



GOVERNOR'S COUNCIL FOR WORKFORCE AND ECONOMIC DEVELOPMENT

EDUCATION

ECONOMIC DEVELOPMENT

EMPLOYMENT

STATE OF OKLAHOMA

2005 AGRICULTURE & FOOD PROCESSING CLUSTER ANALYSIS

DEFINITION OF INDUSTRY

The Agriculture and Food Processing industry cluster primarily consists of three activities: agricultural production, agricultural support, and value-added processing. Agricultural production includes goods such as wheat, soybeans, chickens, and hogs. Food processing includes those firm that process raw goods into unfinished goods for further processing or finished products. Agricultural support firms do not primarily engage in agricultural production or food processing, but they are indispensable to the industry as a whole. For example, the agricultural support services include those firms that make products like commercial ovens or other food processing machinery. Storage facilities such as grain elevators and refrigerated warehouses are included in the agricultural support section. This cluster analysis does not include data on farmers that do not have employees

SIGNIFICANCE AND HIGHLIGHTS

Unlike many other industry clusters, the firms that employ the most workers in the state are not primarily located in any of Oklahoma's four MSA's. The top employer in the state for the agriculture and food production cluster, Seaboard Farms Inc., is located in Guymon. Bar-S Foods Co. and Advance Food Co. Inc. each have one facility location inside an Oklahoma MSA. Bar-S employs 22.8% of its total employees in the Lawton MSA, while Advance Food employs only 2% of their workforce in the Oklahoma City MSA. There are a greater number of firms located in Tulsa and Oklahoma City, 28 and 69 respectively, than other cities across the state; but the two regions are not home to the state's largest employers. Total employment in Oklahoma County is in the range of 3,000-3,500 while Seaboard Farms Inc. is also in the 3,000-3,500 range. The five largest employers account for nearly forty three percent of the total industry employment.

There are 33 cases of non-disclosure in the county level analysis. These cases arise when fewer than three competing firms are in a county, or a firm employs over 80% of the county's total employment within that industry cluster. As a result, many of the counties that include locations of the top firms and/or have few competing firms in the industry are non-disclosure cases.

DATA SOURCES

Data used for this analysis was obtained from the Oklahoma Employment Security Commission and included filings of Oklahoma employers as of March 2004.

CLUSTER STATISTICS

Employer Units	610
Number of Employees	21,266
Percent of Total Oklahoma Employment	1.5%
Net Employment Change between 2002 and 2004	+514
Average Annual Wages	\$28,684
Location Quotient	0.95
Change in Location Quotient 2002-2004	-0.11

TOP FIVE INDUSTRIES IN THE AGRICULTURE & FOOD PROCESSING CLUSTER

The top five industries in the agriculture & food processing cluster employ 16,855 people, which represents 79.3% of the total employment (21,266) in the cluster.

NAICS	Industry	Employment	Percent of Cluster
311610	Animal Slaughtering and Processing	11,357	53.4%
311810	Bread and Bakery Product Manufacturing	2,201	10.3%
311110	Animal Food Manufacturing	1,363	6.4%
311820	Cookie, Cracker, and Pasta Manufacturing	1,136	5.3%
311410	Frozen Food Manufacturing	797	3.7%

(D) = Data suppressed for disclosure reasons.

TOP EMPLOYERS IN THE AGRICULTURE & FOOD PROCESSING CLUSTER

Company Name	Employee Range
Seaboard Farms, Inc.	3,000-4,000
Tyson Poultry, Inc.	1,500-2,000
Bar-S Foods Company	1,500-2,000
OK Foods, Inc.	1,000-1,500
Advance Food Company, Inc.	1,000-1,500

