

**Table 2.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Industry Aggregation
Tulsa County, Oklahoma (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)
1. Farms	1.5306	0.2993	9.9082	0.6722	1.6465	1.4293
2. Forestry, fishing, and related activities	1.5970	0.4483	16.6518	0.9871	1.4656	1.2888
3. Oil and gas extraction	1.5325	0.2485	4.0041	1.0188	1.8796	2.7928
4. Mining, except oil and gas	1.7849	0.2721	4.9630	0.9974	2.3847	3.2181
5. Support activities for mining	1.6770	0.3723	6.8994	1.0644	1.7714	2.4040
6. Utilities*	1.8748	0.2918	4.9644	1.0725	2.6169	4.6738
7. Construction	1.8630	0.4497	9.8971	1.0159	1.7533	2.0544
8. Wood product manufacturing	1.6805	0.3083	7.7261	0.6702	2.0593	1.9806
9. Nonmetallic mineral product manufacturing	1.7836	0.3156	6.8536	0.8351	2.2387	2.4554
10. Primary metal manufacturing	1.7076	0.2625	5.6270	0.6319	2.3485	2.6021
11. Fabricated metal product manufacturing	1.7539	0.3270	6.6845	0.7971	2.0295	2.4565
12. Machinery manufacturing	1.7448	0.3023	5.9765	0.7768	2.1799	2.7920
13. Computer and electronic product manufacturing	1.6425	0.3330	6.3156	0.8933	1.8514	2.4280
14. Electrical equipment and appliance manufacturing	1.6517	0.2592	5.6987	0.7478	2.2192	2.3650
15. Motor vehicles, bodies and trailers, and parts manufacturing	1.6551	0.2492	5.7366	0.5928	2.3500	2.3415
16. Other transportation equipment manufacturing	1.6495	0.2823	5.1925	0.7946	2.1126	2.9335
17. Furniture and related product manufacturing	1.7044	0.3216	8.7010	0.7803	1.9818	1.8169
18. Miscellaneous manufacturing	1.8281	0.3751	9.9074	0.9342	2.0695	1.8703
19. Food and beverage and tobacco product manufacturing	1.6927	0.2695	6.3331	0.6462	2.3543	2.3149
20. Textile mills and textile product mills	1.7170	0.3354	10.6902	0.7074	1.9614	1.5961
21. Apparel and leather and allied product manufacturing	1.9445	0.3833	11.4214	0.9661	2.2611	1.8419
22. Paper manufacturing	1.7659	0.2784	5.4361	0.7376	2.4182	3.0641
23. Printing and related support activities	1.8791	0.3912	10.9719	0.9449	2.0586	1.8677
24. Petroleum and coal products manufacturing	1.6157	0.2225	3.3505	0.6375	2.0862	3.3784
25. Chemical manufacturing	1.7057	0.2605	4.8621	0.7582	2.3891	3.1439
26. Plastics and rubber products manufacturing	1.9276	0.3014	6.2767	0.7803	2.5262	2.8118
27. Wholesale trade	1.7683	0.4391	9.0425	1.1353	1.7466	2.1903
28. Motor vehicle and parts dealers	1.6882	0.5044	11.9197	1.1851	1.4697	1.6173
29. Food and beverage stores	1.8123	0.4891	16.0537	1.1502	1.6215	1.4760
30. General merchandise stores	1.8469	0.4642	17.5213	1.1466	1.7904	1.4358
31. Other retail	1.8329	0.4685	17.3938	1.1363	1.7062	1.4438
32. Air transportation	1.8373	0.2975	5.6797	0.8885	2.4751	3.6741
33. Rail transportation	1.7357	0.3034	5.5016	0.9210	2.1080	3.0661
34. Water transportation	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
35. Truck transportation	2.0924	0.4284	9.1872	1.0322	2.2291	2.5933
36. Transit and ground passenger transportation*	2.0986	0.5209	21.3654	1.0599	1.8733	1.3786
37. Pipeline transportation	1.8495	0.3777	6.1328	1.0090	2.0442	3.9300
38. Other transportation and support activities*	1.9304	0.4719	11.0260	1.1217	1.8637	2.0463

(Continued)

Region Definition: Tulsa, OK

*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 2015 data, the output delivered to final demand should be in 2015 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 2007 Benchmark Input-Output Table for the Nation and 2015 regional data. Industry List B identifies the industries corresponding to the entries.

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

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INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
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39. Warehousing and storage	1.9216	0.4871	13.9885	1.1489	1.7703	1.7319
40. Publishing industries, except internet (includes software)	1.8350	0.3904	9.3939	1.1088	2.0597	2.2325
41. Motion picture and sound recording industries	1.5822	0.2668	9.5914	0.8855	2.0552	1.6359
42. Broadcasting and telecommunications	1.6871	0.3042	6.0274	0.9814	2.0056	2.7182
43. Data processing, internet publishing, and other information services	1.7386	0.3801	8.5475	0.9751	1.8897	2.2691
44. Federal Reserve banks, credit intermediation, and related activities	1.7673	0.3826	8.7853	1.0113	1.9683	2.3213
45. Securities, commodity contracts, and investments	2.0505	0.5520	14.6339	1.0153	1.8839	1.8790
46. Insurance carriers and related activities	1.7821	0.3721	8.2819	1.0131	1.9399	2.2224
47. Funds, trusts, and other financial vehicles	1.8760	0.3467	11.4586	0.6951	2.8588	2.0730
48. Real estate	1.6077	0.2666	10.6378	1.0658	2.1465	1.5854
49. Rental and leasing services and lessors of intangible assets	1.6925	0.3594	7.7001	1.0272	1.8248	2.2431
50. Professional, scientific, and technical services	1.9184	0.6084	13.4049	1.1752	1.6045	1.8834
51. Management of companies and enterprises	1.8914	0.5660	10.7290	1.1313	1.6279	2.1780
52. Administrative and support services	1.8909	0.5945	18.8480	1.1977	1.5839	1.4664
53. Waste management and remediation services	1.9136	0.4044	8.8141	0.9858	2.1148	2.5631
54. Educational services	1.9916	0.6378	23.2833	1.2021	1.5638	1.3922
55. Ambulatory health care services	1.9538	0.6213	12.9558	1.1937	1.5931	1.9506
56. Hospitals	1.9717	0.5782	12.4498	1.1300	1.6979	2.0297
57. Nursing and residential care facilities	1.9407	0.6025	20.0596	1.1867	1.5633	1.4453
58. Social assistance	1.9673	0.6144	25.2453	1.1752	1.5720	1.3379
59. Performing arts, spectator sports, museums, and related activities	1.8767	0.5155	18.9354	1.1190	1.6903	1.4662
60. Amusements, gambling, and recreation industries	1.8250	0.3819	17.0054	1.0450	2.0638	1.4408
61. Accommodation	1.7806	0.4387	15.4963	1.0896	1.7467	1.4689
62. Food services and drinking places	1.8867	0.4985	20.0588	1.0417	1.7010	1.3705
63. Other services*	1.9430	0.5085	14.3419	1.1052	1.7731	1.6947
64. Households	1.1550	0.2800	8.1366	0.6876	0.0000	0.0000

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