

CASE NO. 2020-00043
GLOVER CREEK SOLAR, LLC
RESPONSES TO HARVEY ECONOMIES' FIRST REQUEST FOR INFORMATION

- XII Economic impact analysis—This topic is not specifically called for in these applications, but the Board will have an interest in project benefits.**
- A. On page 146, the report states that “The Project will make a multi-million dollar capital investment in rural central Kentucky that will have direct, indirect, and induced impacts on a broad range of economic activities in the region”. How much money will be spent on purchases of materials, supplies, equipment or other items in Metcalfe County in support of facility construction? In the larger Bowling Green region? Total in Kentucky?
 - B. How much sales or use tax revenue would be generated for Metcalf County due to construction activity? For the Bowling Green region? For the State?
 - C. Is the estimate of the 300 direct construction jobs created specific to the Glover Creek Project? The footnote on page 146 indicates that estimates are based on “Silicon Ranch’s own projects.”
 - D. What approximate percentage of those construction workers will come from Metcalfe County? The Bowling Green area?
 - E. Does the Applicant have any estimates of wages specific to Project construction and operational workers as opposed to BLS data?
 - F. What are region and industry specific income multipliers available from the Bureau of Economic Activity or through IMPLAN that should be applied here?
 - G. Is it correct that the chosen multipliers appear to be applied twice and are therefore double counting the economic effects of the income and spending of construction workers.
 - H. How much money will be spent on the purchase of materials / supplies in the local area each year during the operational phase? Metcalf County? Larger Bowling Green area?

Response:

- A. In addition to local wages, the main regional purchases associated with the Project will be for construction sub-contracts including the fencing contractor, grading contractor, electrical contractors, and equipment rental. There will also be positive local impacts due to increased volume at local restaurants and gas stations, and demand for rental housing during the construction period. However, the majority of the materials and equipment that make up the solar facility such as the panels, racking system, inverters and transformers will all likely be imported from outside of Kentucky.
- B. Please see response to XII. A. above.
- C. Please see corrected page attached as Exhibit G.

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- D. Unfortunately, it is not possible to predict with accuracy at this time where the construction labor for the project will come from (i.e. what percentage of labor will come from Metcalfe County or the Bowling Green area). Availability of local training programs, assessment of local labor availability, appropriate local wage rates, and level of skill of local workers is an important step in the construction process, which has not commenced yet.
- E. Please see response to XII. D. above.
- F. A report of RIMS II Multipliers from the Bureau of Economic Analysis, US Department of Commerce is attached as Exhibit M. The report shows region and industry specific income multipliers for Metcalfe County, Kentucky.
- G. Yes, the chosen multipliers were incorrectly applied twice. A corrected page is attached as Exhibit G.
- H. During the operational phase, the main local purchases will be fuel and food for operations staff and local landscaping contractors. These purchases are not expected to be significant on an annual basis.

WITNESS: Carson Harkrader

Supplemental Exhibits

Included:

