

2015 REPORT

TO:

THE ST. LOUIS AGRIBUSINESS CLUB

ON:

JULY 2015

BY:

AZIOTICS LLC

CONTACT:

Lawrence R Taylor

EMAIL: LARRYTAYLOR@AZIOTICS

PHONE: 314-863-3303



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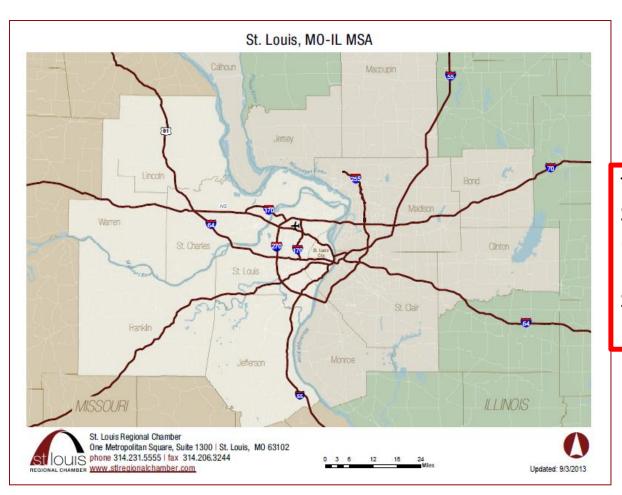
PHONE: 314-863-3303

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THE ECONOMIC CONTRIBUTION OF AGRIBUSINESS IN MSA 41180



The Metropolitan Statistical Area (MSA) 41180

St. Louis City plus 14 counties.



US PRODUCTION AGRICULTURE IN A 500-MILE RADIUS





US PRODUCTION AGRICULTURE IN A 500-MILE RADIUS

<u>State</u>	Counties Included	Counties Excluded	Total Counties	
KY	120		120	100%
MO	115		115	100%
IL	102		102	100%
IA	99		99	100%
TN	95		95	100%
IN	92		92	100%
AR	75		75	100%
KS	74	31	105	70%
MS	67	15	82	82%
OH	67	9	76	88%
WI	63	9	72	88%
MI	55	28	83	66%
OK	55	22	77	71%
NE	54	39	93	58%
GA	51	108	159	32%
AL	50	17	67	75%
MN	39	48	87	45%
LA	22	42	64	34%
WV	22	33	55	40%
NC	18	82	100	18%
TX	18	236	254	7%
VA	12	122	134	9%
SD	6	60	66	9%
SC	3	43	46	7%
Total	1374	944	2318	59%

Market Value of Agriculture Products Sold as per the US Agricultural Census in 2012; and the change since the 2007 Census.

- US\$ 171 Billion, up from US\$ 131 Billion
- The regions represents 43.3% of the US total, changed from 44%
- US\$ 40 Billion increase between 2007 and 2012 Agricultural Census



REGIONAL STATISTICS - US AGRICULTURAL CENSUS 2012

Farms Land in Farms – Acres Estimated value of land and buildings (\$1,000)		11,270 2,912,162 \$ 15,316,718
Principal farm operators Hired farm labor (workers) Payroll for hired farm labor (\$1,000) (estimated for Calhoun Co.) Contract labor (\$1,000)		11,270 8,946 \$ 71,697 \$ 3,828
Total market value of agricultural products sold (\$1,000) Crops Livestock, poultry and their products Government Payments (\$1,000) Income from farm-related sources, before taxes & expenses (\$1,000) Total farm production expenses (\$1,000) Net farm cash income from operations (\$1,000)	\$ 907,356 \$ 328,247	\$ 1,235,601 \$ 42,877 \$ 163,570 \$ 1,149,980 \$ 292,067
500 MILE RADIUS STATISCIS - US AGRICULTURAL CENSUS 2012 Total Value of Ag Products sold within 500 mile radius of St. Louis:		\$ 171 Billion
REGIONAL AGRIBUSINESS CONTRIBUTION SUMMARY Economic Contribution Total Jobs supported		\$ 18.6 Billion 178,946



THE ECONOMIC CONTRIBUTION OF AGRIBUSINESS, MEASURING THE VALUE-ADDED IN MSA 41180, **USING THE INPUT-OUT METHOD**

Direct

The industry being studied:

Effects

How much value is added locally.

