Market	168	Aldi
128	Meal delivery - Purple Carrot		
129	Home grown		
130	Aldi's		
131	Farmers market if I can get there before they close		
132	Restaurants		
133	Aldi's		
134	Aldi's		
135	Aldi's		
136	Aldi		
137	We have a garden and freezer		
138	Aldi's		
139	Have our own beef		
140	Prairieland		
141	Save-a-lot		

169	Aldis
170	New store named Aldi's
171	Local food co-op
172	Home grown, drive 200+ miles round trip to Wichita stores
173	Aldis
174	My own garden
175	PrairieLand Co-op
176	Aldi's & Bountiful Baskets
177	PrairieLand Market, Salina. We are subscribers to the market Community Supported Agriculture (CSA) program.
178	PrairieLand
179	Aldi and Dollar General
180	my own garden
181	We grow our own in our garden.
182	we have a garden, my husband hunts
183	Aldi and co-op
184	Prairie land market
185	Aldi's
186	PrairieLand Market
187	PrairieLand Market
188	From family. From Save-A-Lot

Q12 Where do you spend the majority of your grocery dollars?

Answered: 2,197 Skipped: 85

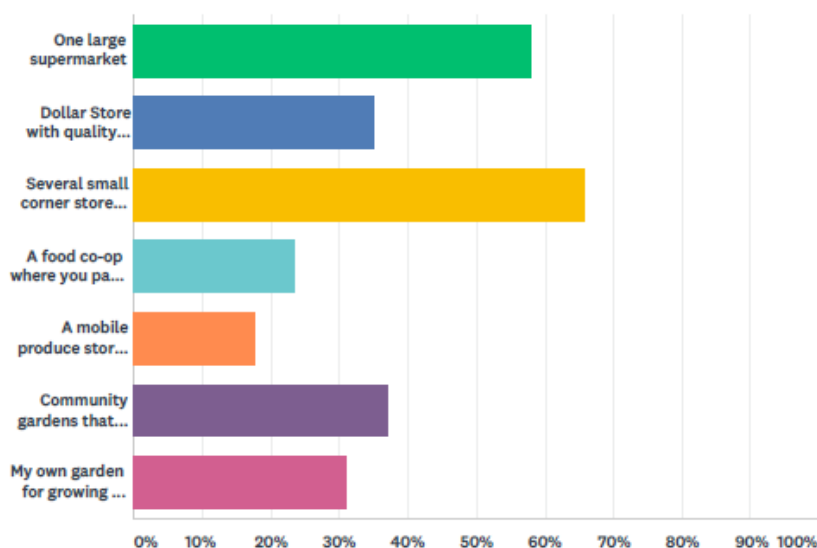


ANSWER CHOICES	RESPONSES	
Supercenter (i.e., Walmart, Sam's Club)	21.07%	463
Supermarket (i.e., Dillon's, IGA stores)	73.42%	1,613
Independent, locally-owned grocery store (i.e. Ray's Apple Markets)	1.91%	42
Dollar Store	0.55%	12
Gas station or convenience store	0.23%	5
Farmers' market	0.14%	3
Direct from producer	0.05%	1
Specialty store (i.e., bakery, butcher, ethnic)	0.05%	1
Online	0.23%	5
Other (please specify)	2.37%	52
TOTAL		2,197

#	OTHER (PLEASE SPECIFY)		
1	Aldi	30	Aldi
2	Aldi's	31	Aldis
3	Aldi	32	Aldi's
4	Aldi	33	Aldi's
5	Costco Wichita	34	Aldi
6	Gueros carniceria	35	Aldi
7	Aldi	36	Save-a-lot
8	Aldis	37	Aldi
9	Save a lot	38	Aldi
10	Aldis	39	Aldi
11	Aldi's	40	Aldi's
12	Aldi's	41	Save a lot
13	Aldi's	42	Aldi's
14	Aldi's	43	farmers market when seasonally open and local Smoky Hill Meats
15	save a lot	44	Aldi's
16	Aldi's	45	Aldi's
17	Aldi's	46	Aldi
18	Aldi's	47	Aldi
19	Aldi	48	Aldis
20	save a lot	49	Aldi's
21	save a lot	50	Wichita stores
22	meals on wheels, food pantry	51	Aldi's
23	Aldi's	52	Aldi's
24	Aldi's		
25	Aldi's		
26	Aldi's		
27	Aldis		
28	commissary		
29	whole foods		

Q13 What kind of food access would you prefer in your community? Please choose three.