N

Exhibit N

**Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry
Glover Creek Project, Metcalfe County (Type I)**

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
1111C0 Oilseed and grain farming	1.1571	0.1774	8.2677	0.4032	1.1883	1.1424
111200 Vegetable and melon farming	1.0921	0.2317	12.3273	0.5618	1.0852	1.0578
111300 Fruit and tree nut farming	1.0501	0.2536	15.6685	0.6966	1.0382	1.0200
111400 Greenhouse, nursery, and floriculture production	1.2285	0.3798	21.2168	0.6385	1.2123	1.1871
111900 Other crop farming	1.1087	0.2326	11.9342	0.5407	1.0969	1.0655
112120 Dairy cattle and milk production	1.2240	0.1736	8.5759	0.2912	1.2960	1.1928
1121A0 Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	1.6152	0.2257	10.6267	0.5184	1.7101	1.6179
112300 Poultry and egg production	1.2709	0.1674	8.4962	0.1852	1.4039	1.2521
112A00 Animal production, except cattle and poultry and eggs	1.2065	0.2159	9.9762	0.7616	1.2191	1.1904
113000 Forestry and logging	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
114000 Fishing, hunting and trapping	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
115000 Support activities for agriculture and forestry	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
211000 Oil and gas extraction	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
212100 Coal mining	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
212230 Copper, nickel, lead, and zinc mining	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2122A0 Iron, gold, silver, and other metal ore mining	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
212310 Stone mining and quarrying	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2123A0 Other nonmetallic mineral mining and quarrying	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
213111 Drilling oil and gas wells	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21311A Other support activities for mining	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2211A0 Electric power generation, transmission, and distribution*	1.0920	0.1787	2.1604	0.6348	1.1540	1.2264
221200 Natural gas distribution	1.1061	0.1902	2.5843	0.6645	1.2280	1.2594
221300 Water, sewage and other systems	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2332E0 Nonresidential structures	1.0792	0.2661	5.2587	0.5945	1.0663	1.0780
23030A Maintenance and repair	1.1593	0.1764	3.9177	0.5210	1.2974	1.4040
2334B0 Residential structures	1.1433	0.2642	5.4694	0.6160	1.1648	1.2368
2332F0 Transportation structures and highways and streets	1.0878	0.1586	3.1436	0.5648	1.1220	1.1334
321100 Sawmills and wood preservation	1.2720	0.0915	2.3160	0.3839	1.6485	1.6107
321200 Veneer, plywood, and engineered wood product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
321910 Millwork	1.2992	0.1054	2.5406	0.4509	1.4663	1.4299
3219A0 All other wood product manufacturing	1.2087	0.0951	2.1358	0.4279	1.3945	1.3901
327100 Clay product and refractory manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
327200 Glass and glass product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
327310 Cement manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
327320 Ready-mix concrete manufacturing	1.1486	0.1053	1.9875	0.4033	1.4304	1.4456

(Continued)

Region Definition: Metcalfe, KY

*Includes Government enterprises.

1. Each entry in column 1 represents the total dollar change in output that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

2. Each entry in column 2 represents the total dollar change in earnings of households employed by all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

3. Each entry in column 3 represents the total change in number of jobs that occurs in all industries for each additional 1 million dollars of output delivered to final demand by the industry corresponding to the entry. Because the employment multipliers are based on 2017 data, the output delivered to final demand should be in 2017 dollars.

4. Each entry in column 4 represents the total dollar change in value added that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

5. Each entry in column 5 represents the total dollar change in earnings of households employed by all industries for each additional dollar of earnings paid directly to households employed by the industry corresponding to the entry.

6. Each entry in column 6 represents the total change in number of jobs in all industries for each additional job in the industry corresponding to the entry.

NOTE.--Multipliers are based on the 2012 Benchmark Input-Output Table for the Nation and 2017 regional data. Industry List A identifies the industries corresponding to the entries.

SOURCE.--Regional Input-Output Modeling System (RIMS II), Regional Product Division, Bureau of Economic Analysis.

Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry
Glover Creek Project, Metcalfe County (Type I)

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
327330 Concrete pipe, brick, and block manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
327390 Other concrete product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
327400 Lime and gypsum product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
327910 Abrasive product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
327991 Cut stone and stone product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
327992 Ground or treated mineral and earth manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
327993 Mineral wool manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
327999 Miscellaneous nonmetallic mineral products	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
331110 Iron and steel mills and ferroalloy manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
331200 Steel product manufacturing from purchased steel	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
331314 Secondary smelting and alloying of aluminum	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
331313 Alumina refining and primary aluminum production	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33131B Aluminum product manufacturing from purchased aluminum	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
331410 Nonferrous metal (except aluminum) smelting and refining	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
331420 Copper rolling, drawing, extruding, and alloying	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
331490 Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
331510 Ferrous metal foundries	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
331520 Nonferrous metal foundries	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332114 Custom roll forming	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33211A All other forging, stamping, and sintering	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332119 Metal crown, closure, and other metal stamping (except automotive)	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332200 Cutlery and handtool manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332310 Plate work and fabricated structural product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332320 Ornamental and architectural metal products manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332410 Power boiler and heat exchanger manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332420 Metal tank (heavy gauge) manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332430 Metal can, box, and other metal container (light gauge) manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332500 Hardware manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332600 Spring and wire product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332710 Machine shops	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332720 Turned product and screw, nut, and bolt manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000

(Continued)

Region Definition: Metcalfe, KY

*Includes Government enterprises.

1. Each entry in column 1 represents the total dollar change in output that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

2. Each entry in column 2 represents the total dollar change in earnings of households employed by all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

3. Each entry in column 3 represents the total change in number of jobs that occurs in all industries for each additional 1 million dollars of output delivered to final demand by the industry corresponding to the entry. Because the employment multipliers are based on 2017 data, the output delivered to final demand should be in 2017 dollars.

