

## **1. Village of Itasca 2009 and 2014 Population figures (See Table II-1)**

The population estimates are from the U.S. Census Bureau *Population and Housing Unit Estimates* program. Current published datasets are linked below.

<https://www.census.gov/data/tables/time-series/demo/popest/2010s-total-cities-and-towns.html>

Note that the historical references to Village population and employment are only included to characterize how the service population, and associated service expenditures, have likely changed over time. They are not factored into any calculation of future fiscal or economic impact associated with the proposed Haymarket DuPage facility.

## **2. Projected Natural gas purchases and Haymarket DuPage electric consumption (Kilowatt-Hours) (See Table II-3)**

Annual utility expenditure estimates were provided by Haymarket DuPage. See **Attachment 1**. Because the Village of Itasca collects utility tax (for electric) on the basis of kilowatt-hours consumed, the annual expenditure was converted to kilowatt-hours using an average commercial electric rate of \$0.08 per kilowatt-hour. This is explained in Footnote #2 of Table II-3.

## **3. Identification of which costs items determined to be variable costs to calculate the estimated variable cost figures in the following tables (See Tables II-5, II-6, and III-2)**

The items determined to be variable service costs are summarized in the text following each table. As also noted, regarding the Public Safety (Police) operating budget, “debt service and capital outlays” are excluded (Table II-5, Footnote #2). See below for the relevant descriptions included in the report:

### Public Safety (Police) – Table II-5

“Personnel costs for management and administrative staff related to salaries, payroll tax, and benefits are estimated as fixed costs. All pension costs are assumed to be fixed. In addition, the estimate treats non-payroll costs including building and equipment maintenance, liability insurance, and professional services as fixed operating expenditures.” (Page 6)

### General Government – Table II-6

“Adjusting for variable expenses identified from a review of the budget for debt service; payments for garbage service/collection which will not apply to Haymarket DuPage; and legislative (Village Board) expenses; produces an estimate that at least 50 percent of general government service costs are fixed and do not vary with changes in population or employment. We have not accounted for fixed costs with respect to administrative personnel.” (Page 7)

Fire Protection District – Table III-2

“[T]he Fire Chief, Deputy Fire Chief, and Fire Prevention Director comprise 12 percent of all ‘base salary’ and ‘overtime’ pay for the Itasca Fire Protection District. Additionally, administration, contracted services, debt service and risk reduction (liability) payments represent about 10 percent of annual expenses as of 2018. Therefore, the calculation presented in Table III-2 assumes that 22 percent of overall Itasca Fire Protection District costs are fixed.” (Page 11)

**4. Haymarket direct annual payroll (See Table IV-1)**

Annual direct payroll estimates were provided by Haymarket DuPage.

**5. RIMS II data used to determine 7.834 direct jobs per \$1,000,000. (See Table IV-1)**

See a copy of the RIMS II multipliers for DuPage County, provided as Attachment 1. The following table further summarizes the derivation of the estimate. The final demand multiplier is divided by the direct effects multiplier to determine direct employment per \$1,000,000 of annual output.

<b>623B00 Residential mental health, substance abuse, and other residential care facilities</b>				
<i>Final Demand Employment Multiplier</i>	÷	<i>Direct Effects Employment Multiplier</i>	=	<i>Direct Employment per \$1,000,000</i>
9.8165	÷	1.2531	=	7.834

**6. Haymarket employees located in DuPage County (See Table V-1)**

As noted in Table V-1, a total of 50 employees are assumed to reside in DuPage County. The text following the table explains the rationale for this assumption; it is consistent with the in-commuting patterns of the local economy. The majority (69 percent) of direct Haymarket DuPage are presumed to reside outside of the county. All else being equal, if more than 50 direct Haymarket DuPage employees reside in DuPage County, the indirect economic impacts specifically attributable to payroll expenditures will be larger (and vice versa). These indirect impacts are summarized in Table VI-2 (top row, “Payroll expenditures”).

**7. Support for the non-payroll operating expenditures (i.e., annual expenditure amounts and local purchase shares) listed in the table referenced (See Table V-2)**

Initial estimates of non-payroll spending were provided by Haymarket DuPage. Further clarification and revisions to projected non-payroll expenditures were also provided by a representative of Haymarket DuPage after the operating proforma for the proposed facility had been finalized.

The rationale for the local purchases are summarized in the report. See Page 19. As an additional example not explicitly summarized in the report narrative, Haymarket DuPage will contract with Aramark to provide food service at the facility. The contracting Aramark branch is in Downers

Grove (i.e., within DuPage County) and therefore this non-payroll expenditure is treated as a local purchase.

**8. Number of indirect jobs created from payroll expenditures, non-payroll expenditures, and non-local worker spending (See Table VI-2)**

The estimated indirect employment impacts are all based on the RIMS II multipliers for appropriate industry sectors in DuPage County. See **Attachment 1** for a copy of the detailed final demand and direct effect multipliers.

**9. Municipal Cost Index/Consumer Price index rates used to adjust to 2020 dollars throughout report.**

The Municipal Cost Index (MCI) data is accessible from the link below:

<https://www.americancityandcounty.com/municipal-cost-index/>

The MCI inflation index was used to characterize historical Village operating costs in current dollars (Table II-2). The estimated inflation factors per the MCI (inflated to April 2020) are as follows:

- *May 2008 – April 2009* = 1.203
- *May 2013 – April 2014* = 1.087
- *May 2018 – April 2019* = 0.997

The Consumer Price Index for the Chicago Metropolitan Statistical Area is available online as well:

[https://data.bls.gov/timeseries/CUURS23ASA0?amp%253bdata\\_tool=XGtable&output\\_view=ata&include\\_graphs=true](https://data.bls.gov/timeseries/CUURS23ASA0?amp%253bdata_tool=XGtable&output_view=data&include_graphs=true)

**10. RIMS II multipliers used throughout the report.**

See **Attachment 1**.