Indirect The suppliers to the industry being studied:

How much value is added locally on the goods supplied to the industry.

Induced Effects

The industry being studied:

How much household income is generated by the industry being studied AND the suppliers to that industry, with goods supplied to the industry.



INDUSTRIES MEASURED ACROSS AGRIBUSINESS

AGRIBUSINESS	SECTORS AND INDUSTRIES	NAICS CODES
Production Agriculture: Agriculture, Forestry, Fishing, & Hunting	FARMS -Crop -Animal FORESTRY, TIMBER, FISHERIES & RELATED SUPPORT ACTIVITIES FOR AG	11
Agribusiness Industry:	FOOD MANUFACTURE: Animal feed, Milling, Confections, Fruit/Veg, Dairy, Meat, Bakery BEVERAGES & TOBACCO TEXTILES & APPAREL WOOD & PAPER CHEMICAL & FERTILIZER METAL MANUFACTURE	31.1 (.11 ~ .18) 31.2 31 (.3 ~ .6) 32 (.1 & .2) 32 (.5193, .53, .54, .62) 33 (.24 & .31)
Agribusiness Service:	WHOLESALING TRANSPORTATION WAREHOUSING & STORAGE TRADING RESEARCH & DEVELOPMENT	42 (.44, .45, .48) 48 (.1, .2, .3, .4) 49 (.312 & .313) 52 (.313) 54 (.17 & .19)