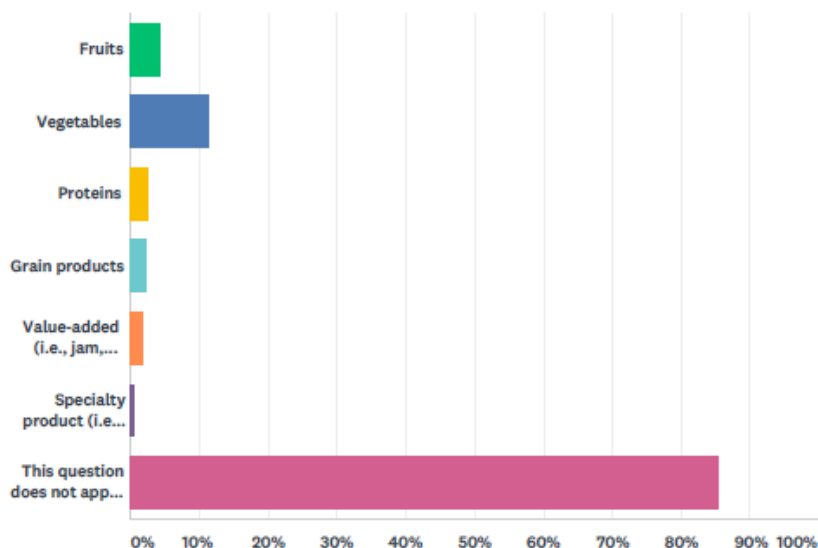
Answered: 2,267 Skipped: 15



ANSWER CHOICES	RESPONSES	
One large supermarket	58.01%	1,315
Dollar Store with quality fresh fruits, vegetables, and proteins	35.07%	795
Several small corner stores with quality fresh fruits, vegetables, and proteins	65.59%	1,487
A food co-op where you pay in advance to have food delivered from farms to a specific pick-up location year round	23.42%	531
A mobile produce store that comes to your neighborhood	17.87%	405
Community gardens that sell vegetables and fruit	36.97%	838
My own garden for growing my own food	31.14%	706
Total Respondents: 2,267		

Q14 Do you grow, raise, or produce any of the following food or food-based products to sell to the public? Please check all that apply.

Answered: 2,258 Skipped: 24



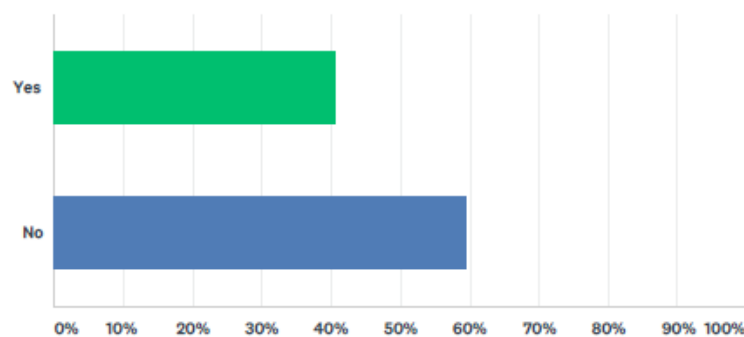
ANSWER CHOICES	RESPONSES	
Fruits	4.38%	99
Vegetables	11.47%	259
Proteins	2.70%	61
Grain products	2.39%	54
Value-added (i.e., jam, bread, salsa, etc.—please specify below)	1.90%	43
Specialty product (i.e. candles—please specify below)	0.53%	12
This question does not apply to me.	85.43%	1,929
Total Respondents: 2,258		

#	IF YOU SELECTED VALUE-ADDED OR SPECIALTY PRODUCT ABOVE, PLEASE SPECIFY.
1	Salsa
2	-
3	Herbs
4	salsa, jam, pickles, etc.
5	pickles
6	Herbs
7	crochet hot pads
8	4-H
9	4-H projects
10	bread
11	herbs
12	Can and freeze lots of my produce
13	Bel Tree Farm has fruit trees. Contact the new owners.
14	Year-round farmers markets should be a choice above.
15	The school is starting a culinary program. You should talk to them.
16	Don't like Dollar Store but I don't shop at the others.
17	will your group do something about the tax on groceries?

18	gluten free bread and baked goods, salsa, herb and spice blends
19	Salsa
20	above question should have a locally-owned option
21	Vegetable garden not selling items
22	grains to elevator that end up for the consumer
23	Kombucha
24	Beef
25	Salsa, bruschetta, sauces
26	we make our own jam/jelly, bread without yeast
27	Salsa, breads
28	Jam
29	I give away my vegetables
30	beef, pork, chicken
31	Eggs
32	Flour. Meats.

Q15 Would you be interested in subscribing to a delivery service for food grown or produced regionally?