4. Each entry in column 4 represents the total dollar change in value added that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

5. Each entry in column 5 represents the total dollar change in earnings of households employed by all industries for each additional dollar of earnings paid directly to households employed by the industry corresponding to the entry.

6. Each entry in column 6 represents the total change in number of jobs in all industries for each additional job in the industry corresponding to the entry.

NOTE.--Multipliers are based on the 2012 Benchmark Input-Output Table for the Nation and 2017 regional data. Industry List A identifies the industries corresponding to the entries.

SOURCE.--Regional Input-Output Modeling System (RIMS II), Regional Product Division, Bureau of Economic Analysis.

**Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry
Glover Creek Project, Metcalfe County (Type I)**

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
332800 Coating, engraving, heat treating and allied activities	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332913 Plumbing fixture fitting and trim manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33291A Valve and fittings other than plumbing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332991 Ball and roller bearing manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332996 Fabricated pipe and pipe fitting manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33299A Ammunition, arms, ordnance, and accessories manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
332999 Other fabricated metal manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333111 Farm machinery and equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333112 Lawn and garden equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333120 Construction machinery manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333130 Mining and oil and gas field machinery manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333242 Semiconductor machinery manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33329A Other industrial machinery manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333314 Optical instrument and lens manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333316 Photographic and photocopying equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333318 Other commercial and service industry machinery manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333414 Heating equipment (except warm air furnaces) manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333415 Air conditioning, refrigeration, and warm air heating equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333413 Industrial and commercial fan and blower and air purification equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333511 Industrial mold manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333514 Special tool, die, jig, and fixture manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333517 Machine tool manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33351B Cutting and machine tool accessory, rolling mill, and other metalworking machinery manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333611 Turbine and turbine generator set units manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333612 Speed changer, industrial high-speed drive, and gear manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333613 Mechanical power transmission equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333618 Other engine equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333912 Air and gas compressor manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33391A Pump and pumping equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333920 Material handling equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333991 Power-driven handtool manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000

(Continued)

Region Definition: Metcalfe, KY

*Includes Government enterprises.

1. Each entry in column 1 represents the total dollar change in output that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

2. Each entry in column 2 represents the total dollar change in earnings of households employed by all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

3. Each entry in column 3 represents the total change in number of jobs that occurs in all industries for each additional 1 million dollars of output delivered to final demand by the industry corresponding to the entry. Because the employment multipliers are based on 2017 data, the output delivered to final demand should be in 2017 dollars.

4. Each entry in column 4 represents the total dollar change in value added that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

5. Each entry in column 5 represents the total dollar change in earnings of households employed by all industries for each additional dollar of earnings paid directly to households employed by the industry corresponding to the entry.

6. Each entry in column 6 represents the total change in number of jobs in all industries for each additional job in the industry corresponding to the entry.

NOTE.--Multipliers are based on the 2012 Benchmark Input-Output Table for the Nation and 2017 regional data. Industry List A identifies the industries corresponding to the entries.

SOURCE.--Regional Input-Output Modeling System (RIMS II), Regional Product Division, Bureau of Economic Analysis.

**Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry
Glover Creek Project, Metcalfe County (Type I)**

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
333993 Packaging machinery manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333994 Industrial process furnace and oven manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33399A Other general purpose machinery manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33399B Fluid power process machinery	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334111 Electronic computer manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334112 Computer storage device manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334118 Computer terminals and other computer peripheral equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334210 Telephone apparatus manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334220 Broadcast and wireless communications equipment	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334290 Other communications equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334413 Semiconductor and related device manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334418 Printed circuit assembly (electronic assembly) manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33441A Other electronic component manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334510 Electromedical and electrotherapeutic apparatus manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334511 Search, detection, and navigation instruments manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334512 Automatic environmental control manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334513 Industrial process variable instruments manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334514 Totalizing fluid meter and counting device manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334515 Electricity and signal testing instruments manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334516 Analytical laboratory instrument manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334517 Irradiation apparatus manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33451A Watch, clock, and other measuring and controlling device manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334300 Audio and video equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
334610 Manufacturing and reproducing magnetic and optical media	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335110 Electric lamp bulb and part manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335120 Lighting fixture manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335210 Small electrical appliance manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335220 Major household appliance manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335311 Power, distribution, and specialty transformer manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335312 Motor and generator manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335313 Switchgear and switchboard apparatus manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000

(Continued)

Region Definition: Metcalfe, KY

*Includes Government enterprises.