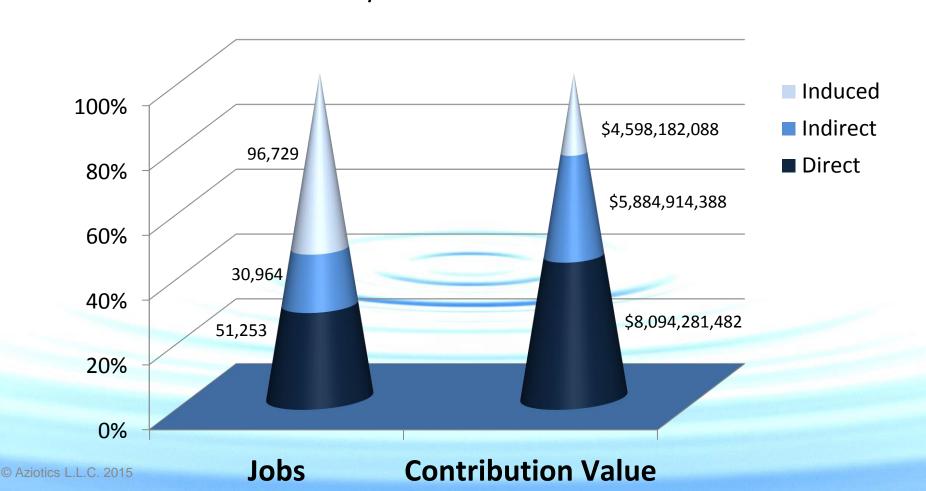


A KEY TO READING THE TABLES IN THIS REPORT

AGRIBUSINESS SECTORS OR INDUSTRIES				
Contribution	Direct	Indirect	Induced	
JOBS	JOBS IN THE INDUSTRY PRODUCING AGRIBUSINESS PRODUCTS AND SERVICES	JOBS AT SUPPLIERS PRODUCING FOR THE AG INDUSTRY	JOBS SUPPORTED BY THE DIRECT AND INDIRECT EMPLOYEES' SALARIES	
CONTRIBUTION VALUE, VALUE-ADDED THROUGH:	MANUFACTURING OR PROVIDING SERVICES	SUPPLING GOODS OR SERVICES	WAGES PAID	
TOTAL CONTRIBUION:	THE SUM TOTA	AL OF THE ABOVE 3 V	ALUES	
NAICS CODE INDUSTRY NAMES NAICS: "NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM"; THE STANDARD USED BY THE FEDERAL STATISTICAL AGENCIES TO CLASSIFY ECONOMIC ACTIVITY BY: INDUSTRY, SECTOR, SUB-SECTOR AND GROUP. INDUSTRY: EACH PAGE WILL IDENTIFY THE CLUSTER OF AGRIBUSINESS ECONOMIC ACTIVITIES AS GROUPED BY THE NAICS CODES CLASSIFICATION.		TOP SUPPLIERS RANK-ORDER LISTING OF THE SEGMENTS SUPPLYING THE LARGEST AMOUT OF VALUE TO THE AGRIBUSINESS INDUSTRY	TOP EMPLOYERS EXAMPLES OF EMPLOYERS FROM THE VARIOUS SUB-SECTORS IN THESE NAICS CLASSIFICATIONS	



Total Agribusiness Economic Contribution for St. Louis MSA \$18.6 Billion Total



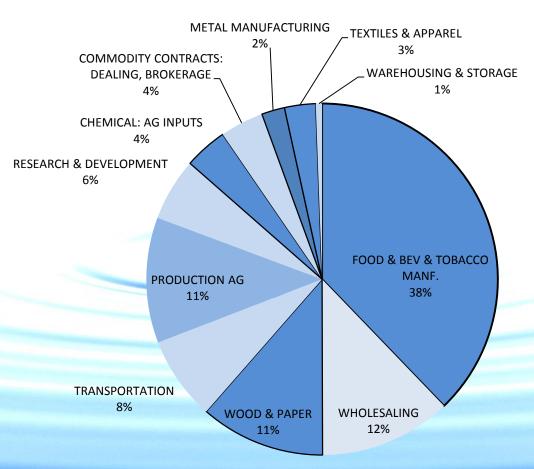


THE SUMMARY OF AGRIBUSINESS ECONOMIC CONTRIBUTION TO THE MSA

AGRIBUSINESS IN THE METROPOLITAN STATISTICAL AREA: 41180 St. LOUIS				
Contribution	Direct	Indirect	Induced	
Jobs	51,253	30,964	96,729	
Contribution Value	\$8,094,281,482	\$5,884,914,388	\$4,598,182,088	
Total Contribution	\$18,577,377,958			
	SECTORS, RANKED BY	TOP INDIRECT	TOP DIRECT-	
NAICS	TOTAL CONTRIBUTION VALUE:	SUPPLY SECTORS	EMPLOYER SECTORS	
31 (.1 ~ .2)	FOOD & BEVERAGE	PRODUCTION AG	FOOD & BEV	
42 (.44, .45, .48)	WHOLESALING	WHOLESALING	WHOLESALING	
11	PRODUCTION AGRICULTURE	FOOD & BEV	WOOD & PAPER	
32 (.1 & .2)	WOOD AND PAPER	FORESTRY	RESEARCH & DEV	
48 (.1, .2, .3, .4)	TRANSPORTATION	CHEMICALS	TRANSPORTATION	
54 (.17 & .19)	RESEARCH AND DEVELOPMENT	PROF& SCIENTIFIC	COMMODITY	
52 (.313)	COMMODITY CONTRACTS	PAPER PRODUCTS	TEXTILES & APPAREL	
32 (.5193, .53, .54, .62)	CHEMICAL MANUFACTURING	PETROL. & COAL	PRODUCTION AG	
31 (.3 ~ .6)	TEXTILES AND APPAREL	TRUCK TRANSP.	METAL MANUFACT	
33 (.24 & .31)	METAL MANUFACTURING	UTILITIES	CHEMICALS	
49 (.312 & .313)	WAREHOUSING AND STORAGE		WAREHOUSING	



Agribusiness Economic Contribution for St. Louis MSA by Sector \$18.6 Billion Total