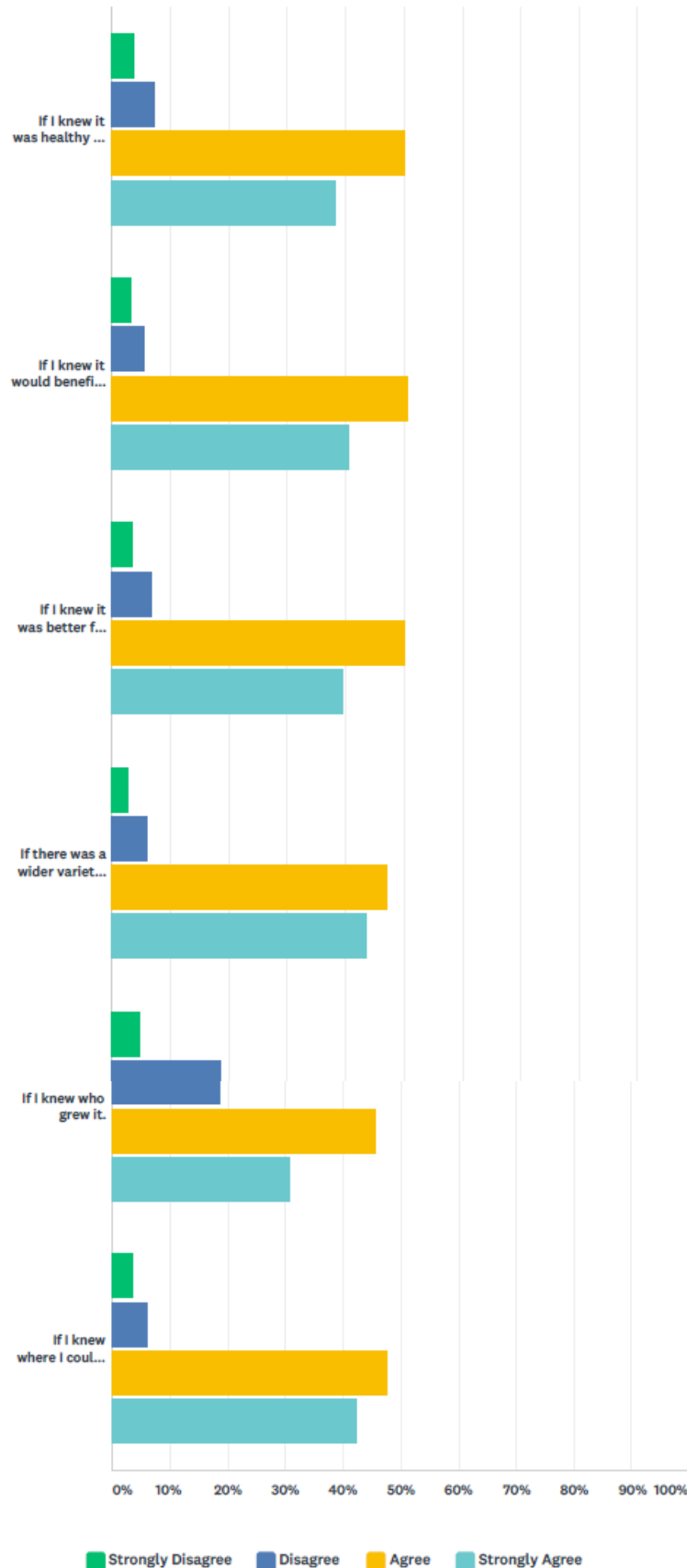
Answered: 2,253 Skipped: 29



ANSWER CHOICES	RESPONSES	
Yes	40.61%	915
No	59.39%	1,338
TOTAL		2,253

Q16 Please indicate whether you agree or disagree with the following statements:I would be more likely to purchase regionally grown or produced foods...

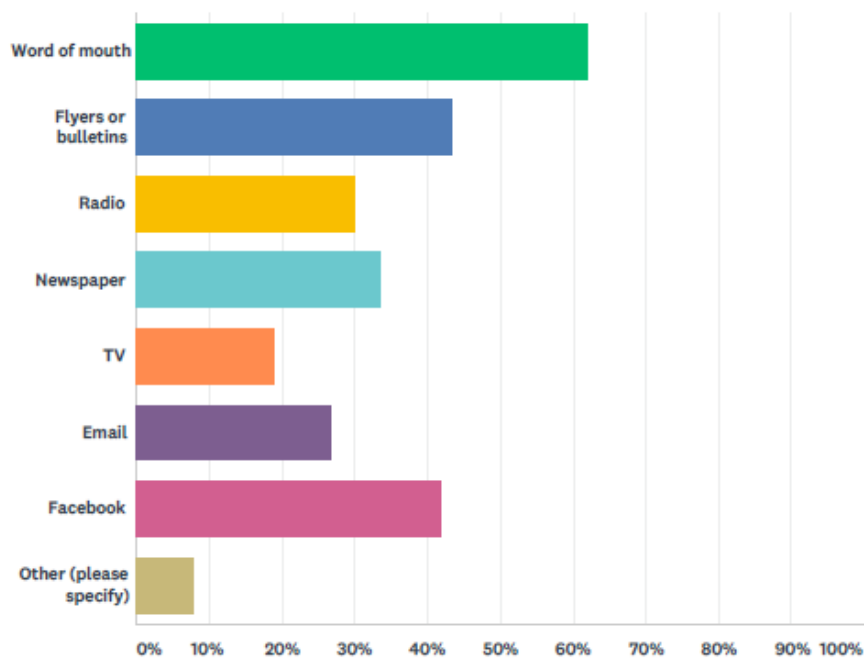
Answered: 2,261 Skipped: 21



	STRONGLY DISAGREE	DISAGREE	AGREE	STRONGLY AGREE	TOTAL
If I knew it was healthy for me.	3.89% 87	7.37% 165	50.25% 1,125	38.50% 862	2,239
If I knew it would benefit my community's economy.	3.25% 73	5.61% 126	50.56% 1,136	40.59% 912	2,247
If I knew it was better for the environment.	3.49% 78	6.85% 153	50.13% 1,120	39.53% 883	2,234
If there was a wider variety to choose from.	2.90% 65	6.21% 139	47.07% 1,054	43.81% 981	2,239
If I knew who grew it.	4.98% 111	18.63% 415	45.60% 1,016	30.79% 686	2,228
If I knew where I could buy it.	3.54% 79	6.27% 140	47.72% 1,066	42.48% 949	2,234

Q17 How do you prefer to learn about local foods? Please check all that apply.