RIMS II Multipliers (2012/2017)

Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry  
DuPage County (Type II)

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	1.6389	0.1947	6.8118	0.7098	1.5951	1.2859
111200 Vegetable and melon farming	1.5710	0.2431	13.9557	0.8456	1.3929	1.1127
111300 Fruit and tree nut farming	1.4274	0.2534	13.6621	0.9134	1.2689	1.0879
111400 Greenhouse, nursery, and floriculture production	1.5721	0.3303	16.3960	0.8481	1.2898	1.1119
111900 Other crop farming	1.5497	0.2401	10.1152	0.8094	1.3850	1.1570
112120 Dairy cattle and milk production	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1121A0 Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	1.3976	0.1580	7.1006	0.5379	1.4645	1.1676
112300 Poultry and egg production	1.5840	0.1721	6.2317	0.4417	1.7650	1.2782
112A00 Animal production, except cattle and poultry and eggs	1.3140	0.1865	8.1447	0.8255	1.2879	1.1187
113000 Forestry and logging	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
114000 Fishing, hunting and trapping	1.4154	0.2315	10.4989	0.9447	1.3254	1.1236
115000 Support activities for agriculture and forestry	1.5557	0.4711	12.9093	1.0453	1.2019	1.1508
211000 Oil and gas extraction	1.4248	0.1954	4.0350	0.8646	1.4572	1.3694
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	1.5806	0.1599	2.6637	0.8723	2.0753	2.2348
2123A0 Other nonmetallic mineral mining and quarrying	1.5892	0.1701	2.6860	0.8414	1.8499	2.0209
213111 Drilling oil and gas wells	1.5720	0.2091	5.0163	0.8652	1.6515	1.4222
21311A Other support activities for mining	1.6755	0.2416	5.6120	0.9323	1.7238	1.5046
2211A0 Electric power generation, transmission, and distribution*	1.3433	0.0906	1.3276	0.7843	2.1765	3.7224
221200 Natural gas distribution	1.3655	0.0997	1.5483	0.8235	2.3951	3.2142
221300 Water, sewage and other systems	1.3890	0.1042	1.7803	0.8814	2.2978	2.4610
2332E0 Nonresidential structures	1.6346	0.2928	5.0390	0.9093	1.4149	1.5037
23030A Maintenance and repair	1.6472	0.1996	3.6868	0.7917	1.7700	1.9490
2334B0 Residential structures	1.6455	0.2776	5.0522	0.9025	1.4762	1.6027
2332F0 Transportation structures and highways and streets	1.5186	0.1869	3.0513	0.8116	1.5950	1.7411
321100 Sawmills and wood preservation	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
321200 Veneer, plywood, and engineered wood product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
321910 Millwork	1.5316	0.1542	3.4660	0.6314	1.7794	1.5846
3219A0 All other wood product manufacturing	1.5608	0.1543	3.6956	0.6548	1.8754	1.5785
327100 Clay product and refractory manufacturing	1.7044	0.1937	3.3798	0.8514	1.8669	1.9326
327200 Glass and glass product manufacturing	1.6389	0.1646	2.9003	0.7757	1.9008	1.9561
327310 Cement manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
327320 Ready-mix concrete manufacturing	1.6321	0.1694	2.8786	0.6825	1.9084	2.0426

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Region Definition: DuPage, IL

\*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.

RIMS II Multipliers (2012/2017)

Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry DuPage County (Type II)

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	1.7095	0.1967	3.6430	0.8132	1.9017	1.9381
327400 Lime and gypsum product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
327910 Abrasive product manufacturing	1.4937	0.1220	2.0724	0.8819	1.8888	2.0094
327991 Cut stone and stone product manufacturing	1.6688	0.2000	3.8723	0.8258	1.7683	1.7453
327992 Ground or treated mineral and earth manufacturing	1.5733	0.1418	2.1696	0.8026	1.9992	2.4467
327993 Mineral wool manufacturing	1.5756	0.1524	2.6591	0.7809	1.8032	1.8747
327999 Miscellaneous nonmetallic mineral products	1.5916	0.1395	2.3966	0.8094	2.0301	2.1379
331110 Iron and steel mills and ferroalloy manufacturing	1.6507	0.1423	2.2331	0.5377	2.2027	2.6727
331200 Steel product manufacturing from purchased steel	1.5414	0.1297	2.1472	0.5561	2.0076	2.2645
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	1.5003	0.1263	2.3554	0.4889	1.9542	1.9449
331410 Nonferrous metal (except aluminum) smelting and refining	1.3657	0.1108	1.6781	0.5786	1.7155	2.1044
331420 Copper rolling, drawing, extruding, and alloying	1.5121	0.1237	2.0101	0.3818	1.9141	2.1711
331490 Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	1.5816	0.1308	2.1828	0.5222	2.0250	2.2265
331510 Ferrous metal foundries	1.5813	0.1673	2.8668	0.7662	1.7708	1.9334
331520 Nonferrous metal foundries	1.6000	0.1773	3.4675	0.7278	1.8709	1.8757
332114 Custom roll forming	1.5448	0.1274	2.2241	0.5011	1.9712	2.0521
33211A All other forging, stamping, and sintering	1.6701	0.1583	2.7072	0.6639	2.0532	2.3342
332119 Metal crown, closure, and other metal stamping (except automotive)	1.5977	0.1617	2.8943	0.6639	1.7655	1.8036
332200 Cutlery and handtool manufacturing	1.5714	0.1927	3.3610	0.8083	1.6198	1.7112
332310 Plate work and fabricated structural product manufacturing	1.6371	0.1752	3.1296	0.6780	1.8722	2.0282
332320 Ornamental and architectural metal products manufacturing	1.6776	0.1972	3.6685	0.7504	1.7862	1.8211
332410 Power boiler and heat exchanger manufacturing	1.6691	0.1819	2.7776	0.7641	1.8051	2.1232
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	1.5546	0.1250	2.0558	0.5229	1.9347	2.1525
332500 Hardware manufacturing	1.7008	0.1624	3.0338	0.7428	2.2067	2.1564
332600 Spring and wire product manufacturing	1.6809	0.1806	3.2521	0.7022	1.8623	1.9305
332710 Machine shops	1.6688	0.2477	4.5467	0.8714	1.5778	1.6314
332720 Turned product and screw, nut, and bolt manufacturing	1.6240	0.1427	2.5024	0.7364	2.2084	2.3222