AGRICULTURAL PRODUCTION AND SUPPORT BUSINESSES CONTRIBUTE 12% OF AGRIBUSINESS VALUE; #3 IN THE MSA

PRODUCTION AGRICULTURE				
Contribution	Direct	Indirect	Induced	
Jobs	2,560	5,350	7,724	
Contribution Value	\$ 621,698,361	\$ 1,157,244,299	\$ 367,154,145	
Total Contribution	\$:	2,146,096,805		
NAICS 11 11.1 11.2 11.3 & 11.4	FARMS Crop Production Animal Production, Aquaculture FORESTRY, TIMBER, FISHERIES & RELATED SUPPORT ACTIVITIES FOR AG	TOP SUPPLIERS PRODUCTION AG SUPPORT FOR AG PRDN WHOLESALING FOOD & BEV PETROLEUM CHEMICAL CREDIT INSURANCE UTILITIES TRUCK TRANSPORT	EXAMPLE EMPLOYERS AGRITECH BEAUCHAMP ECKERT FARMERS NATN NATL NURSERY RAIFORT REINFSHNEIDER	



FOOD, BEVERAGE & TOBACCO BUSINESSES CONTRIBUTE 38% OF AGRIBUSINESS VALUE; #1 IN THE MSA

FOOD MANUFACTURING				
Contribution	Direct	Indirect	Induced	
Jobs	14,026	12,137	34,656	
Contribution Value	\$2,859,786,116	\$2,515,017,567	\$1,647,456,460	
Total Contribution	\$	7,022,260,143		
NAICS 31.1 31.11 31.12 31.13 31.14 31.15 31.16 31.18 31.2	Food Manufacturing Animal Food Milling Confections Fruit & Vegetable Dairy Slaughter Bakery Beverages and Tobacco Beverages	TOP SUPPLIERS PRODUCTION AG FOOD & BEVERAGE WHOLESALING MANAGEMENT PAPER PRODUCTS TRUCK TRANSPORT PLASTICS & RUBBER PROF & SCIENTIFIC FAB METALS UTILITIES	EXAMPLE EMPLOYERS BUNGE CARGILL CONAGRA DUPONT INBEV MASCHOFF NOVUS PILLSBURY PRAIRIE FARMS	



FOUR SUB-SECTORS IN TEXTILES AND APPAREL PROVIDE 5% OF DIRECT AGRIBUSINESS JOBS IN THE MSA

TEXTILES AND APPAREL MANUFACTURING				
Contribution	Direct	Indirect	Induced	
Jobs	2,711	2,113	3,937	
Contribution Value	\$117,741,309	\$226,743,886	\$187,172,330	
Total Contribution	\$531,657,525			
NAICS 31.3 & 31.4 31.5 & 31.6	INDUSTRIES Textiles and Textile Product Mills Apparel Manufacturing and Leather Products Manufacturing	TOP SUPPLIERS TEXTILE MILLS ADMIN & SUPPORT WHOLESALING MANAGEMENT PROF. & SCIENTIFIC APPAREL & LEATHER INSURANCE RENTAL/LEASING FOOD & BEVERAGE CREDIT	EXAMPLE EMPLOYERS BROWN SHOE KELLWOOD RALCORP	



WOOD-BASED INDUSTRY PROVIDES 13% OF DIRECT AGRIBUSINESS JOBS; #3 IN THE MSA

WOOD, PAPER and FURNITURE MANUFACTURING				
Contribution	Direct	Indirect	Induced	
Jobs	6,725	5,523	12,311	
Contribution Value	\$762,765,258	\$786,729,206	\$585,227,106	
Total Contribution	\$2	2,134,721,570		
NAICS 32.1 32.2	INDUSTRIES Wood Products Manufacturing Paper Products Manufacturing Furniture and Related Products	TOP SUPPLLIERS FORESTRY WOOD PRODUCTS WHOLESALERS MANAGEMENT PROF & SCIENTIFIC FAB METAL CHEMICAL PRODUCTS UTILITIES TRUCK TRANSPORT ADMIN & SERVICES	EXAMPLE EMPLOYERS EAST PERRY HISTORIC TIMBER MILLMAN MO PACIFIC MUELLER BROS	