Answered: 2,249 Skipped: 33



ANSWER CHOICES	RESPONSES	
Word of mouth	62.16%	1,398
Flyers or bulletins	43.31%	974
Radio	30.06%	676
Newspaper	33.70%	758
TV	19.08%	429
Email	26.72%	601
Facebook	41.84%	941
Other (please specify)	8.00%	180
Total Respondents: 2,249		

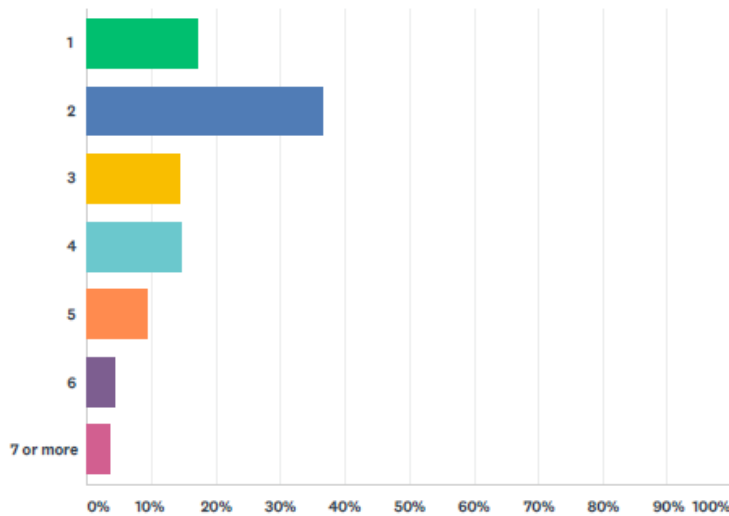
#	OTHER (PLEASE SPECIFY)		
1	smartphone notices	44	Instagram
2	online	45	PTO, Food Stands
3	online	46	highlight local thru ads online sponsored/boost
4	online	47	just say'n - Salina Journal
5	online	48	any way that help
6	online	49	cable ads
7	Phone	50	Currents
8	-no answer-	51	co-workers, friends, if that's word of mouth
9	internet	52	twitter
10	-no answer-	53	local cable channel ads
11	phone	54	internet
12	-no answer-	55	letter to editor
13	phone	56	cell phone numbers, web addresses
14	-no answer-	57	web listing
15	Twitter	58	twitter
16	art center, electronic billboards, movie ads	59	online ads
17	chamber	60	some other way
18	social media	61	Online Ads
19	web	62	Snap Chat
20	internet	63	SnapChat
21	Ads, Snapchat, Twitter	64	online
22	Signs	65	church
23	internet	66	Online
24	online	67	Twitter, apps, through technology, not print
25	online	68	Dillons Ad
26	online	69	iphone
27	online	70	cable
28	online	71	in the store
29	online	72	iphone
30	not sure	73	Only shop at one store
31	online	74	Master Gardeners
32	Internet	75	coffee shop
33	web ads	76	banners
34	twitter	77	mailings, do something!!
35	build your brand, use technology, phones	78	online
36	KFB, electronic newsletters from reliable source		
37	use a quote from Pat Roberts to promote; use social media		
38	magazines like Successful Farming, Kansas Farmer, High Plains Journal		
39	online Land of Kansas		
40	sale barn		
41	K-State newsletter, extension specialist, master gardeners		
42	snapchate instagram		
43	on-air personality, ad on Most Wanted page on-line radio web/news pages		

79	county fair	123	on the iPhone or laptop
80	YouTube, Ask KWU to help	124	Buyers guide
81	e-newsletter, internet	125	twitter, online news and radio stations sites
82	4-H, Ambucs, Lions, Rotary, Church	126	use new technology - everyone's on their phones
83	web/iphone/internet	127	ads
84	promo video	128	on line news pages, ads
85	print matter	129	iPhone. Feast on the Fe is local food for example.
86	twitter	130	only have iPhone
87	web	131	online news pages, Salina Post, KSAL
88	Cable	132	twitter, on line ads
89	farm forum	133	On line
90	Coop, car shop, spouse	134	internet search
91	app	135	websites; what is definition of local?
92	online, ksai.com, Access TV, yard signs, salinapost		
93	Menu items, partner with businesses like Ad Astra		
94	Permanent Signs		
95	Get a local celebrity to promote, an influencer on twitter		
96	Headstart	136	High Plains Journal
97	photo with Hannah Holt on radio	137	#13 you need to take out Dollar in the store option.
98	editorial	---	There are other options you could have listed.
99	Instagram Twitter	138	twitter, sponsored ads
100	family	139	Internet
101	snapchat	140	Internet
102	Instagram	141	I dont
103	table tents at Martinelli's	142	Wife
104	Heartland	143	Twitter
105	Ad Astra	144	Prairieland Market
106	yard signs	145	Instagram
107	e-newsletter, Country Living Magazine	146	Drive by--visible signage
108	Fair Parade	147	Community Twitter Accounts
109	web - ksai & Salina Post	148	Senior center
110	my wife	149	Senior center
111	any reliable source	150	Twitter
112	Church community garden	151	Internet
113	Online	152	Announcement
114	Signage	153	Any social media
115	iphone		
116	n/a		
117	news sites-salina post		
118	friends		
119	ads		
120	A web-site that I could peruse at my convenience		
121	Library		
122	internet - web sites for sale ads, specials		