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3. Each entry in column 3 represents the total change in number of jobs that occurs in all industries for each additional 1 million dollars of output delivered to final demand by the industry corresponding to the entry. Because the employment multipliers are based on 2017 data, the output delivered to final demand should be in 2017 dollars.

4. Each entry in column 4 represents the total dollar change in value added that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

5. Each entry in column 5 represents the total dollar change in earnings of households employed by all industries for each additional dollar of earnings paid directly to households employed by the industry corresponding to the entry.

6. Each entry in column 6 represents the total change in number of jobs in all industries for each additional job in the industry corresponding to the entry.

NOTE.--Multipliers are based on the 2012 Benchmark Input-Output Table for the Nation and 2017 regional data. Industry List A identifies the industries corresponding to the entries.

SOURCE.--Regional Input-Output Modeling System (RIMS II), Regional Product Division, Bureau of Economic Analysis.

**Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry
Glover Creek Project, Metcalfe County (Type I)**

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
335314 Relay and industrial control manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335911 Storage battery manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335912 Primary battery manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335920 Communication and energy wire and cable manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335930 Wiring device manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335991 Carbon and graphite product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335999 All other miscellaneous electrical equipment and component manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336111 Automobile manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336112 Light truck and utility vehicle manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336120 Heavy duty truck manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336211 Motor vehicle body manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336212 Truck trailer manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336213 Motor home manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336214 Travel trailer and camper manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336310 Motor vehicle gasoline engine and engine parts manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336320 Motor vehicle electrical and electronic equipment manufacturing	1.1019	0.0724	1.4407	0.2722	1.3512	1.3685
336350 Motor vehicle transmission and power train parts manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336360 Motor vehicle seating and interior trim manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336370 Motor vehicle metal stamping	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336390 Other motor vehicle parts manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3363A0 Motor vehicle steering, suspension component (except spring), and brake systems manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336411 Aircraft manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336412 Aircraft engine and engine parts manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336413 Other aircraft parts and auxiliary equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336414 Guided missile and space vehicle manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33641A Propulsion units and parts for space vehicles and guided missiles	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336500 Railroad rolling stock manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336611 Ship building and repairing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336612 Boat building	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336991 Motorcycle, bicycle, and parts manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336992 Military armored vehicle, tank, and tank component manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336999 All other transportation equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000

(Continued)

Region Definition: Metcalfe, KY

*Includes Government enterprises.

1. Each entry in column 1 represents the total dollar change in output that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

2. Each entry in column 2 represents the total dollar change in earnings of households employed by all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

3. Each entry in column 3 represents the total change in number of jobs that occurs in all industries for each additional 1 million dollars of output delivered to final demand by the industry corresponding to the entry. Because the employment multipliers are based on 2017 data, the output delivered to final demand should be in 2017 dollars.

4. Each entry in column 4 represents the total dollar change in value added that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

5. Each entry in column 5 represents the total dollar change in earnings of households employed by all industries for each additional dollar of earnings paid directly to households employed by the industry corresponding to the entry.

6. Each entry in column 6 represents the total change in number of jobs in all industries for each additional job in the industry corresponding to the entry.

NOTE.--Multipliers are based on the 2012 Benchmark Input-Output Table for the Nation and 2017 regional data. Industry List A identifies the industries corresponding to the entries.

SOURCE.--Regional Input-Output Modeling System (RIMS II), Regional Product Division, Bureau of Economic Analysis.

**Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry
Glover Creek Project, Metcalfe County (Type I)**

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
337110 Wood kitchen cabinet and countertop manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
337121 Upholstered household furniture manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
337122 Nonupholstered wood household furniture manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
337127 Institutional furniture manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33712N Other household nonupholstered furniture	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
337215 Showcase, partition, shelving, and locker manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33721A Office furniture and custom architectural woodwork and millwork manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
337900 Other furniture related product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
339112 Surgical and medical instrument manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
339113 Surgical appliance and supplies manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
339114 Dental equipment and supplies manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
339115 Ophthalmic goods manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
339116 Dental laboratories	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
339910 Jewelry and silverware manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
339920 Sporting and athletic goods manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
339930 Doll, toy, and game manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
339940 Office supplies (except paper) manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
339950 Sign manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
339990 All other miscellaneous manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311111 Dog and cat food manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311119 Other animal food manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311210 Flour milling and malt manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311221 Wet corn milling	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311225 Fats and oils refining and blending	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311224 Soybean and other oilseed processing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311230 Breakfast cereal manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311300 Sugar and confectionery product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311410 Frozen food manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311420 Fruit and vegetable canning, pickling, and drying	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311513 Cheese manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311514 Dry, condensed, and evaporated dairy product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
31151A Fluid milk and butter manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311520 Ice cream and frozen dessert manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311615 Poultry processing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
31161A Animal (except poultry) slaughtering, rendering, and processing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000