FOUR INDUSTRY GROUPS WITHIN CHEMICAL MANUFACTURE CONTRIBUTE 4% OF AGRIBUSINESS VALUE TO THE MSA

CHEMICAL MANUFACTURING				
Contribution	Direct	Indirect	Induced	
Jobs	662	792	2,393	
Contribution Value	\$419,477,122	\$203,445,480	\$113,733,943	
Total Contribution	Ş	5736,656,545		
NAICS 32.53 32.5193 32.54	Pesticide, Fertilizer and other Ag Products Manufacture Ethanol Manufacture Pharmaceutical and Medicine Manufacture Rubber Products Manufacture	TOP SUPPLIERS CHEMICAL MANAGEMENT WHOLESALING PETROLEUM UTILITIES OIL & GAS PRODUCTION AG PLASTIC & RUBBER PROF & SCIENTIFIC RENTAL & LEASING	EXAMPLE EMPLOYERS ABENGOA AGROTAIN CENTER OIL ELANCO LANGE-STEG. MALLINCKRODT MONSANTO POET PURCELL TIRE SIGMA-ALDRICH SYNGENTA	



TWO INDUSTRY GROUPS WITHIN METAL MANUFACTURE CONTRIBUTE 2% OF AGRIBUSINESS VALUE TO THE MSA

METAL MANUFACTURING			
Contribution	Direct	Indirect	Induced
Jobs	873	484	1,854
Contribution Value	\$229,675,210	\$76,294,733	\$88,139,372
Total Contribution	\$394,109,315		
NAICS 33.24	Boiler, Tank & Shipping Container Manufacturing, includes cans and containers Agriculture, Construction, and Mining Machinery Manufacture	TOP SUPPLIERS PRIMARY METALS FAB METALS WHOLESALING PROF & SCIENTIFIC MANAGEMENT ADMIN & SERVICES CHEMICAL PRODUCTS COMPUTER PRODUCTS UTILITIES RENTAL & LEASING	EXAMPLE EMPLOYERS EAGLE MARINE FABIC WM. NOBBE



FIVE INDUSTRY GROUPS WITHIN WHOLESALING CONTRIBUTE 12% OF AGRIBUSINESS VALUE; #2 IN THE MSA

MERCHANT WHOLESALING , NON-DURABLE GOODS				
Contribution	Direct	Indirect	Induced	
Jobs	9,263	1,363	11,927	
Contribution Value	\$1,459,845,596	\$231,585,035	\$566,989,389	
Total Contribution	\$2	2,258,420,021		
NAICS 42.44 42.45 42.48 42.491 42.493	INDUSTRIES Wholesale Grocery and Related Product Merchant Wholesalers Wholesale Trade of Farm Product Raw Materials Merchant Wholesalers Beer, Wine, and Distilled Alcoholic Beverage Merchant Wholesalers Farm Supplies Merchant Wholesalers Nursery & Florist Merchant Wholesalers	TOP SUPPLILERS PROF & SCIENTIFIC MANAGEMENT WHOLESALING ADMIN & SERVICES OTHER TRANSPORT OTHER REAL ESTATE CREDIT OTHER SERVICES WAREHOUSE & STORE INSURANCE	EXAMPLE EMPLOYERS BAISCH & SKINN GREY EAGLE MAJOR BRANDS NORTH BAY SUMMIT YOURS MARKET	



FOUR SUB-SECTORS OF TRANSPORTATION CONTRIBUTE 8% OF AGRIBUSINESS VALUE TO THE MSA

TRANSPORTATION					
Contribution	Direct	Indirect	Induced		
Jobs	4,548	1,520	6,699		
Contribution Value	\$738,498,485	\$372,311,092	\$318,430,037		
Total Contribution	\$1,429,239,614				
NAICS 48.1 48.2 48.3 48.4	INDUSTRIES Air Transportation Rail Transportation Water Transportation Truck Transportation	TOP SUPPLIERS PETROLEUM PRODUCTS OTHER TRANSPORT WHOLESALING RENTAL & LEASING INSURANCE ADMIN & SERVICE WAREHOUSE & STORE MANAGEMENT MOTOR VEHICLES RAIL TRANSPORTATION	EXAMPLE EMPLOYERS AEP RIVER AGRI MARINE AM. RAILCAR AM. COMMERC. CRH TRANSP. INGRAM MARQUETTE R & L TERMINAL RR		