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Region Definition: DuPage, IL

\*Includes Government enterprises.

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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.

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 DuPage County (Type II)

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	1.5900	0.1698	3.2122	0.7508	1.7081	1.6864
332913 Plumbing fixture fitting and trim manufacturing	1.6596	0.1419	2.3639	0.7188	2.1961	2.4587
33291A Valve and fittings other than plumbing	1.6298	0.1631	2.7626	0.7505	1.9398	2.1457
332991 Ball and roller bearing manufacturing	1.6227	0.1823	3.2134	0.7996	1.7724	1.8651
332996 Fabricated pipe and pipe fitting manufacturing	1.5786	0.1630	2.6636	0.6953	1.7750	1.9673
33299A Ammunition, arms, ordnance, and accessories manufacturing	1.4972	0.1581	2.5793	0.7688	1.6966	1.8911
332999 Other fabricated metal manufacturing	1.6333	0.1802	3.2395	0.7333	1.7817	1.8481
333111 Farm machinery and equipment manufacturing	1.6624	0.1451	2.4950	0.6256	2.2461	2.3794
333112 Lawn and garden equipment manufacturing	1.7817	0.1517	2.9819	0.5967	2.3480	2.0476
333120 Construction machinery manufacturing	1.5372	0.1319	2.1323	0.6589	2.0413	2.3285
333130 Mining and oil and gas field machinery manufacturing	1.6281	0.1834	3.1095	0.7251	1.7557	1.9590
333242 Semiconductor machinery manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33329A Other industrial machinery manufacturing	1.7352	0.1752	2.8507	0.7960	2.1711	2.3605
333314 Optical instrument and lens manufacturing	1.6785	0.2656	4.4717	0.8742	1.5557	1.6538
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	1.6514	0.1672	2.6550	0.7667	1.9622	2.1953
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	1.6385	0.1401	2.3817	0.7167	2.1491	2.1686
333413 Industrial and commercial fan and blower and air purification equipment manufacturing	1.5886	0.1654	2.8122	0.7059	1.7881	1.8516
333511 Industrial mold manufacturing	1.7146	0.2400	4.2044	0.8662	1.6461	1.6842
333514 Special tool, die, jig, and fixture manufacturing	1.6773	0.2816	4.9160	0.9388	1.4918	1.5302
333517 Machine tool manufacturing	1.7214	0.1935	3.2568	0.7590	1.9427	2.0489
33351B Cutting and machine tool accessory, rolling mill, and other metalworking machinery manufacturing	1.7329	0.2027	3.2738	0.8160	1.8616	1.9765
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	1.6975	0.1639	2.7960	0.8040	2.1142	2.2698
333613 Mechanical power transmission equipment manufacturing	1.5595	0.1551	2.6230	0.7709	1.8612	1.9548
333618 Other engine equipment manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
333912 Air and gas compressor manufacturing	1.6219	0.1395	2.1581	0.7094	2.1593	2.5869
33391A Pump and pumping equipment manufacturing	1.5915	0.1390	2.1578	0.7280	2.1519	2.5934
333920 Material handling equipment manufacturing	1.6021	0.1385	2.2109	0.6606	2.1440	2.4187
333991 Power-driven handtool manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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Region Definition: DuPage, IL

\*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.