(Continued)

Region Definition: Metcalfe, KY

*Includes Government enterprises.

1. Each entry in column 1 represents the total dollar change in output that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

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3. Each entry in column 3 represents the total change in number of jobs that occurs in all industries for each additional 1 million dollars of output delivered to final demand by the industry corresponding to the entry. Because the employment multipliers are based on 2017 data, the output delivered to final demand should be in 2017 dollars.

4. Each entry in column 4 represents the total dollar change in value added that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

5. Each entry in column 5 represents the total dollar change in earnings of households employed by all industries for each additional dollar of earnings paid directly to households employed by the industry corresponding to the entry.

6. Each entry in column 6 represents the total change in number of jobs in all industries for each additional job in the industry corresponding to the entry.

NOTE.--Multipliers are based on the 2012 Benchmark Input-Output Table for the Nation and 2017 regional data. Industry List A identifies the industries corresponding to the entries.

SOURCE.--Regional Input-Output Modeling System (RIMS II), Regional Product Division, Bureau of Economic Analysis.

**Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry
Glover Creek Project, Metcalfe County (Type I)**

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
311700 Seafood product preparation and packaging	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311810 Bread and bakery product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3118A0 Cookie, cracker, pasta, and tortilla manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311910 Snack food manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311920 Coffee and tea manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311930 Flavoring syrup and concentrate manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311940 Seasoning and dressing manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311990 All other food manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
312110 Soft drink and ice manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
312120 Breweries	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
312130 Wineries	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
312140 Distilleries	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
312200 Tobacco product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
313100 Fiber, yarn, and thread mills	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
313200 Fabric mills	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
313300 Textile and fabric finishing and fabric coating mills	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
314110 Carpet and rug mills	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
314120 Curtain and linen mills	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
314900 Other textile product mills	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
315000 Apparel manufacturing	1.0684	0.3154	12.9222	0.6244	1.0700	1.0466
316000 Leather and allied product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
322110 Pulp mills	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
322120 Paper mills	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
322130 Paperboard mills	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
322210 Paperboard container manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
322220 Paper bag and coated and treated paper manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
322230 Stationery product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
322291 Sanitary paper product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
322299 All other converted paper product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
323110 Printing	1.1211	0.1867	4.4456	0.5043	1.1401	1.1407
323120 Support activities for printing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
324110 Petroleum refineries	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
324121 Asphalt paving mixture and block manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
324122 Asphalt shingle and coating materials manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
324190 Other petroleum and coal products manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325110 Petrochemical manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325120 Industrial gas manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000

(Continued)

Region Definition: Metcalfe, KY

*Includes Government enterprises.

1. Each entry in column 1 represents the total dollar change in output that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.
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3. Each entry in column 3 represents the total change in number of jobs that occurs in all industries for each additional 1 million dollars of output delivered to final demand by the industry corresponding to the entry. Because the employment multipliers are based on 2017 data, the output delivered to final demand should be in 2017 dollars.
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5. Each entry in column 5 represents the total dollar change in earnings of households employed by all industries for each additional dollar of earnings paid directly to households employed by the industry corresponding to the entry.
6. Each entry in column 6 represents the total change in number of jobs in all industries for each additional job in the industry corresponding to the entry.

NOTE.--Multipliers are based on the 2012 Benchmark Input-Output Table for the Nation and 2017 regional data. Industry List A identifies the industries corresponding to the entries.

SOURCE.--Regional Input-Output Modeling System (RIMS II), Regional Product Division, Bureau of Economic Analysis.

**Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry
Glover Creek Project, Metcalfe County (Type I)**

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
325130 Synthetic dye and pigment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325180 Other basic inorganic chemical manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325190 Other basic organic chemical manufacturing	1.2949	0.1439	2.6683	0.3170	1.5092	2.5036
325211 Plastics material and resin manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3252A0 Synthetic rubber and artificial and synthetic fibers and filaments manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325411 Medicinal and botanical manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325412 Pharmaceutical preparation manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325413 In-vitro diagnostic substance manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325414 Biological product (except diagnostic) manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325310 Fertilizer manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325320 Pesticide and other agricultural chemical manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325510 Paint and coating manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325520 Adhesive manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325610 Soap and cleaning compound manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325620 Toilet preparation manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
325910 Printing ink manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3259A0 All other chemical product and preparation manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
326110 Plastics packaging materials and unlaminated film and sheet manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
326120 Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
326130 Laminated plastics plate, sheet (except packaging), and shape manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
326140 Polystyrene foam product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
326150 Urethane and other foam product (except polystyrene) manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
326160 Plastics bottle manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
326190 Other plastics product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
326210 Tire manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
326220 Rubber and plastics hoses and belting manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
326290 Other rubber product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
420000 Wholesale trade	1.0748	0.2557	4.1850	0.6467	1.1016	1.1311
441000 Motor vehicle and parts dealers	1.0506	0.3919	8.8803	0.7546	1.0342	1.0386
445000 Food and beverage stores	1.0766	0.3708	15.6602	0.6786	1.0535	1.0288
452000 General merchandise stores	1.0733	0.3293	14.2864	0.6772	1.0723	1.0304
444000 Building material and garden equipment and supplies dealers	1.0520	0.3568	11.0342	0.7687	1.0404	1.0278
446000 Health and personal care stores	1.0585	0.4397	12.6931	0.6922	1.0358	1.0276

(Continued)

Region Definition: Metcalfe, KY

*Includes Government enterprises.

1. Each entry in column 1 represents the total dollar change in output that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

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6. Each entry in column 6 represents the total change in number of jobs in all industries for each additional job in the industry corresponding to the entry.

NOTE.--Multipliers are based on the 2012 Benchmark Input-Output Table for the Nation and 2017 regional data. Industry List A identifies the industries corresponding to the entries.

SOURCE.--Regional Input-Output Modeling System (RIMS II), Regional Product Division, Bureau of Economic Analysis.

**Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry
Glover Creek Project, Metcalfe County (Type I)**

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
447000 Gasoline stations	1.0890	0.3437	13.6814	0.6384	1.0701	1.0419
448000 Clothing and clothing accessories stores	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
454000 Nonstore retailers	1.0595	0.2336	13.9223	0.7081	1.0736	1.0257
4B0000 All other retail	1.0622	0.4074	18.7343	0.6572	1.0406	1.0187
481000 Air transportation	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
482000 Rail transportation	1.0908	0.2192	2.8350	0.5516	1.0890	1.2062
483000 Water transportation	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
484000 Truck transportation	1.1370	0.3572	7.3585	0.5106	1.1466	1.1886
485A00 Transit and ground passenger transportation*	1.1121	0.3700	25.1810	0.4313	1.0710	1.0241
486000 Pipeline transportation	1.0872	0.5512	5.3226	0.7459	1.0446	1.1024
48A000 Scenic and sightseeing transportation and support activities for transportation	1.0833	0.3959	6.9198	0.5321	1.0656	1.0880
492000 Couriers and messengers	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
493000 Warehousing and storage	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
511110 Newspaper publishers	1.1080	0.3399	10.9819	0.7463	1.0862	1.0559
511120 Periodical publishers	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
511130 Book publishers	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5111A0 Directory, mailing list, and other publishers	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
511200 Software publishers	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
512100 Motion picture and video industries	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
512200 Sound recording industries	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
515100 Radio and television broadcasting	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
515200 Cable and other subscription programming	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
517110 Wired telecommunications carriers	1.1069	0.1834	3.1454	0.6149	1.1308	1.1510
517210 Wireless telecommunications carriers (except satellite)	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
517A00 Satellite, telecommunications resellers, and all other telecommunications	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
518200 Data processing, hosting, and related services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
519130 Internet publishing and broadcasting and web search portals	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5191A0 News syndicates, libraries, archives, and all other information services	1.0453	0.2541	5.9430	0.6605	1.0570	1.0607
522A00 Nondepository credit intermediation and related activities	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
52A000 Monetary authorities and depository credit intermediation	1.0642	0.1803	3.3708	0.7512	1.0888	1.1185
523900 Other financial investment activities	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
523A00 Securities and commodity contracts intermediation and brokerage	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
524113 Direct life insurance carriers	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5241XX Insurance carriers, except direct life insurance	1.0935	0.1846	2.4698	0.5565	1.1030	1.1698

(Continued)

Region Definition: Metcalfe, KY

*Includes Government enterprises.