INDUSTRY LOCATION QUOTIENTS

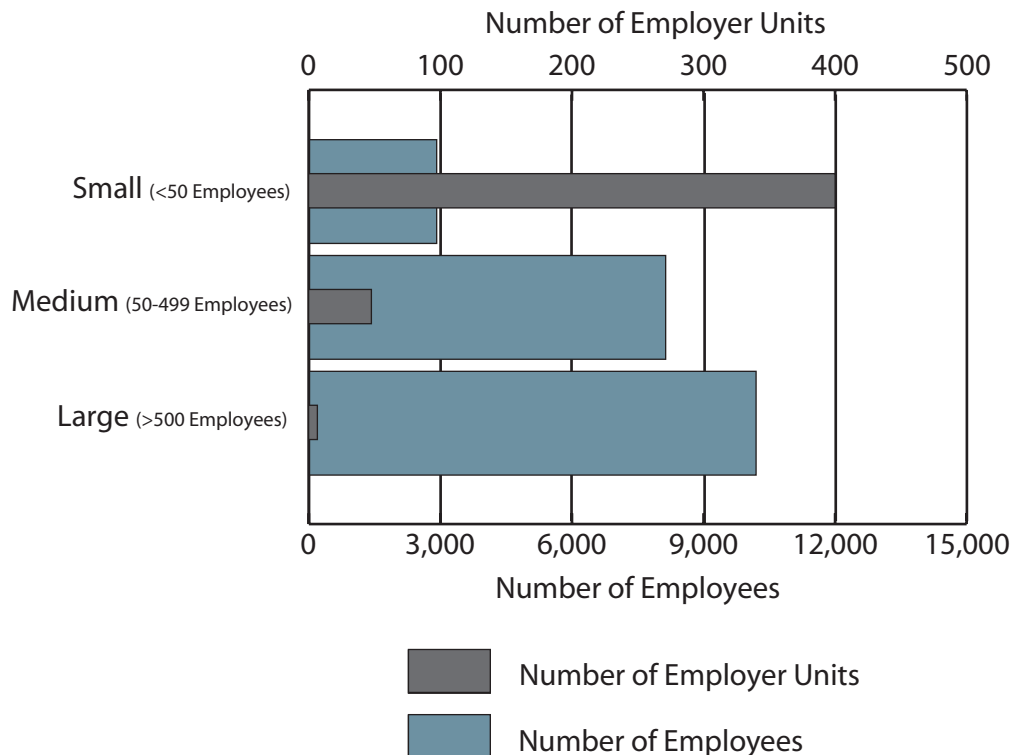
NAICS	Industry	Location Quotient	% Change
311110	Animal Food Manufacturing	2.71	52.0%
311920	Coffee and Tea Manufacturing	2.48	-24.2%
311610	Animal Slaughtering and Processing	2.22	23.6%
311820	Cookie, Cracker, and Pasta Manufacturing	1.95	2.7%
111140	Wheat Farming	1.91	-13.1%
311210	Flour Milling and Malt Manufacturing	1.64	28.6%
311220	Starch and Vegetable Fats and Oils Manufacturing	1.35	16.0%
311520	Ice Cream and Frozen Dessert Manufacturing	1.23	4.4%
311810	Bread and Bakery Product Manufacturing	1.04	15.2%
112110	Beef Cattle Ranching and Farming, including Feedlots	1.00	-66.0%
333290	Other Industrial Machinery Manufacturing	0.92	154.2%
311410	Frozen Food Manufacturing	0.88	20.1%
311990	All Other Food Manufacturing	0.65	21.4%
112120	Dairy Cattle and Milk Production	0.50	17.0%
111920	Cotton Farming	0.49	-9.0%
311830	Tortilla Manufacturing	0.47	225.7%

INDUSTRY LOCATION QUOTIENTS (CONTINUED)

NAICS	Industry	Location Quotient	% Change
311510	Dairy Product (except frozen) Manufacturing	0.40	69.8%
312110	Soft Drink and Ice Manufacturing	0.35	-71.2%
311420	Fruit and Vegetable Canning, Pickling, and Drying	0.27	78.0%
311940	Seasoning and Dressing Manufacturing	0.16	19.5%
111110	Soybean Farming	0.12	56.6%
493100	General Warehousing and Storage	0.09	-91.8%
311910	Snack Food Manufacturing	0.07	389.5%
311340	Non-chocolate Confectionary Manufacturing	0.06	-90.7%
311930	Flavoring Syrup and Concentrate Manufacturing	0.05	-0.2%
312130	Wineries	0.04	52.4%
111150	Corn Farming	0.02	0%
311320	Chocolate & Confectionary Mftg from Cacao Beans	0.02	76.4%
311310	Sugar Manufacturing	0.01	-52.1%