154	I would be likely to buy from someone locally if I knew people that have bought from them. I would trust "word of mouth" more than a flyer or an email. The newspaper is all but dead
155	internet, other than facebook
156	Applications
157	Just go to the store
158	IPhone
159	Phone
160	Phone
161	Community garden networking
162	Billboard/Signage
163	ksallink, salina post
164	Google
165	visit and check out myself
166	Website
167	Just know farms market is here
168	social media
169	don't really care/ too expensive to buy
170	wife
171	None
172	Community groups
173	Internet
174	Coupons
175	Agencies like The Salvation Army
176	I would attend an informational community meeting, if there was such a thing.
177	No preference
178	i dont
179	Mail - not sure if flyers and bulletins would be distributed by mail
180	Not TV.

Q18 How many people live in your household?

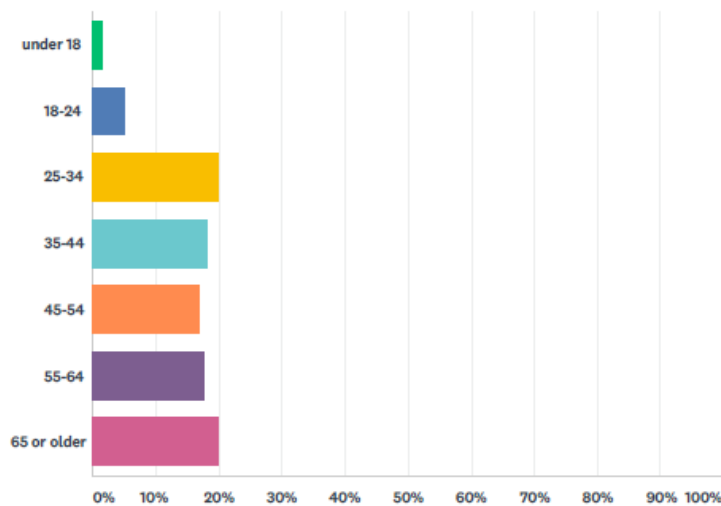
Answered: 2,267 Skipped: 15



Answer Choices	Responses	Count
1	17.07	387
2	36.52	828
3	14.47	328
4	14.69	333
5	9.35	212
6	4.41	100
7 or more	3.48	79
TOTAL		2,267

Q19 What is your age?

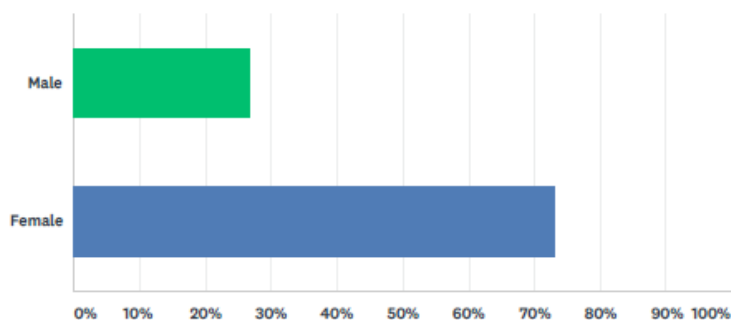
Answered: 2,231 Skipped: 51



Answer Choices	Responses	Count
Under 18	1.66%	37
18-24	5.29%	118
25-34	20.13%	449
35-44	18.15%	405
45-54	17.03%	380
55-64	17.71%	395
65 or older	20.04%	447
TOTAL		2,231

Q20 What is your gender?

Answered: 2,271 Skipped: 11



Answer Choices	Responses	Count
Male	26.68%	606
Female	73.32%	1,665
TOTAL		2,271

Focus Group Process

To complement information gleaned from secondary data sources and the community survey, key community stakeholders within each of the 12 counties comprising the North Central Kansas Food Council were sought to participate in a focus group. Focus groups were organized by North Central Regional Planning Commission in collaboration with North Central Kansas Food Council members, and personal invitations were made. In at least one case, the focus group was advertised in the local newspaper. Participants were provided with a packet of information for review at least one week prior to the focus group. The packet included a copy of the full community survey results for their county; a summary of secondary data collected; and a one-page, double-sided information sheet of secondary data and community survey highlights.

