

Impact Scenario

Soybean and Other Oilseed Processing in Davison County, SD

Lightcast Q1 2023 Data Set

April 2023

South Dakota Governor's Office of Economic Development



South Dakota

Parameters

Input-Output Year: 2021

Regions:

Code	Description
46035	Davison County, SD

Industry Scenario:















Code	Description	Change Type	Change Value
311224	Soybean and Other Oilseed Processing	Earnings	\$3,750,000.00

Model Type: Type Lightcast

























Changes to Soybean and Other Oilseed Processing using Type Lightcast Model

<p>\$25,772,053</p> <p>Change in Earnings</p> <p>6.87 Multiplier</p>	<p>486</p> <p>Change in Jobs</p> <p>11.12 Multiplier</p>	<p>\$3,562,222</p> <p>Change in Taxes on Production and Imports (TPI)</p>
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Scenario Results - Industry

NAICS	Industry	Change in Jobs
11	Agriculture, Forestry, Fishing and Hunting	190 
21	Mining, Quarrying, and Oil and Gas Extraction	0
22	Utilities	1
23	Construction	30 
31	Manufacturing	45 
42	Wholesale Trade	25 
44	Retail Trade	14 
48	Transportation and Warehousing	47 
51	Information	2
52	Finance and Insurance	10 
53	Real Estate and Rental and Leasing	22 
54	Professional, Scientific, and Technical Services	9 
55	Management of Companies and Enterprises	1
56	Administrative and Support and Waste Management and Remediation Services	12 
61	Educational Services	5
62	Health Care and Social Assistance	19 
71	Arts, Entertainment, and Recreation	3
72	Accommodation and Food Services	16 
81	Other Services (except Public Administration)	11 
90	Government	22 

Scenario Results - Occupation

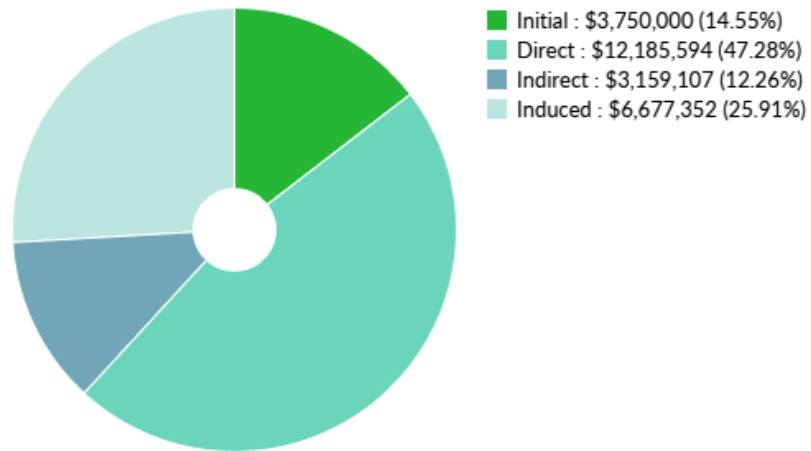
SOC	Occupation	Change in Jobs
11-0000	Management Occupations	133 
13-0000	Business and Financial Operations Occupations	15 
15-0000	Computer and Mathematical Occupations	2 
17-0000	Architecture and Engineering Occupations	4 
19-0000	Life, Physical, and Social Science Occupations	5 
21-0000	Community and Social Service Occupations	3 
23-0000	Legal Occupations	1 
25-0000	Educational Instruction and Library Occupations	11 
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	5 
29-0000	Healthcare Practitioners and Technical Occupations	8 
31-0000	Healthcare Support Occupations	5 
33-0000	Protective Service Occupations	3 
35-0000	Food Preparation and Serving Related Occupations	16 
37-0000	Building and Grounds Cleaning and Maintenance Occupations	14 
39-0000	Personal Care and Service Occupations	14 
41-0000	Sales and Related Occupations	35 
43-0000	Office and Administrative Support Occupations	35 
45-0000	Farming, Fishing, and Forestry Occupations	43 
47-0000	Construction and Extraction Occupations	24 
49-0000	Installation, Maintenance, and Repair Occupations	16 
51-0000	Production Occupations	25 
53-0000	Transportation and Material Moving Occupations	68 
55-0000	Military-only occupations	0 
99-0000	Unclassified Occupation	1 

Scenario Results - Demographics

Demographics	Change in Jobs
Female 14-18	3 
Male 14-18	7 
Female 19-21	6 
Male 19-21	9 
Female 22-24	4 
Male 22-24	14 
Female 25-34	23 
Male 25-34	65 
Female 35-44	29 
Male 35-44	59 
Female 45-54	21 
Male 45-54	67 
Female 55-64	30 
Male 55-64	78 
Female 65-99	18 
Male 65-99	53 

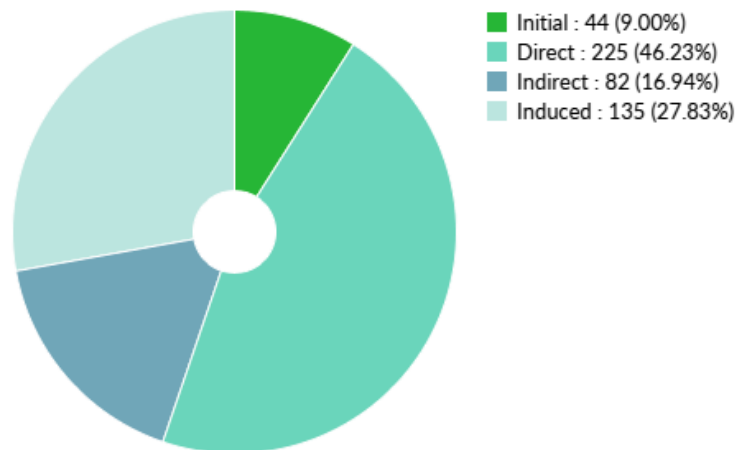
Effect on earnings from adding \$3,750,000 in earnings to Soybean and Other Oilseed Processing

<p>\$3.8M</p> <p>Initial 1.00 Multiplier</p>	<p>\$12.2M</p> <p>Direct 3.25 Multiplier</p>	<p>\$3.2M</p> <p>Indirect 0.84 Multiplier</p>	<p>\$6.7M</p> <p>Induced 1.78 Multiplier</p>
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Effect on jobs from adding \$3,750,000 in earnings to Soybean and Other Oilseed Processing

<p>44</p> <p>Initial</p> <p>1.00 Multiplier</p>	<p>225</p> <p>Direct</p> <p>5.14 Multiplier</p>	<p>82</p> <p>Indirect</p> <p>1.88 Multiplier</p>	<p>135</p> <p>Induced</p> <p>3.09 Multiplier</p>
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Effect on taxes on production and imports from adding \$3,750,000 in earnings to Soybean and Other Oilseed Processing

<p>\$1.6M</p> <p>Local</p>	<p>\$1.3M</p> <p>State</p>	<p>\$666,716</p> <p>Federal</p>
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Appendix A - Data Sources and Calculations

Input-Output Data

The input-output model in this report is Emsi's gravitational flows multi-regional social account matrix model (MR-SAM). It is based on data from the Census Bureau's Current Population Survey and American Community Survey; as well as the Bureau of Economic Analysis' National Income and Product Accounts, Input-Output Make and Use Tables, and Gross State Product data. In addition, several Emsi in-house data sets are used, as well as data from Oak Ridge National Labs on the cost of transportation between counties.

State Data Sources

This report uses state data from the following agencies: South Dakota Department of Labor and Regulation