DISTRIBUTION OF EMPLOYER UNITS & JOBS BY EMPLOYER SIZE (MARCH 2004)

Range	Employer Units	Employees
Small (<50 employees)	400	2,927
Medium (50-500 employees)	48	8,141
Large (>500 employees)	7	10,200



AGRICULTURE & FOOD PROCESSING CLUSTER INDUSTRIES

111110 SOYBEAN FARMING

This industry comprises establishments primarily engaged in growing soybeans and/or producing soybean seeds.

111140 WHEAT FARMING

This industry comprises establishments primarily engaged in growing wheat and/or producing wheat seeds.

111150 CORN FARMING

This industry comprises establishments primarily engaged in growing corn (except sweet corn) and/or producing corn seeds.

111191 OILSEED & GRAIN COMBINATION FARMING

This U.S. industry comprises establishments engaged in growing a combination of oilseed(s) and grain(s) with no one oilseed (or family of oilseeds) or grain (or family of grains) accounting for one-half of the establishment's agricultural production (value of crops for market). These establishments may produce oilseed(s) and grain(s) seeds and/or grow oilseed(s) and grain(s).

111300 FRUIT & TREE NUT FARMING- NOT GROWN FROM SEEDS, AND HAVE PERENNIAL LIFE CYCLES

111400 GREENHOUSE, NURSERY, & FLORICULTURE PRODUCTION

Establishments that grow any kind of crop under cover and/or growing nursery stock and flowers.

111920 COTTON FARMING

111940 HAY FARMING

This industry comprises establishments primarily engaged in growing hay, alfalfa, clover, and/or mixed hay.

111992 PEANUT FARMING

111990 ALL OTHER FARMING

Primarily grow crops other than that listed above, and/or grow a combination of crops, of which no single crop accounts for over 50%

112111 CATTLE RANCHING & FARMING

This U.S. industry comprises establishments primarily engaged in raising cattle (including cattle for dairy herd replacements).

112112 CATTLE FEEDLOTS - ENGAGED IN FEEDING CATTLE FOR FATTENING

This U.S. industry comprises establishments primarily engaged in feeding cattle for fattening.

112120 DAIRY CATTLE AND MILK PRODUCTION

112200 HOG & PIG FARMING- RAISING HOGS AND PIGS

112300 POULTRY & EGG PRODUCTION

Raising, breeding and hatching for the primary purpose of meat or eggs.

115100 SUPPORT ACTIVITIES FOR CROP PRODUCTION

Provides support to those that grow crops. Examples include crop-dusting, farm management services, and cultivation services

115200 SUPPORT ACTIVITIES FOR ANIMAL PRODUCTION

Examples of provision include: breeding services, pedigree record services, as well as dipping and shearing.

311111 DOG AND CAT FOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing dog and cat food from ingredients, such as grains, oilseed mill products, and meat products.

311119 OTHER ANIMAL FOOD PROCESSING

This U.S. industry comprises establishments primarily engaged in manufacturing animal food (except dog and cat) from ingredients, such as grains, oilseed mill products, and meat products.

311211 FLOUR MILLING

This U.S. industry comprises establishments primarily engaged in (1) milling flour or meal from grains (except rice) or vegetables and/or (2) milling flour and preparing flour mixes or doughs.

311222 SOYBEAN PROCESSING

Crushing soybeans to make oils, meals, and concentrates.

311223 OTHER OILSEED PROCESSING

Crushing oilseeds other than soybeans than include cottonseed, linseed, peanuts, and sunflowers.