Focus groups were facilitated by two consultants and lasted two hours. Participants were provided with the one-page information sheet of county data highlights, an agenda that included two additional questions for which to provide a written response, and name tents on which to not only indicate their name and food sector represented but also provide written responses to questions that would be asked during the focus group. In many cases, food and refreshments were provided as well. The objectives of the focus groups were to:

- ground-truth the survey data;
- create linkage between the local food system and the survey;
- enrich and deepen the assessment process and corresponding data collected; and
- engage community members.

Focus groups took place from August to November 2018, the Saline County focus group occurring on August 29, 2018 at the Salina Public Library's McKenzie Center. A total of 23 community members were in attendance representing a diversity of food system sectors. Each focus group began with an overview of the food assessment process by North Central Planning Commission staff and discussion ground rules followed by a "warm-up" exercise where participants were asked what came to mind when thinking about their "local or regional food system." Saline County responses are illustrated in the graphic below. Due to the large size of the group, participants were then split into smaller groups for the remainder of the discussion.

The focus groups were conducted in three parts that focused on reactions to the community survey; the local food economy; and conclusions drawn. The following includes responses recorded by facilitators during the Saline County focus group as well as written responses from participants.

Focus Group Responses (Group 1)

Part 1: Survey Reactions

What surprised you?

- Dietary habits, so few people eat fruits and vegetables
- Very few people grow food
- Lots of food waste
- 20% of children hungry
- Low food budget for nearly half, \$300 per month or less, probably spent at grocery store vs. eating out.
- Sources of food; interest in vs. actual behavior
- Access channels, small corner stores preferred. What did that mean?
- Are Big Lots, Quick shops, Dollar Generals considered corner stores?

What resonated with you?

- Low amount, \$300, spent on food. One account of family of 5 eating on \$60/wk.
- High % want to buy local food

Ownership
Definitions_of_local
Knowing_producers
Waste_diversion
Market_power
SNAP
local
Aid_systems
Supply_chain
Waste_recovery
Transportation
Market_share
relationships
Community

*"Defining the local, regional food system."
Saline County focus group participant responses.*

- Issue of accessing food in general
- Convenience competes with preparing quality food
- Transportation issue, if you don't have a car how do you get to farmers market
- Related to convenience, is there any interest in a delivery service or CSA?
- Most people buy the same 9 things; CSA bundle results in waste if they get food they don't normally eat (and don't know what do with it). Food preference and habits are drivers of behavior.
- What do people of the confidence to use?
- Local food knowledge: Word of Mouth most common way to learn about

What is out of alignment or leaves you with additional questions? (ground-truthing)

- Not seniors, they pick more fruits/veggies
- Seniors more knowledgeable about veggies and how to prepare
- Even farmers buy foods at Sam's instead of growing their own
- Issue of affordability matches low income stats
- Can't believe 29% shop at farmers market; that does not match population; maybe that number only reflects who was surveyed
- Maybe people believe Prairie Land is a farmer market (it is a co-op)
- Results generally accurate for rural population

Part 2: Economic Data

Local Food Economy (survey question #16)

Is this data representative?

- Close match (0)
- Neutral (6)
- Not match at all (5)

Additional comments

- 88.6% said they'd purchase healthy food if they knew it was good for them; that is appalling!! (Group did not believe number; it is willingness vs. behavior; or it reflects the survey respondents not the general population)
- We like convenience and are creatures of habits – those tend to drive behavior
- Impact on local economy positive
- Buying local helps local economy
- Nutrition habits noted in survey (% eating fruits/vegetables) vs. interest in locally produced doesn't make sense
- Bigger influence on purchasing food is cost. Buy low cost food vs. healthy food
- Knowledge doesn't change behavior by itself

Supply Chain Awareness (11 participants)

Production

- Low awareness about how/where food is produced ☐ i.e., children don't know chickens have bones
- Because Salina is agricultural community where people are a generation or two off the farm, awareness of production is higher than other Supply Chain components
- But the awareness may be primarily around commodity production
- May not know what foods we eat are grown here.

Processing

- We like to ignore that. Limited awareness
- Regulation to legally sell local grown food is daunting
- Even those in the food business have limited awareness

Distribution

- Pretty good understanding of how food gets distributed (truck shows up at grocery store) but was disagreement on that

Marketing

- People know where to get food (grocery stores)
- Powerful for chains (everyone sees ads) but very little for local food economy
- Did not see Facebook post about farmers market locally

Consumer Choices: Competing Values

Preparing fresh vs. Convenience

- This is biggest section of supermarket
- What consumers want and what are willing to pay for—very little correlation.
- Consumers have very low cooking skills
- Not much time to cook, working a lot (time poor)
- Will choose foods that are filling vs. nutritious (need to feed hungry children first)

Quality vs. Affordability

- Expectations are set by grocery store
- Usually unwilling to pay higher prices
- If shown what percentage of the profit the local farmer gets, then consumer will pay more
- Salina food availability/quality is segregated; Ohio Street Dillon's has fewer discounted products.
- Limited buyers for organic at Sunset Plaza because of neighborhood
- Food industry has pushed to not differentiate
- Consumers won't drive across town to shop at farmer's market
- Farmers Markets located in North end because of USDA grant funding.
- Mindset is to get bargains.
- Salina has a high % of people low income (75% kids on free/reduced lunch)
- Who is target market audience really?

