

DEED's Quarterly Census of Employment & Wages (QCEW) Tool Tutorial

Step 1: Go to <https://mn.gov/deed/data/data-tools/qcew/>

Step 2: Click on **Use the data tool** "Use the data tool" (<https://apps.deed.state.mn.us/lmi/qcew/AreaSel.aspx>)

The screenshot shows the QCEW tool interface. At the top, there are navigation arrows for Step 1 (Select Area), Step 2 (Time Period), Step 3 (Ownership), Step 4 (Industry), and Step 5 (View Results). Below this is a table of QCEW RESULTS with columns for Geography, Industry, Ownership, Year, and quarterly data (Q1-Q4) plus Annual. A green arrow labeled 'Step 3' points to the 'Ownership' column.

Step 3: Click on "Start Over".

Step 4: Select Area, Click "Next".

This screenshot shows the 'SELECT AREA' dropdown menu. It lists options such as U.S., Minnesota, Minnesota Counties, Minnesota Cities > 20,000 Employees, Minnesota Cities < 20,000 Employees, Minnesota Parts of Cities, Minnesota Economic Development Regions, and Minnesota Planning Areas. A green arrow labeled 'Step 5' points to the 'Minnesota Counties' option.

Step 5: Select the geographic areas you're interested in studying, Click "Next".
To select multiple areas, hold down the "Ctrl" key on your keyboard.

Step 6: Select a "Time Period", Click "Next".

This screenshot shows the 'SELECT TIME PERIOD' dropdown menu with years 2017, 2016, 2015, 2014, and 2013. A green arrow labeled 'Step 6' points to the year 2017.

Step 7: Select an "Ownership", Click "Next".

This screenshot shows the 'SELECT OWNERSHIP' form with checkboxes for Total of All Ownerships, Private, Total of All Government, Federal Government, State Government, and Local Government. A green arrow labeled 'Step 7' points to the 'Private' checkbox.

Step 8: Select a set of NAICS Codes or by super sector or sector.

This screenshot shows the 'SELECT INDUSTRY' form. It includes a text input for industry codes, a 'Next' button, and radio buttons for 'Select all 11 super sectors' and 'Select all 20 sectors'. Below is a tree view of NAICS codes with checkboxes. A green arrow labeled 'Step 8' points to the '23-Construction' category.

You can drill down to the 6-digit NAICS Code level by clicking on the [+] buttons next to each higher level NAICS Code, then checking the checkboxes for each industry you're interested in studying, Click "Next".

Step 9: Or "Select all 11 super sectors" or "Select all 20 sectors" to conduct high-level analysis of major sectors such as Construction, Manufacturing, Retail Trade, Transportation & Warehousing, Educational Services, Health Care & Social Assistance, Accommodation & Food Services, Public Administration, and more.

Step 10: The “QCEW Results” display employment data for the geography, time period, ownership, and industries you selected in the tool.

The screenshot shows the QCEW Results tool interface. It includes navigation buttons for 'Change' and 'Start Over'. A diagram indicates that the 1st tab is 'Employment', the 2nd is 'Establishments', the 3rd is 'Wages', and the 4th is 'Average Weekly Wages'. Below this is a table with columns for Geography, Industry, Ownership, Year, and quarterly data (Q1-Q4) plus Annual totals.

Geography	Industry	Ownership	Year	Q1	Q2	Q3	Q4	Annual
Washington County	Total, All Industries (000000)	Total, All Ownerships	2016	79,250	82,863	82,761	82,678	81,888
Washington County	Construction (23)	Total, All Ownerships	2016	2,947	3,663	3,771	3,545	3,482
Washington County	Construction of Buildings (236)	Total, All Ownerships	2016	588	656	694	662	650
Washington County	Residential Building Construction (2361)	Total, All Ownerships	2016	321	350	342	342	339
Washington County	Residential Building Construction (23611)	Total, All Ownerships	2016	321	350	342	342	339
Washington County	New Single-Family Housing Construction (except For-Sale Builders) (236115)	Total, All Ownerships	2016	89	94	93	93	92
Washington County	Residential Remodelers (236118)	Total, All Ownerships	2016	204	223	214	208	212
Washington County	Total, All Industries (000000)	Total, All Ownerships	2015	75,997	79,748	80,200	80,609	79,139
Washington County	Construction (23)	Total, All Ownerships	2015	3,021	3,424	3,718	3,371	3,384
Washington County	Construction of Buildings (236)	Total, All Ownerships	2015	540	561	650	599	588

The 1st tab displays “Employment” which is a count of jobs, *not people*.

The 2nd tab displays “Establishments” which is the number of firms employing workers.

The 3rd tab displays “Wages” which is the total industry payroll paid to employees.

The 4th tab displays “Average Weekly Wages” which is the total payroll divided by the number of jobs.