TWO INDUSTRIES WITHIN WAREHOUSING AND STORAGE CONTRIBUTE 1% OF AGRIBUSINESS, AND SUPPORT THE #1 SECTOR IN THE MSA

WAREHOUSING AND STORAGE					
Contribution	Direct	Indirect	Induced		
Jobs	606	83	634		
Contribution Value	\$61,942,921	\$15,574,774	\$30,161,628		
Total Contribution	\$107,679,322				
NAICS 49.312 49.313	INDUSTRIES Refrigerated Warehousing Farm Product Warehousing and Storage	TOP SUPPLIERS OTHER REAL ESTATE WAREHOUSE & STORE ADMINIS & SERVICE PROF & SCIENTIFIC UTILITIES OTHER SERVICES OTHER TRANSPORT WHOLESALING RENTAL & LEASING MACHINERY BROADCASTING	EXAMPLE EMPLOYERS AMERICOLD BUNGE CARGILL KOCH INDUST. LANGE-STEGG. LANTER LLITCHFIELD NORBERT TRI-COUNTY FS WITTE BROS.		



TWO INDUSTRIES WITHIN COMMODITY CONTRACTS CONTRIBUTE 8% OF DIRECT AGRIBUSINESS EMPLOYMENT IN THE MSA

COMMODITY CONTRACTS: DEALING, BROKERAGE				
Contribution	Direct	Indirect	Induced	
Jobs	4,149	693	5,527	
Contribution Value	\$343,524,490	\$138,225,589	\$262,744,138	
Total Contribution	\$744,494,217			
NAICS 52.313 52.314	INDUSTRIES Commodity Contracts Dealing Commodity Brokerage	TOP SUPPLIERS SECURITIES & COMMOD PROF & SCIENTIFIC CREDIT MANAGEMENT OTHER REAL ESTATE ADMIN & SERVICE DATA PROCESSING INSURANCE LEGAL COMPUTER SYSTEMS BROADCASTING	EXAMPLE EMPLOYERS BUNGE	



PROFESSIONAL, SCIENTIFIC AND TECHNICAL EMPLOYMENT CONTRIBUTE 10% OF DIRECT AGRIBUSINESS EMPLOYMENT IN THE MSA

RESEARCH & DEVELOPMENT				
Contribution	Direct	Indirect	Induced	
Jobs	5,131	906	9,066	
Contribution Value	\$479,326,614	\$161,742,728	\$430,973,539	
Total Contribution	\$1,072,042,881			
	Scientific Research and Development Services Other Professional, Scientific, and Technical Services (Includes veterinary)	TOP SUPPLIERS SECURITIES&COMM PROFES & SCIENTIFIC CREDIT MANAGEMENT OTHER REAL ESTATE ADMIN & SERVICES DATA PROCESSING INSURANCE LEGAL COMPUTER SYSTEMS BROADCASTING	EXAMPLE EMPLOYERS ARCH GRANTS BIOGENERATOR BIO-STL CIC CORTEX DANFORTH/BRDG MOBOT NCERC UMSL ITE YIELD LAB	



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Missouri AgriBusiness

Association (MO-AG)

Missouri Crop Improvement Association Missouri Dairy Association Missouri Dairy Association Missouri Department of **Economic Development** Missouri Department of **Transportation** Missouri Economic Research & Information Center Missouri Pork Association Missouri State Department of **Economic Development** Missouri State Departments of Agriculture MO-BIO National Associations of Corn Growers