Production Expectations vs. Feasibility

- Set by grocery store variety and convenience
- Habits set; consumer education by advertising
- Seasonal cycle of food available not a part of consumer thinking
- Sysco sets expectations that everything is available all the time.

Part 3: Conclusions

Local Food System: What should be priorities?

- Education on resources (as in farmers markets)
- Greater profit for local food stores
- Pay level of jobs attracted to Salina: Low income families
- Disconnect between where family is financially vs. desire to buy high quality food
- Changing habits is difficult
- Make sure kids are fed so they can learn, expand school breakfast and lunch to all kids, not based on family income
- Address cross-purposes
- Marketing - get message out about farmers market

Local Food System: Community Assets

- Producers
- Local government support
- Land/Soil/Sun

- Interested population
- KSRE
- Training
- KDA Food safety
- Farm heritage connection to farm
- KDA Land of KS program

Local Food System: What would you change?

- Make food and health a value!!
- Unify producers
- Connect consumers of food system; educate on affordability
- Connect producers with markets to make it more profitable
- Make more affordable
- Placement of Markets centralized
- With community planning create repetition with more community gardens and greenscapes
- Educate on seasonal markets
- Help with financial literacy
- Facilitate producers getting in touch with consumers
- Long term planning to get new customers to healthy food
- Flow of people and food markets designed into community plan
- Have entertainers at farmers markets, make it an event
- Develop relationship between customer and producer
- Include more people; give them a stake; If more people worked in food sector, this might raise awareness of issues
- Involve children in food related activities, i.e. student gardens, community gardens involving children
- Internship programs with local farms and food stores
- Make donuts not the social norm

Overall Takeaways

- We are talking to people already concerned; need to connect with people who need change
- Really need to connect people to food resources such as unusual voices like seniors (Rosie's) population
- How to connect all the separate, little communities, for example older people can train younger generation to garden and cook

Parking Lot (miscellaneous)

- Need reliable workforce, livable wages to change production
- Is the community garden "successful"? (i.e., reach, impact)
- What USDA grant funds are available to grow the market?

Focus Group Responses (Group 2)

Part 1: Survey Reactions

What surprised you?

- Food expenditures (\$200/mo. per capita)
- Fruit consumption
- Food insecurity (21%+ children)
- Food waste – Tony's donates 5% of waste/dough to hog farmers
- 42% of food expenditures on snack foods

What resonated with you?

- Shopping behaviors – not much spent on groceries

- # who would purchase “if they knew it was local” (they probably already know)
- Poverty level not surprising
- Consumption behaviors
- Fruit and vegetable consumption – we know, but still startling
- Waste doesn’t seem to be a high priority – how to get buy-in?
- Do respondents really change behaviors based on concept of “local”?
 - Desires vs. values

What is out of alignment or leaves you with additional questions? (ground-truthing)

- Annual spending – does it include institutional purchasing, safety net programs, etc.?
- How are respondents perceiving survey questions?

Part 2: Economic Data

Local Food Economy (survey question #16)

Is this data representative?

- Close match (0)
- Neutral (0)
- Not match at all (11)

Supply Chain Awareness (11 participants)

Discussion Responses	
Production	
Land	<ul style="list-style-type: none"> • Costly • Lack of variety but soil/climate may be different • Access difficult (a few own) • Prohibitive zoning (residential) • Greenhouses • Economics (grow what pays) • Equipment targeted to larger corporations, maintenance is expensive
Labor	<ul style="list-style-type: none"> • Some specialty crops require manual harvesting • Not pro-immigrant (reference Wichita study) • Costly
Water	<ul style="list-style-type: none"> • Kanopolis River depleting • Irrigation 85% of use • Some cities can access well water, East Salina River but there are restrictions
Processing	
Barriers: <ul style="list-style-type: none"> • Need commercial licensing <ul style="list-style-type: none"> ○ Some travel to Herrington • No processor • Threat from big ag (Tyson) • No access for small scale • White wheat has more protein but there is no market 	Opportunities: <ul style="list-style-type: none"> • Smoky Hill Vineyards is an asset • Chickens population <ul style="list-style-type: none"> ○ Marketing is needed • Texans going to Krehbiel’s in McPherson • Saline County was once largest dairy county <ul style="list-style-type: none"> ○ Easy, small scale production option
Distribution	
<ul style="list-style-type: none"> • Not enough producers to support infrastructure • Farmers’ markets hours not accessible • Prairieland Co-op is an asset 	
Marketing	
<ul style="list-style-type: none"> • Complaints can put small producers out of business • Price/Product/Promotion/Placement related to affordability • Need to create food events, integrate entertainment • Prep education needed • Culinary programs? • Target children w/education, skills 	

Consumer Choices: Competing Values

Preparing fresh vs. Convenience

- Convenience is priority
- Slow Food Movement + young generation
- 2-person income/MHI

Quality vs. Affordability

- People don't know where their food comes from
- Traditional ag messaging is not resonating
- Affordability trumps quality

Production Expectations vs. Feasibility

- More availability will increase sales overall, but people still really aren't purchasing the traditional offerings
- Can do more specialty crop production, but producers many not be finding out what consumer demand is

Part 3: Conclusions

Local Food System: What should be priorities?