RIMS II Multipliers (2012/2017)

Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry DuPage County (Type II)

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	1.6869	0.1895	2.8939	0.8154	1.9250	2.1672
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	1.6455	0.1539	2.4782	0.7205	2.0642	2.2851
33399B Fluid power process machinery	1.6086	0.1821	2.5890	0.7531	1.7389	2.1705
334111 Electronic computer manufacturing	1.4132	0.2753	3.5936	0.9875	1.2911	1.5141
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	1.4589	0.1742	2.2277	0.8929	1.5164	1.9817
334210 Telephone apparatus manufacturing	1.5149	0.2122	2.8228	0.9800	1.5740	1.9007
334220 Broadcast and wireless communications equipment	1.4236	0.1579	1.9342	0.8897	1.6047	2.1672
334290 Other communications equipment manufacturing	1.6239	0.2820	3.9648	0.9767	1.4716	1.7110
334413 Semiconductor and related device manufacturing	1.4159	0.2028	2.7711	0.9882	1.4354	1.6963
334418 Printed circuit assembly (electronic assembly) manufacturing	1.6423	0.1850	3.2837	0.8238	1.9649	1.8838
33441A Other electronic component manufacturing	1.6712	0.2734	4.6131	0.9230	1.5337	1.6099
334510 Electromedical and electrotherapeutic apparatus manufacturing	1.3166	0.1305	1.7081	0.9692	1.4987	1.8341
334511 Search, detection, and navigation instruments manufacturing	1.3718	0.1868	2.1647	1.0005	1.4259	1.8893
334512 Automatic environmental control manufacturing	1.6258	0.2984	4.3623	0.9777	1.4263	1.5921
334513 Industrial process variable instruments manufacturing	1.6178	0.3158	4.6481	1.0034	1.3898	1.5476
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	1.6149	0.2183	3.1381	0.9147	1.7120	2.1041
334516 Analytical laboratory instrument manufacturing	1.4024	0.1530	2.2265	0.9490	1.5866	1.7991
334517 Irradiation apparatus manufacturing	1.4828	0.1791	2.4143	0.9388	1.5796	1.9364
33451A Watch, clock, and other measuring and controlling device manufacturing	1.3744	0.1613	2.2995	0.9727	1.4882	1.7124
334300 Audio and video equipment manufacturing	1.6051	0.2454	3.2709	0.9482	1.5458	1.8583
334610 Manufacturing and reproducing magnetic and optical media	1.4768	0.1761	2.2064	0.9829	1.6244	2.1099
335110 Electric lamp bulb and part manufacturing	1.6328	0.2001	3.2078	0.8321	1.6564	1.8250
335120 Lighting fixture manufacturing	1.6417	0.1662	2.8515	0.7691	1.8974	2.0487
335210 Small electrical appliance manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
335220 Major household appliance manufacturing	1.5897	0.1337	2.1236	0.7449	2.0423	2.3038
335311 Power, distribution, and specialty transformer manufacturing	1.5412	0.1655	2.5271	0.7035	1.6358	1.8750
335312 Motor and generator manufacturing	1.5498	0.1509	2.2533	0.6971	1.7518	2.0704
335313 Switchgear and switchboard apparatus manufacturing	1.6571	0.1684	2.5759	0.7792	1.9150	2.2710

(Continued)

Region Definition: DuPage, IL

\*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.

RIMS II Multipliers (2012/2017)

Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry DuPage County (Type II)

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	1.6691	0.2206	3.2539	0.8146	1.6290	1.8969
335911 Storage battery manufacturing	1.4675	0.1194	1.8684	0.6480	1.7824	2.0720
335912 Primary battery manufacturing	1.5193	0.1547	2.8479	0.7555	1.6335	1.6627
335920 Communication and energy wire and cable manufacturing	1.4835	0.1203	1.8884	0.5439	1.8619	2.1263
335930 Wiring device manufacturing	1.5114	0.1468	2.4502	0.7679	1.7452	1.8996
335991 Carbon and graphite product manufacturing	1.5658	0.1278	2.3657	0.6924	1.9782	1.9158
335999 All other miscellaneous electrical equipment and component manufacturing	1.6861	0.1800	2.7746	0.7629	2.0831	2.5197
336111 Automobile manufacturing	1.6166	0.1307	2.0563	0.5702	2.0224	2.3018
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	1.8444	0.1649	2.8539	0.6383	2.5530	2.7933
336320 Motor vehicle electrical and electronic equipment manufacturing	1.7278	0.1574	2.8777	0.6082	2.4363	2.3933
336350 Motor vehicle transmission and power train parts manufacturing	1.8105	0.1608	2.8077	0.6356	2.4889	2.6187
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	1.6386	0.1388	2.2775	0.5767	2.1484	2.3585
336390 Other motor vehicle parts manufacturing	1.8327	0.1633	2.9882	0.6405	2.5279	2.5122
3363A0 Motor vehicle steering, suspension component (except spring), and brake systems manufacturing	1.7957	0.1607	2.7110	0.6400	2.4291	2.6513
336411 Aircraft manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
336412 Aircraft engine and engine parts manufacturing	1.2503	0.1133	1.7501	0.6151	1.4520	1.6578
336413 Other aircraft parts and auxiliary equipment manufacturing	1.5103	0.1649	2.4701	0.7577	1.6740	2.0051
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	1.7612	0.1492	2.3833	0.6042	2.3090	2.6083
336611 Ship building and repairing	1.6634	0.2323	4.3906	0.8249	1.6488	1.6998
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	1.6032	0.1336	2.4761	0.5731	2.0672	2.0056

(Continued)

Region Definition: DuPage, IL

\*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  
DuPage County (Type II)