National Institute for Food and Agriculture Port Authority of St. Louis St. Louis Agribusiness Club board members St. Louis Business Journal St. Louis Regional Chamber The Agribusiness Council The Federal Reserve & Officers of The St. Louis Fed. The US Department of Commerce, Bureau of Economic Analysis (BEA) **United Soybean Board** University of Illinois **US Army Corps of Engineers** US CENSUS. 2010 Statistics

US Department of Labor.
Bureau of Labor Statistics
(BLS)
US Department of
Transportation, Maritime
Administration
USDA, The National Agricultural
Statistics Service, Heartland
Regional Office
USDA, The Economic Research
Service
Waterway Journal
World Trade Center of St. Louis

And the many Individual representatives of agribusiness companies in the region who shared their expertise



METHODOLOGY

The following three pages are a continuation of the description of the methodology summarized earlier in the report. These pages address the individual approaches for:

- Direct Effects
- Indirect Effects
- Induced Effects



Direct The industry being studied:

Effects How much value is added locally.

CONTRIBUTION

DEPARTMENT OF COMMERCE; BUREAU OF ECONOMIC ANALYSIS (BEA)

- IDENTIFY AGRIBUSINESS SECTORS
- CALCULATE GDP PER INDUSTRY OR SUB-INDUSTRY
 - NATIONAL GDP DATA
 - BI-STATE GDP DATA
 - MSA GDP DATA
- CALCULATE % AGRICULTURE GDP
- =DIRECT CONTRIBUTION PER SECTOR

JOBS

DEPARTMENT OF LABOR; BUREAU OF LABOR STATISTICS

- HARMONIZE DATE AROUND SELECTED SECTORS
- CALCULATE EMPLOYMENT PER INDUSTRY OR SUB-INDUSTRY
 - NATIONAL DATA
 - BI-STATE DATA
 - MSA DATA
- CALCULATE % AGRICULTURE EMPLOYMENT
- =DIRECT JOBS GENERATED PER SECTOR



Indirect The suppliers to the industry being studied:

Effects How much value is added locally on the goods supplied to the industry.

CONTRIBUTION: BUREAU OF ECONOMIC ANALYSIS (BEA)

- SELECT INPUT-OUTPUT TABLES; SELECT AGRIBUSINESS SECTORS
- CALCULATE GDP PER SUPPLIER INDUSTRY
- CALCULATE GDP PER SUPPLIER PER SECTOR
- CONVERT TO MSA GDP
- CALCULATE % AGRICULTURE GDP
- =INDIRECT CONTRIBUTION OF SUPPLIERS TO AGRIBUSINESS

JOBS: BUREAU OF LABOR STATISTICS (BLS)

- CALCULATE JOBS PER GDP PER SUPPLIER INDUSTRY
- CALCULATE JOBS PER SUPPLIER PER SECTOR
- CONVERT TO MSA JOBS
- CALCULATE % AGRICULTURE EMPLOYMENT
- =INDIRECT JOBS GENERATED PER AGRIBUSINESS SECTOR



Induced Effects The industry being studied:

How much household income is generated by the industry being studied AND the suppliers to that industry, with goods supplied to the industry.

CONTRIBUTION - DIRECTS:

- IDENTIFY WAGES PER AGRIBUSINESS SECTOR
- CONVERT TO MSA WAGES AND TO % AGRICULTURE

CONTRIBUTION-INDIRECTS:

- IDENTIFY WAGES PER SELECTED SECTORS
- CALCULATE WAGES PER GDP PER = FACTOR
- WAGE FACTOR APPLIED TO GDP DATA IS WAGES PER SUPPLIER PER INDUSTRY
- CONVERT TO MSA GDP AND TO % AGRICULTURE GDP
- COMBINE CONTRIBUTIONS : DIRECTS PLUS INDIRECTS

JOBS:

- CALCULATE TOTAL MSA WAGES PAID
- CALCULATE MSA JOBS
- CALCUATE FACTOR OF WAGES PER JOB
- CALCULATE WAGES PAID BY COMBINED CONTRIBUTIONS BY AG
- CONVERT TO JOBS GENERATED BY AG WAGES SPENDING