Step 11 (indicated by a green arrow pointing to the 'Download Data' button)

Geography	Industry	Ownership	Year	Q1	Q2	Q3	Q4	Annual
Washington County	Total, All Industries (000000)	Total, All Ownerships	2016	\$889,338,304	\$900,373,563	\$937,463,807	\$967,153,070	\$3,694,328,744
Washington County	Construction (23)	Total, All Ownerships	2016	\$43,981,979	\$51,618,530	\$64,267,220	\$58,009,809	\$217,877,538
Washington County	Construction of Buildings (236)	Total, All Ownerships	2016	\$8,128,953	\$8,654,280	\$9,731,295	\$11,900,740	\$38,415,268
Washington County	Residential Building Construction (2361)	Total, All Ownerships	2016	\$3,763,816	\$4,111,251	\$4,243,668	\$4,742,411	\$16,861,146
Washington County	Residential Building Construction (23611)	Total, All Ownerships	2016	\$3,763,816	\$4,111,251	\$4,243,668	\$4,742,411	\$16,861,146
Washington County	New Single-Family Housing Construction (except For-Sale Builders) (236115)	Total, All Ownerships	2016	\$1,056,248	\$1,083,440	\$1,101,120	\$1,336,084	\$4,576,892
Washington County	Residential Remodelers (236118)	Total, All Ownerships	2016	\$2,181,714	\$2,456,364	\$2,525,766	\$2,556,005	\$9,719,849
Washington County	Total, All Industries (000000)	Total, All Ownerships	2015	\$862,672,738	\$838,389,604	\$844,526,988	\$932,794,195	\$3,478,383,525
Washington County	Construction (23)	Total, All Ownerships	2015	\$42,350,222	\$47,169,015	\$52,227,328	\$55,478,146	\$197,224,711
Washington County	Construction of Buildings (236)	Total, All Ownerships	2015	\$7,312,833	\$7,593,810	\$8,706,678	\$11,053,579	\$34,666,900
Washington County	Residential Building Construction (2361)	Total, All Ownerships	2015	\$2,883,742	\$3,171,100	\$3,511,542	\$4,703,168	\$14,269,552
Washington County	Residential Building Construction (23611)	Total, All Ownerships	2015	\$2,883,742	\$3,171,100	\$3,511,542	\$4,703,168	\$14,269,552

The other tabs provide “Business Employment Dynamics”, which includes “Gross Employment Gains”, “Gross Employment Losses”, “Job Gains for Expansions”, “Job Gains from Openings”, “Job Losses from Contractions”, “Job Losses from Closings”, “Establishment Births”, “Job Gains from Births”, “Establishment Deaths”, and “Job Losses from Deaths”.

** The QCEW data are linked across quarters to give a longitudinal history for each establishment that allows for tracking employment changes over time at each establishment.*

Step 11: Click “Download Data” to sort the data in Excel.

The screenshot shows an Excel spreadsheet with the following columns: period, naicstitle, indcode, own areaname, ownertitle, ind, avgemp1, avgemp2, avgemp3, avgemp4, avg_estab, avg_estab, avg_estab, avg_estab, totwage1, totwage2, totwage3. The data is sorted by year (2016 and 2015) and industry.

period	naicstitle	indcode	own areaname	ownertitle	ind	avgemp1	avgemp2	avgemp3	avgemp4	avg_estab	avg_estab	avg_estab	avg_estab	totwage1	totwage2	totwage3	
2016	Total, All Industries	0	0	Washington	Total, All	0	79250	82863	82761	82678	5193	5256	5304	5325	8.89E+08	9E+08	9.37E+08
2016	Construction	23	0	Washington	Total, All	2	2947	3663	3771	3545	511	517	523	523	43981979	51618530	64267220
2016	Construction of Buildings	236	0	Washington	Total, All	3	588	656	694	662	123	126	128	130	8128953	8654280	9731295
2016	Residential Building Construction	2361	0	Washington	Total, All	4	321	350	342	342	99	102	103	105	3763816	4111251	4243668
2016	Residential Building Construction	23611	0	Washington	Total, All	5	321	350	342	342	99	102	103	105	3763816	4111251	4243668
2016	New Single-Family Housing Construction	236115	0	Washington	Total, All	6	89	94	93	93	24	27	28	30	1056248	1083440	1101120
2016	Residential Remodelers	236118	0	Washington	Total, All	6	204	223	214	208	70	70	70	70	2181714	2456364	2556005
2016	Nonresidential Building Construction	2362	0	Washington	Total, All	4	266	306	351	320	24	24	25	25	4365137	4543029	546005
2015	Total, All Industries	0	0	Washington	Total, All	0	75997	79748	80200	80609	5285	5305	5175	5201	8.63E+08	8.38E+08	8.45E+08
2015	Construction	23	0	Washington	Total, All	2	3021	3424	3718	3371	533	534	507	510	42350222	47169015	52227328
2015	Construction of Buildings	236	0	Washington	Total, All	3	540	561	650	599	124	118	111	113	7312833	7593810	8706678
2015	Residential Building Construction	2361	0	Washington	Total, All	4	258	274	312	298	99	94	89	92	2883742	3171100	3511542
2015	Residential Building Construction	23611	0	Washington	Total, All	5	258	274	312	298	99	94	89	92	2883742	3171100	3511542
2015	New Single-Family Housing Construction	236115	0	Washington	Total, All	6	68	71	73	73	27	23	19	21	769999	839795	9325766
2015	Residential Remodelers	236118	0	Washington	Total, All	6	175	189	222	208	67	66	65	66	1870555	2095921	2301120
2015	Nonresidential Building Construction	2362	0	Washington	Total, All	4	282	286	338	301	25	24	22	21	4429091	4422710	5152698

For additional help, contact your **DEED Regional Analyst**: <http://mn.gov/deed/data/regional-lmi/index.jsp>