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	1.5893	0.2274	5.0253	0.7571	1.5074	1.4331
337121 Upholstered household furniture manufacturing	1.5979	0.1525	3.0697	0.6094	1.9074	1.7643
337122 Nonupholstered wood household furniture manufacturing	1.6114	0.1907	4.3567	0.6955	1.6772	1.4997
337127 Institutional furniture manufacturing	1.7147	0.1794	3.4870	0.7031	2.0367	1.9666
33712N Other household nonupholstered furniture	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
337215 Showcase, partition, shelving, and locker manufacturing	1.6332	0.1956	3.8928	0.6935	1.6420	1.6039
33721A Office furniture and custom architectural woodwork and millwork manufacturing	1.6387	0.1623	3.0275	0.6885	1.9872	2.0396
337900 Other furniture related product manufacturing	1.8765	0.1692	3.2795	0.7190	2.6187	2.3768
339112 Surgical and medical instrument manufacturing	1.5027	0.1796	2.5643	0.8953	1.5743	1.9512
339113 Surgical appliance and supplies manufacturing	1.4816	0.1482	2.3660	0.8371	1.7504	1.9919
339114 Dental equipment and supplies manufacturing	1.4747	0.1608	2.5654	0.7950	1.6474	1.8459
339115 Ophthalmic goods manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
339116 Dental laboratories	1.6357	0.2769	6.2591	0.9394	1.4890	1.4043
339910 Jewelry and silverware manufacturing	1.5180	0.1317	2.7704	0.6577	2.0392	1.8334
339920 Sporting and athletic goods manufacturing	1.6370	0.1602	2.8107	0.7290	2.0568	2.1630
339930 Doll, toy, and game manufacturing	1.5590	0.1936	3.3903	0.8089	1.6595	1.7091
339940 Office supplies (except paper) manufacturing	1.6543	0.1499	2.7856	0.7083	2.1089	2.0152
339950 Sign manufacturing	1.7131	0.2113	4.1112	0.7708	1.6876	1.6280
339990 All other miscellaneous manufacturing	1.6424	0.1772	3.1274	0.7941	1.9018	1.9816
311111 Dog and cat food manufacturing	1.5167	0.1175	2.2194	0.4987	1.9493	1.8697
311119 Other animal food manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
311210 Flour milling and malt manufacturing	1.3497	0.1048	1.6291	0.3523	1.7389	2.0663
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	1.5883	0.1253	1.9208	0.5633	2.0780	2.4609
311300 Sugar and confectionery product manufacturing	1.8199	0.1515	2.7555	0.6208	2.5128	2.3814
311410 Frozen food manufacturing	1.5230	0.1193	2.2361	0.4988	1.9790	1.9146
311420 Fruit and vegetable canning, pickling, and drying	1.6635	0.1333	2.3197	0.5617	2.2114	2.2347
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	1.6739	0.1358	2.6756	0.5532	2.2526	1.9815
311615 Poultry processing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
31161A Animal (except poultry) slaughtering, rendering, and processing	1.4054	0.1074	2.1164	0.3079	1.7809	1.7254

(Continued)

Region Definition: DuPage, IL

\*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.

RIMS II Multipliers (2012/2017)

Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry DuPage County (Type II)

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	1.6410	0.1793	3.8866	0.6905	1.8113	1.5909
3118A0 Cookie, cracker, pasta, and tortilla manufacturing	1.6290	0.1335	2.4177	0.5924	2.2150	2.1353
311910 Snack food manufacturing	1.6181	0.1294	2.3507	0.5749	2.1470	2.0812
311920 Coffee and tea manufacturing	1.5880	0.1313	2.6481	0.5109	2.1781	1.8898
311930 Flavoring syrup and concentrate manufacturing	1.4617	0.1320	1.9106	0.6813	1.6796	2.0011
311940 Seasoning and dressing manufacturing	1.6254	0.1320	2.1119	0.5480	2.1894	2.4965
311990 All other food manufacturing	1.5669	0.1307	2.5468	0.5166	2.1676	2.0120
312110 Soft drink and ice manufacturing	1.6985	0.1350	2.5251	0.5647	2.2398	2.2026
312120 Breweries	1.4721	0.1140	2.4453	0.6462	1.8919	1.6542
312130 Wineries	1.6052	0.1356	3.8367	0.6700	2.2490	1.5232
312140 Distilleries	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
312200 Tobacco product manufacturing	1.2996	0.0965	1.4011	0.8727	1.6006	1.9831
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	1.5513	0.1588	3.2433	0.5818	1.8298	1.6617
314110 Carpet and rug mills	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
314120 Curtain and linen mills	1.5408	0.1504	3.2914	0.6323	1.8824	1.6294
314900 Other textile product mills	1.5822	0.1774	4.2928	0.6981	1.7474	1.6875
315000 Apparel manufacturing	1.4984	0.2588	7.5731	0.8786	1.3891	1.2389
316000 Leather and allied product manufacturing	1.6507	0.1689	3.6667	0.7481	1.8874	1.6344
322110 Pulp mills	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
322120 Paper mills	1.6113	0.1302	2.0221	0.6461	2.1593	2.5281
322130 Paperboard mills	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
322210 Paperboard container manufacturing	1.4940	0.1264	2.1435	0.5086	1.9072	2.1071
322220 Paper bag and coated and treated paper manufacturing	1.6502	0.1364	2.2619	0.6120	2.0737	2.2277
322230 Stationery product manufacturing	1.6572	0.1392	2.4651	0.5826	2.2429	2.2621
322291 Sanitary paper product manufacturing	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
322299 All other converted paper product manufacturing	1.6081	0.1410	2.4253	0.6479	2.2066	2.3510
323110 Printing	1.6726	0.1900	3.9621	0.8141	1.8360	1.8272
323120 Support activities for printing	1.5829	0.2275	4.4999	0.9523	1.5965	1.6466
324110 Petroleum refineries	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
324121 Asphalt paving mixture and block manufacturing	1.4460	0.1151	1.6795	0.4634	1.9099	2.3216
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	1.3679	0.1051	1.6448	0.5287	1.7442	1.9825
325110 Petrochemical manufacturing	1.2952	0.0936	1.2128	0.4884	1.5519	1.9957
325120 Industrial gas manufacturing	1.6078	0.1864	2.3233	0.7840	1.5872	2.1393