311225 FATS AND OILS REFINING AND BLENDING

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing shortening and margarine from purchased fats and oils; (2) refining and/or blending vegetable, oilseed, and tree nut oils from purchased oils; and (3) blending purchased animal fats with purchased vegetable fats.

311311 SUGARCANE MILLS**311320 CHOCOLATE AND CONFECTIONARY MANUFACTURING FROM CACAO BEANS**

Primary activities include shelling, roasting, and grinding cacao beans to be made into chocolate products and confectionaries.

311340 NON-CHOCOLATE CONFECTIONARY MANUFACTURING

Primarily engages in manufacturing non-chocolate confectionaries. Establishments included sell non-chocolate confectionary goods as an intermediate good. (Consumption is not intended on premises.)

311411 FROZEN FRUIT, JUICE, AND VEGETABLE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing frozen fruits; frozen vegetables; and frozen fruit juices, ades, drinks, cocktail mixes and concentrates.

311412 FROZEN SPECIALTY FOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing frozen specialty foods (except seafood), such as frozen dinners, entrees, and side dishes; frozen pizza; frozen whipped topping; and frozen waffles, pancakes, and french toast.

311421 FRUIT AND VEGETABLE CANNING

This U.S. industry comprises establishments primarily engaged in manufacturing canned, pickled, and brined fruits and vegetables. Examples of products made in these establishments are canned juices; canned jams and jellies; canned tomato-based sauces, such as catsup, salsa, chili, spaghetti, barbeque, and tomato paste; pickles, relishes, and sauerkraut.

311422 SPECIALTY CANNING

This U.S. industry comprises establishments primarily engaged in manufacturing canned specialty foods. Examples of products made in these establishments are canned baby food, canned baked beans, canned soups (except sea-food), canned spaghetti, and other canned nationality foods.

311511 FLUID MILK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in (1) manufacturing processed milk products, such as pasteurized milk or cream and sour cream and/or (2) manufacturing fluid milk dairy substitutes from soybeans and other nondairy substances.

311513 CHEESE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in (1) manufacturing cheese products (except cottage cheese) from raw milk and/or processed milk products and/or (2) manufacturing cheese substitutes from soybean and other nondairy substances.

311514 DRY, CONDENSED, AND EVAPORATED DAIRY PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing dry, condensed, and evaporated milk and dairy substitute products.

311520 ICE CREAM AND FROZEN DESSERT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing ice cream, frozen yogurts, frozen ices, sherbets, frozen tofu, and other frozen desserts (except bakery products).

311611 ANIMAL (EXCEPT POULTRY) SLAUGHTERING

This U.S. industry comprises establishments primarily engaged in slaughtering animals (except poultry and small game). Establishments that slaughter and prepare meats are included in this industry.

311612 MEAT PROCESSED FROM CARCASSES

This U.S. industry comprises establishments primarily engaged in processing or preserving meat and meat by-products (except poultry and small game) from purchased meats. This industry includes establishments primarily engaged in assembly cutting and packing of meats (i.e., boxed meats) from purchased meats.

311613 RENDERING AND MEAT BYPRODUCT PROCESSING

This U.S. industry comprises establishments primarily engaged in rendering animal fat, bones, and meat scraps.

311615 POULTRY PROCESSING

This U.S. industry comprises establishments primarily engaged in (1) slaughtering poultry and small game and/or (2) preparing processed poultry and small game meat and meat byproducts.

311811 RETAIL BAKERIES

This U.S. industry comprises establishments primarily engaged in retailing bread and other bakery products not for immediate consumption made on the premises from flour, not from prepared dough.

311812 COMMERCIAL BAKERIES

This U.S. industry comprises establishments primarily engaged in manufacturing fresh and frozen bread and bread-type rolls and other fresh bakery (except cookies and crackers) products.

311813 FROZEN CAKES, PIES, AND OTHER PASTRIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing frozen bakery products (except bread), such as cakes, pies, and doughnuts.

311821 COOKIE AND CRACKER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing cookies, crackers, and other products, such as ice cream cones.