1. Each entry in column 1 represents the total dollar change in output that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.
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**Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry
Glover Creek Project, Metcalfe County (Type I)**

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
524200 Insurance agencies, brokerages, and related activities	1.1531	0.1975	3.7076	0.5136	1.1574	1.1661
525000 Funds, trusts, and other financial vehicles	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
531000 Real estate	1.0536	0.1650	7.9282	0.7744	1.0653	1.0317
532100 Automotive equipment rental and leasing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
532400 Commercial and industrial machinery and equipment rental and leasing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
532A00 General and consumer goods rental	1.0891	0.3976	11.2379	0.6089	1.0609	1.0446
533000 Lessors of nonfinancial intangible assets	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
541100 Legal services	1.0565	0.4511	5.7867	0.7407	1.0341	1.0732
541511 Custom computer programming services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
541512 Computer systems design services	1.0322	0.4126	6.0281	0.7726	1.0210	1.0396
54151A Other computer related services, including facilities management	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
541200 Accounting, tax preparation, bookkeeping, and payroll services	1.0421	0.4431	9.9729	0.7953	1.0261	1.0299
541300 Architectural, engineering, and related services	1.0734	0.3618	5.7019	0.6433	1.0496	1.0779
541610 Management consulting services	1.0832	0.4031	9.5983	0.6863	1.0562	1.0651
5416A0 Environmental and other technical consulting services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
541700 Scientific research and development services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
541800 Advertising, public relations, and related services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
541400 Specialized design services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
541920 Photographic services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
541940 Veterinary services	1.0207	0.4910	14.0489	0.7038	1.0112	1.0081
5419A0 All other miscellaneous professional, scientific, and technical services	1.0500	0.2827	5.6594	0.6992	1.0505	1.0599
550000 Management of companies and enterprises	1.0616	0.4695	6.4818	0.6706	1.0312	1.0538
561300 Employment services	1.0353	0.6145	22.6402	0.7930	1.0200	1.0130
561700 Services to buildings and dwellings	1.0756	0.3733	14.8190	0.6410	1.0639	1.0423
561100 Office administrative services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
561200 Facilities support services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
561400 Business support services	1.0706	0.4596	15.0821	0.6157	1.0477	1.0338
561500 Travel arrangement and reservation services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
561600 Investigation and security services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
561900 Other support services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
562000 Waste management and remediation services	1.0649	0.2547	5.1539	0.5471	1.0841	1.0963
611100 Elementary and secondary schools	1.0325	0.5883	27.1335	0.8118	1.0138	1.0099
611A00 Junior colleges, colleges, universities, and professional schools	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
611B00 Other educational services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000

(Continued)

Region Definition: Metcalfe, KY

*Includes Government enterprises.

1. Each entry in column 1 represents the total dollar change in output that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

2. Each entry in column 2 represents the total dollar change in earnings of households employed by all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

3. Each entry in column 3 represents the total change in number of jobs that occurs in all industries for each additional 1 million dollars of output delivered to final demand by the industry corresponding to the entry. Because the employment multipliers are based on 2017 data, the output delivered to final demand should be in 2017 dollars.

4. Each entry in column 4 represents the total dollar change in value added that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

5. Each entry in column 5 represents the total dollar change in earnings of households employed by all industries for each additional dollar of earnings paid directly to households employed by the industry corresponding to the entry.

6. Each entry in column 6 represents the total change in number of jobs in all industries for each additional job in the industry corresponding to the entry.

NOTE.--Multipliers are based on the 2012 Benchmark Input-Output Table for the Nation and 2017 regional data. Industry List A identifies the industries corresponding to the entries.

SOURCE.--Regional Input-Output Modeling System (RIMS II), Regional Product Division, Bureau of Economic Analysis.

**Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry
Glover Creek Project, Metcalfe County (Type I)**

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
621100 Offices of physicians	1.0521	0.4337	5.3415	0.7062	1.0335	1.0715
621200 Offices of dentists	1.0466	0.3767	7.7931	0.6857	1.0330	1.0353
621300 Offices of other health practitioners	1.0451	0.3317	7.3218	0.7114	1.0312	1.0327
621400 Outpatient care centers	1.0483	0.1733	3.4514	0.5958	1.0730	1.1017
621500 Medical and diagnostic laboratories	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
621600 Home health care services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
621900 Other ambulatory health care services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
622000 Hospitals	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
623A00 Nursing and community care facilities	1.0536	0.3536	11.9827	0.6257	1.0388	1.0324
623B00 Residential mental health, substance abuse, and other residential care facilities	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
624100 Individual and family services	1.0554	0.3683	15.7214	0.6169	1.0384	1.0219
624400 Child day care services	1.0414	0.3539	20.3636	0.6943	1.0238	1.0121
624A00 Community food, housing, and other relief services, including rehabilitation services	1.1000	0.2745	9.7076	0.4820	1.0885	1.0561
711100 Performing arts companies	1.0305	0.4135	27.9238	0.6676	1.0197	1.0079
711200 Spectator sports	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
711500 Independent artists, writers, and performers	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
711A00 Promoters of performing arts and sports and agents for public figures	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
712000 Museums, historical sites, zoos, and parks	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
713100 Amusement parks and arcades	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
713200 Gambling industries (except casino hotels)	1.0468	0.2571	9.9767	0.6775	1.0492	1.0314
713900 Other amusement and recreation industries	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
721000 Accommodation	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
722110 Full-service restaurants	1.0791	0.2022	9.0732	0.6219	1.1351	1.0572
722211 Limited-service restaurants	1.1008	0.1377	6.7278	0.4972	1.2599	1.1066
722A00 All other food and drinking places	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
811100 Automotive repair and maintenance	1.0727	0.5107	14.0430	0.6641	1.0401	1.0344
811200 Electronic and precision equipment repair and maintenance	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
811300 Commercial and industrial machinery and equipment repair and maintenance	1.0503	0.5042	9.4133	0.6458	1.0259	1.0309
811400 Personal and household goods repair and maintenance	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
812100 Personal care services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
812200 Death care services	1.0107	0.5051	14.2773	0.6216	1.0061	1.0041
812300 Dry-cleaning and laundry services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
812900 Other personal services	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
813100 Religious organizations	1.1073	0.1806	5.3594	0.3315	1.1662	1.1342

(Continued)

Region Definition: Metcalfe, KY

*Includes Government enterprises.

1. Each entry in column 1 represents the total dollar change in output that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

2. Each entry in column 2 represents the total dollar change in earnings of households employed by all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

3. Each entry in column 3 represents the total change in number of jobs that occurs in all industries for each additional 1 million dollars of output delivered to final demand by the industry corresponding to the entry. Because the employment multipliers are based on 2017 data, the output delivered to final demand should be in 2017 dollars.

4. Each entry in column 4 represents the total dollar change in value added that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

5. Each entry in column 5 represents the total dollar change in earnings of households employed by all industries for each additional dollar of earnings paid directly to households employed by the industry corresponding to the entry.

6. Each entry in column 6 represents the total change in number of jobs in all industries for each additional job in the industry corresponding to the entry.

NOTE.--Multipliers are based on the 2012 Benchmark Input-Output Table for the Nation and 2017 regional data. Industry List A identifies the industries corresponding to the entries.

SOURCE.--Regional Input-Output Modeling System (RIMS II), Regional Product Division, Bureau of Economic Analysis.

**Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry
Glover Creek Project, Metcalfe County (Type I)**

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
813A00 Grantmaking, giving, and social advocacy organizations	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
813B00 Civic, social, professional, and similar organizations	1.0861	0.5011	15.8564	0.6546	1.0394	1.0322
491000 Postal service	1.0927	0.5089	8.8656	0.6380	1.0395	1.0515
S00A00 Other government enterprises	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
H00000 Households	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Region Definition: Metcalfe, KY

*Includes Government enterprises.

1. Each entry in column 1 represents the total dollar change in output that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.
2. Each entry in column 2 represents the total dollar change in earnings of households employed by all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.
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4. Each entry in column 4 represents the total dollar change in value added that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.
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6. Each entry in column 6 represents the total change in number of jobs in all industries for each additional job in the industry corresponding to the entry.

NOTE.--Multipliers are based on the 2012 Benchmark Input-Output Table for the Nation and 2017 regional data. Industry List A identifies the industries corresponding to the entries.

SOURCE.--Regional Input-Output Modeling System (RIMS II), Regional Product Division, Bureau of Economic Analysis.