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Region Definition: DuPage, IL

\*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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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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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 DuPage County (Type II)

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	1.5695	0.1284	1.7793	0.7397	2.1298	3.0260
325190 Other basic organic chemical manufacturing	1.4323	0.1113	1.5356	0.4346	1.8467	2.5038
325211 Plastics material and resin manufacturing	1.5010	0.1161	1.5889	0.4432	1.9256	2.5194
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	1.5834	0.1453	2.0772	0.8511	2.0201	2.5548
325412 Pharmaceutical preparation manufacturing	1.4876	0.1364	1.7193	0.8729	1.8881	2.8291
325413 In-vitro diagnostic substance manufacturing	1.4599	0.1362	1.9795	0.8186	1.8766	2.3078
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	1.5664	0.1223	1.6637	0.6095	2.0285	2.6823
325510 Paint and coating manufacturing	1.5142	0.1196	1.7983	0.5941	1.9844	2.2806
325520 Adhesive manufacturing	1.5986	0.1296	1.9650	0.6344	2.1492	2.5688
325610 Soap and cleaning compound manufacturing	1.7395	0.1363	2.1572	0.7945	2.2610	2.6711
325620 Toilet preparation manufacturing	1.5686	0.1286	2.1716	0.8044	2.1326	2.3005
325910 Printing ink manufacturing	1.5987	0.1305	1.9563	0.5597	2.1647	2.4735
3259A0 All other chemical product and preparation manufacturing	1.6299	0.1322	2.0539	0.6436	2.1932	2.4447
326110 Plastics packaging materials and unlaminated film and sheet manufacturing	1.6105	0.1271	2.0932	0.5705	2.1084	2.3080
326120 Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing	1.4813	0.1248	2.1821	0.5910	1.7725	1.7970
326130 Laminated plastics plate, sheet (except packaging), and shape manufacturing	1.6157	0.1523	2.6794	0.6888	1.7738	1.7993
326140 Polystyrene foam product manufacturing	1.5495	0.1270	2.3889	0.5810	2.1070	2.1450
326150 Urethane and other foam product (except polystyrene) manufacturing	1.7329	0.1408	2.3529	0.6426	2.3359	2.4560
326160 Plastics bottle manufacturing	1.5534	0.1203	2.1368	0.5336	1.9955	1.9966
326190 Other plastics product manufacturing	1.6253	0.1362	2.4827	0.6516	2.1545	2.1452
326210 Tire manufacturing	1.5436	0.1239	2.0696	0.5660	2.0219	2.1243
326220 Rubber and plastics hoses and belting manufacturing	1.5472	0.1609	3.0152	0.6531	1.7063	1.6805
326290 Other rubber product manufacturing	1.6443	0.1346	2.3484	0.6353	2.2336	2.3019
420000 Wholesale trade	1.6296	0.1980	3.1078	0.9784	1.8787	2.3812
441000 Motor vehicle and parts dealers	1.5266	0.2634	5.3985	1.0343	1.3755	1.3995
445000 Food and beverage stores	1.6229	0.2599	8.8484	1.0027	1.4613	1.2456
452000 General merchandise stores	1.6481	0.2453	8.2840	1.0190	1.5814	1.2661
444000 Building material and garden equipment and supplies dealers	1.5049	0.2422	6.7804	1.0383	1.3980	1.2804
446000 Health and personal care stores	1.6603	0.3043	7.7455	1.0607	1.4190	1.3331

(Continued)

Region Definition: DuPage, IL

\*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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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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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.

RIMS II Multipliers (2012/2017)

Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry DuPage County (Type II)