- Nothing has been prioritized
- Need community leadership engaged in food system issues
- Bottom line is priority
 - Consumers want best value
 - Competing values
- Need more education about food prep

Local Food System: Community Assets

- K-State Research and Extension
- Double Up Food Bucks
- Sustainable farmers' markets
- Local food advocate (LiveWell Saline County)
- Food waste recovery efforts
- Land/climate favorable
- Saline County is an ag (embodied knowledge)
- Kids willing to act, to find resources to learn → leverage technology
- CSA delivery

Local Food System: What would you change?

- Increase:
 - Culinary diversity
 - Sustainable family farms
 - Understanding of market power of those in supply chain
 - Accessibility – what barriers have we created that we can remove? (ease of access)

Overall Takeaways

- When evaluating priorities, we may be creating excuses
 - How do we make things happen?
- Disparity b/t consumer desires vs. reality
 - Need to dig deeper
 - Reframe questions
- Everyone wants, but doesn't want to work for it
- Grassroots organizing for political momentum → cultivate champions
- How to connect to the bottom line

Parking Lot (miscellaneous)

- Are these results consistent across all counties?
- Food waste
- Would people be interested in more actively growing/raising their own food?
- People need to know processing practices to change behavior, support local
- Why isn't local foods movement catching on in Salina?
- Can we trust quantitative data?
- Disconnect to consumer desires

All Written Responses

How often do you dine away from home? On average, Saline County focus group participants dined away from home 2.2 times per week.

Finish this sentence: **I would be most proud of my city/county/community food system if in five years...**

- We see food as an opportunity to strengthen the community and the soil.
- We have locally owned restaurants featuring farm to table, a permanent structure for a farmer's market, and an addition of 20 community gardens.
- There was a way to get more culturally diverse foods to try, buy and cook.
- Additional community gardens were established, and farmers markets grow so excess can be distributed directly to consumers.
- We had economical and healthy options for food. We made healthy options more viable for low income/poverty populations (time equals money, and both are limited).
- The farmer's markets were twice as attended and three times per week. Less regulations from the county regarding permits, etc.
- The local producers wouldn't have to have second jobs and were making livable wages. Plus, [if] there was a functioning food hub.
- We could double demand for local food.
- Every neighborhood has a farmer's market and numerous neighborhood gardens plus every school grow own food.
- Large year around farmer's market with dining and a permanent location/building.
- It was more affordable, accessible and better marketing to whole population.
- We can share knowledge or promote others to live healthy and afford the changes in lifestyle.
- The amount of children going hungry was dramatically reduced and there was robust community organized around fighting hunger.
- A thriving farmers market or markets are profitable in Salina. More people are growing gardens, participating in community gardens.
- We reduced hunger among our low-income population and that same population had access to healthier food options.
- We have a well-established and organized farmers market that has helped producers build relationships with the people who can and will shop there.
- I never heard someone say they didn't know that the farmers markets/Prairieland market existed, [and if] farmers markets and Prairieland and like businesses were financially sustainable.

Conclusions

The information presented in this report highlights many current strengths and gaps in the current food system for Saline County. The region has a strong agricultural presence, with access to farmland and adequate water supplies. Although agriculture is predominantly focused on the production of grains, hay and beef, there are a promising, albeit small, number of smaller-scale producers growing and producing foods for direct sale to community residents. The presence of Kansas State University, the state's land grant university, offers food producers and entrepreneurs in the region the opportunity to take advantage of a wealth of available scientific expertise and technical assistance. There is also access to retail grocery and farmers markets within Saline county.

Despite all those strengths, however, there are still gaps and opportunities to improve and enhance the local food system. Many farmers are nearing retirement age without younger ones stepping in fill the void, and high land prices and low farm profitability present significant challenges to the small numbers of younger people who would like to become farmers. Local production of fruit, poultry and eggs, pork, and dairy products fall significantly short of local consumption volumes. The vast majority of community residents do not eat the recommended amounts of vegetables and fruits. Approximately 7,320 Saline County residents are food-insecure (or struggle to get enough food), because they lack the money to buy it. National research suggests that as much of 40 percent of the food grown in the United States is wasted. If this pattern holds true in the Saline County area, more than 16 million pounds of food is wasted each year.

These are just a few examples of current assets and gaps; readers of this report will likely identify others. While this report does not address or include every possible measure related to the local food system, it has been structured to provide a systems-level description that touches upon each of the major sectors within the food system, using data that are either readily available or could be collected with reasonable effort within the community setting. Because of that breadth of scope, the depth of information on any one subject is necessarily limited to prevent the assessment process and report from becoming totally unmanageable. It is likely that there will be some areas where the information included will generate interest or raise additional questions that are not answered by the brief topical summaries included in the report – those questions may identify areas the North Central Regional Planning Commission or the North Central Kansas Food Council will wish to conduct further exploration in the future.

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Community Commons - <http://www.communitycommons.org/>

Feeding America, Map the Meal Gap - <http://map.feedingamerica.org/>

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