311822 FLOUR MIXES AND DOUGH MANUFACTURING FROM PURCHASED FLOUR

This U.S. industry comprises establishments primarily engaged in manufacturing prepared flour mixes or dough mixes from flour ground elsewhere.

311830 TORTILLA MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing tortillas.

311911 ROASTED NUTS AND PEANUT BUTTER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) salting, roasting, drying, cooking, or canning nuts; (2) processing grains or seeds into snacks; and (3) manufacturing peanut butter.

311920 COFFEE AND TEA MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following: (1) roasting coffee; (2) manufacturing coffee and tea concentrates (including instant and freeze-dried); (3) blending tea; (4) manufacturing herbal tea; and (5) manufacturing coffee extracts, flavorings, and syrups.

311930 FLAVORING SYRUP AND CONCENTRATE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing flavoring syrup drink concentrates and related products for soda fountain use or for the manufacture of soft drinks.

311941 MAYONNAISE, DRESSING, AND OTHER PREPARED SAUCE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing mayonnaise, salad dressing, vinegar, mustard, horseradish, soy sauce, tarter sauce, Worcestershire sauce, and other prepared sauces (except tomato-based and gravy).

311942 SPICE AND EXTRACT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in (1) manufacturing spices, table salt, seasonings, flavoring extracts (except coffee and meat), and natural food colorings and/or (2) manufacturing dry mix food preparations, such as salad dressing mixes, gravy and sauce mixes, frosting mixes, and other dry mix preparations.

311991 PERISHABLE PREPARED FOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing perishable prepared foods, such as salads, sandwiches, prepared meals, fresh pizza, fresh pasta, and peeled or cut vegetables.

311999 ALL OTHER MISCELLANEOUS FOOD MANUFACTURING

Included in this industry are establishments primarily engaged in mixing purchased dried and/or dehydrated ingredients including those mixing purchased dried and/or dehydrated ingredients for soup mixes and bouillon.

312111 SOFT DRINKS

This U.S. industry comprises establishments primarily engaged in manufacturing soft drinks and artificially carbonated waters.

312112 BOTTLED WATER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in purifying and bottling water (including naturally carbonated).

312113 ICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ice.

312120 BREWERIES

This industry comprises establishments primarily engaged in brewing beer, ale, malt liquors, and nonalcoholic beer.

312130 WINERIES

This industry comprises establishments primarily engaged in one or more of the following: (1) growing grapes and manufacturing wine and brandies; (2) manufacturing wine and brandies from grapes and other fruits grown elsewhere; and (3) blending wines and brandies.

325300 PESTICIDE, FERTILIZER, & OTHER AGRICULTURAL CHEMICALS**333110 AGRICULTURAL IMPLEMENT MANUFACTURING**

Primary engagement is in manufacturing equipment for farm machinery as well other powered home & garden equipment.

333292 TEXTILE MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing textile machinery for making thread, yarn, and fiber.

333294 FOOD PRODUCT MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing food and beverage manufacturing-type machinery and equipment, such as dairy product plant machinery and equipment (e.g., homogenizers, pasteurizers, ice cream freezers), bakery machinery and equipment (e.g., dough mixers, bake ovens, pastry rolling machines), meat and poultry processing and preparation machinery, and other commercial food products machinery (e.g., slicers, choppers, and mixers).

333410 REFRIGERATED EQUIPMENT MANUFACTURING**493120 REFRIGERATED WAREHOUSING AND STORAGE**

This industry comprises establishments primarily engaged in operating refrigerated warehousing and storage facilities. Establishments primarily engaged in the storage of furs for the trade are included in this industry. The services provided by these establishments include blast freezing, tempering, and modified atmosphere storage services.

493130 FARM PRODUCT WAREHOUSING AND STORAGE

This industry comprises establishments primarily engaged in operating bulk farm product warehousing and storage facilities (except refrigerated). Grain elevators primarily engaged in storage are included in this industry.

Source: North American Industry Classification System, 2002, Executive Office of the President, Office of Management and Budget.