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	1.7026	0.2555	8.2661	0.9974	1.5748	1.3218
448000 Clothing and clothing accessories stores	1.7665	0.2298	8.2474	0.9856	1.8176	1.3274
454000 Nonstore retailers	1.5099	0.1820	7.1319	0.9747	1.6555	1.2674
4B0000 All other retail	1.6850	0.2896	8.6147	1.0353	1.4641	1.2916
481000 Air transportation	1.4861	0.1422	2.2160	0.7212	2.0272	3.0167
482000 Rail transportation	1.6181	0.1741	2.4892	0.8601	2.0566	2.8060
483000 Water transportation	1.7782	0.1759	3.0376	0.7172	2.8858	3.7652
484000 Truck transportation	1.6903	0.2332	4.4419	0.8309	1.7805	1.9443
485A00 Transit and ground passenger transportation*	1.6173	0.2306	11.2318	0.7305	1.5874	1.1719
486000 Pipeline transportation	1.6187	0.3141	3.9762	1.0576	1.4154	1.9813
48A000 Scenic and sightseeing transportation and support activities for transportation	1.7806	0.2713	5.1589	0.9241	1.7371	1.8612
492000 Couriers and messengers	1.6044	0.2044	5.8349	0.8745	1.6817	1.4164
493000 Warehousing and storage	1.8583	0.2132	4.7382	0.9350	1.9221	1.8778
511110 Newspaper publishers	1.5100	0.2169	4.5890	0.9837	1.5215	1.4748
511120 Periodical publishers	1.5936	0.1864	3.0892	0.9518	1.8605	2.2151
511130 Book publishers	1.7422	0.1803	3.1316	0.9455	2.5562	3.0216
5111A0 Directory, mailing list, and other publishers	1.6022	0.1574	2.7891	0.9221	2.1630	2.5638
511200 Software publishers	1.4556	0.2230	2.9951	1.0192	1.4857	2.0401
512100 Motion picture and video industries	1.4033	0.1675	4.0520	0.8474	1.5362	1.4499
512200 Sound recording industries	1.2263	0.1019	1.5034	0.9829	1.4445	1.6922
515100 Radio and television broadcasting	1.2891	0.2369	2.9224	0.6847	1.2238	1.4581
515200 Cable and other subscription programming	1.4349	0.2186	2.6704	0.8066	1.3684	1.8743
517110 Wired telecommunications carriers	1.4798	0.1417	2.5474	0.8434	1.9182	2.2837
517210 Wireless telecommunications carriers (except satellite)	1.7824	0.1862	3.3351	0.9056	2.6400	3.3472
517A00 Satellite, telecommunications resellers, and all other telecommunications	1.8634	0.1978	3.3063	0.9016	2.2585	2.8245
518200 Data processing, hosting, and related services	1.7050	0.1932	3.2158	0.8940	2.3968	3.5844
519130 Internet publishing and broadcasting and web search portals	1.6803	0.1713	2.4066	0.8732	2.4291	5.7364
5191A0 News syndicates, libraries, archives, and all other information services	1.5892	0.2177	4.3023	1.0138	1.9881	2.5466
522A00 Nondepository credit intermediation and related activities	1.6108	0.2463	3.6406	1.0116	1.6154	2.1145
52A000 Monetary authorities and depository credit intermediation	1.4846	0.1779	2.8722	1.0081	1.7339	2.1302
523900 Other financial investment activities	1.8701	0.3134	5.8481	0.9845	1.7397	1.7899
523A00 Securities and commodity contracts intermediation and brokerage	1.7138	0.3114	6.2566	0.9625	1.5729	1.5731
524113 Direct life insurance carriers	1.4980	0.2110	3.1936	1.0128	1.5091	1.7317
5241XX Insurance carriers, except direct life insurance	1.8342	0.2079	3.0870	0.9436	2.0057	2.5104

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Region Definition: DuPage, IL

\*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.

RIMS II Multipliers (2012/2017)

Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry DuPage County (Type II)

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	2.2875	0.2579	4.0969	1.0695	2.4398	2.7409
525000 Funds, trusts, and other financial vehicles	2.4377	0.2984	6.3112	0.8921	4.2681	3.2003
531000 Real estate	1.4339	0.1372	3.7324	0.9998	1.7426	1.4833
532100 Automotive equipment rental and leasing	1.6970	0.2239	3.8974	0.9493	1.8079	2.0379
532400 Commercial and industrial machinery and equipment rental and leasing	1.7387	0.2344	3.2864	0.9694	1.8456	2.7935
532A00 General and consumer goods rental	1.7420	0.2913	5.4751	1.0003	1.5287	1.5600
533000 Lessors of nonfinancial intangible assets	1.5882	0.1638	2.6868	0.9820	2.0806	2.6275
541100 Legal services	1.6515	0.3784	4.4533	1.1069	1.3336	1.8527
541511 Custom computer programming services	1.6198	0.3712	5.2112	1.1153	1.4116	1.9156
541512 Computer systems design services	1.5504	0.3505	4.6941	1.0858	1.3333	1.6598
54151A Other computer related services, including facilities management	1.6785	0.3158	4.6519	1.0004	1.5441	1.9938
541200 Accounting, tax preparation, bookkeeping, and payroll services	1.5524	0.3649	6.4666	1.1090	1.2990	1.3927
541300 Architectural, engineering, and related services	1.7117	0.3404	5.1811	1.0375	1.5180	1.8733
541610 Management consulting services	1.7016	0.3585	6.2596	1.0672	1.4441	1.6052
5416A0 Environmental and other technical consulting services	1.6944	0.4112	7.5653	1.1020	1.3791	1.4641
541700 Scientific research and development services	1.7175	0.2980	3.9102	0.9725	1.6046	2.3459
541800 Advertising, public relations, and related services	1.5668	0.2244	3.8111	0.9783	1.5963	1.9240
541400 Specialized design services	1.5511	0.3726	8.6594	1.0996	1.2796	1.2575
541920 Photographic services	1.6986	0.3652	10.9733	1.0751	1.3705	1.2492
541940 Veterinary services	1.4810	0.3830	10.5709	0.9798	1.2126	1.1571
5419A0 All other miscellaneous professional, scientific, and technical services	1.5569	0.2620	4.0259	1.0105	1.4971	1.8415
550000 Management of companies and enterprises	1.6014	0.2619	3.3189	1.0029	1.5308	2.1396
561300 Employment services	1.5666	0.3680	10.7926	1.1225	1.3366	1.2311
561700 Services to buildings and dwellings	1.5961	0.2468	7.4742	0.9465	1.5395	1.3161
561100 Office administrative services	1.7553	0.3327	5.0141	1.0359	1.5644	1.9307
561200 Facilities support services	1.6579	0.2083	4.9304	0.9234	2.0538	1.8938
561400 Business support services	1.7144	0.3128	6.7153	1.0066	1.5602	1.5460
561500 Travel arrangement and reservation services	1.7228	0.2170	4.0961	0.9267	2.0205	2.1201
561600 Investigation and security services	1.6272	0.3260	9.6430	1.0451	1.4118	1.2582
561900 Other support services	1.7020	0.2517	5.3289	0.9669	1.7300	1.7613
562000 Waste management and remediation services	1.6282	0.1964	3.4449	0.8709	1.8289	2.0182
611100 Elementary and secondary schools	1.4985	0.3820	12.0158	1.0959	1.2181	1.1538
611A00 Junior colleges, colleges, universities, and professional schools	1.5450	0.3219	7.4747	1.0652	1.2855	1.2765
611B00 Other educational services	1.8200	0.3384	10.7477	1.0084	1.5082	1.2977

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Region Definition: DuPage, IL

\*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 DuPage County (Type II)

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	1.6880	0.3900	5.2311	1.0948	1.3662	1.7352
621200 Offices of dentists	1.6730	0.3456	6.8701	1.0650	1.3934	1.4297
621300 Offices of other health practitioners	1.5314	0.2941	6.5706	1.0144	1.3444	1.3368
621400 Outpatient care centers	1.6358	0.2018	4.2458	0.9666	1.8373	1.9749
621500 Medical and diagnostic laboratories	1.5842	0.3085	5.4601	1.0019	1.4093	1.4986
621600 Home health care services	1.6364	0.4050	12.3417	1.1092	1.3063	1.2116
621900 Other ambulatory health care services	1.7115	0.3308	7.4257	1.0096	1.4230	1.3690
622000 Hospitals	1.7329	0.3156	5.4961	1.0022	1.5511	1.7502
623A00 Nursing and community care facilities	1.6908	0.3319	9.6867	1.0193	1.4337	1.3102
623B00 Residential mental health, substance abuse, and other residential care facilities	1.6349	0.3328	9.8165	1.0327	1.3601	1.2531
624100 Individual and family services	1.7088	0.3415	13.1137	1.0103	1.4156	1.1986
624400 Child day care services	1.5951	0.3109	12.0980	1.0339	1.3225	1.1714
624A00 Community food, housing, and other relief services, including rehabilitation services	1.7905	0.2784	7.6772	0.8750	1.6230	1.4126
711100 Performing arts companies	1.5389	0.3089	18.2117	0.9872	1.3545	1.1175
711200 Spectator sports	1.5421	0.4004	6.2451	0.9933	1.2594	1.3961
711500 Independent artists, writers, and performers	1.3109	0.3053	12.2024	1.0688	1.1868	1.0999
711A00 Promoters of performing arts and sports and agents for public figures	1.5681	0.2712	13.0288	0.9666	1.4419	1.1958
712000 Museums, historical sites, zoos, and parks	1.6742	0.2473	6.4049	1.0148	1.5675	1.4402
713100 Amusement parks and arcades	1.4811	0.2466	7.9616	0.9589	1.3844	1.2135
713200 Gambling industries (except casino hotels)	1.5156	0.2174	4.2164	0.9585	1.5774	1.6129
713900 Other amusement and recreation industries	1.7156	0.2943	9.3056	0.9690	1.4871	1.2840
721000 Accommodation	1.6003	0.2390	5.7315	0.9593	1.5947	1.4540
722110 Full-service restaurants	1.6595	0.2890	9.9452	0.9713	1.4660	1.2265
722211 Limited-service restaurants	1.7417	0.2192	8.6112	0.8788	1.8120	1.2966
722A00 All other food and drinking places	1.6960	0.3483	12.0129	1.0442	1.4275	1.2071
811100 Automotive repair and maintenance	1.6635	0.3641	8.6806	0.9949	1.3172	1.2714
811200 Electronic and precision equipment repair and maintenance	1.5872	0.3857	6.5850	1.0192	1.2896	1.3882
811300 Commercial and industrial machinery and equipment repair and maintenance	1.6553	0.3681	6.1505	0.9962	1.3306	1.4475
811400 Personal and household goods repair and maintenance	1.3659	0.2723	7.2673	1.0325	1.2348	1.1858
812100 Personal care services	1.6910	0.4472	17.1242	1.1258	1.2789	1.1486
812200 Death care services	1.3760	0.3342	8.0396	0.8334	1.1827	1.1656
812300 Dry-cleaning and laundry services	1.6395	0.3611	10.8782	1.0342	1.3476	1.2337
812900 Other personal services	1.6774	0.3966	12.2013	1.0690	1.3172	1.2104
813100 Religious organizations	2.0646	0.2350	5.2658	0.9166	2.6964	2.4545

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Region Definition: DuPage, IL

\*Includes Government enterprises.

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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.

RIMS II Multipliers (2012/2017)

Table 1.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Detailed Industry DuPage County (Type II)

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	1.6839	0.3567	7.7717	1.0811	1.4176	1.4068
813B00 Civic, social, professional, and similar organizations	1.7451	0.3823	8.5520	1.0493	1.4089	1.3790
491000 Postal service	1.6937	0.3078	5.3328	0.9946	1.4953	1.6666
S00A00 Other government enterprises	1.8102	0.2269	3.6600	0.9096	1.9868	2.3858
H00000 Households	0.9139	0.1341	3.1993	0.5524	0.0000	0.0000

Region Definition: DuPage, IL

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