

# Cornell Law School

Jack G. Clarke Program on the Law and Regulation  
Of Financial Institutions and Markets

**FOR IMMEDIATE RELEASE**

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## THE U.S. PRIVATE SECTOR JOB QUALITY INDEX (JQI)<sup>®</sup> August 2020

Following the release of the [Employment Situation Report](#) for August 2020 by the U.S. Bureau of Labor Statistics (BLS), the U.S. Private Sector Job Quality Index (JQI)<sup>®</sup> has been revised to a level of 83.26, down by 0.42% from its revised level one month earlier and reflecting a **higher** proportion - relative to the prior month - of U.S. production and non-supervisory (P&NS) jobs paying less than the mean weekly income of all P&NS jobs (“Low Quality Jobs”), relative to those jobs paying above such mean. *The JQI remains heavily impacted by the continued unprecedented loss of approximately 10 million production and non-supervisory jobs since the beginning of the U.S. impact of the COVID19 global pandemic (net of additions in May through August), with regard to which the following additional special factors should be noted:*

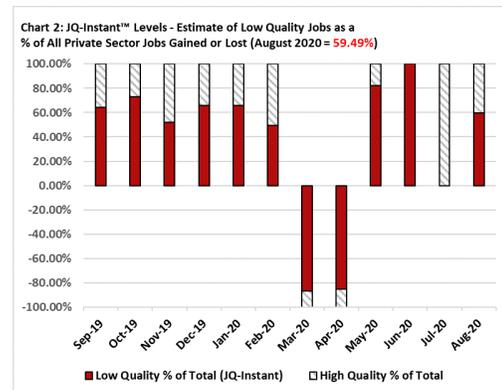
- (i) *the BLS Employment Situation Report for August, while reflecting further deceleration of private sector payrolls seen from May through July, evidences the re-employment of millions of workers in Low Quality jobs who were laid off during the peak crisis months – this will continue, if sustained, to drive the JQI back to its prior lower levels;*
- (ii) *indications, evidenced in our [survey released on August 4, 2020](#) in cooperation with RIWI Corp., are that workers “re-payrolled,” via the Payroll Protection Program (PPP) established pursuant to the Coronavirus Aid, Relief, and Economic Security Act (CARES Act), are again being laid off as the vast majority of PPP funds were disbursed by employers from May through July, leaving in doubt the capacity of many small and medium sized firms to maintain payrolls at levels reflected in the August BLS report;*
- (iii) *the payroll gains, as reflected in JQ-Instant<sup>™</sup> reading, below, were concentrated in sectors offering Low Quality Jobs, following the elimination of millions of such jobs during the lockdown months; and*
- (iv) *the JQI may rise or fall for a period of time to the extent that such large numbers of Low Quality Jobs have been substantially eliminated or restored (temporarily or otherwise), as offset by the significantly higher benchmark mean weekly income used in computing the index and resulting from the elimination of large numbers of Low Quality Jobs.*

The mean weekly wage income of all P&NS jobs as of the current reading (which reflects the level as of July 2020) declined to \$833.84, a change of -0.40% from its revised level the month prior. This reflects the large number of previously-eliminated low-wage/low hours jobs added back to payrolls through July. **The JQ-Instant<sup>™</sup>** preliminary read of the **1.03 million gain** in all private sector, non-farm payrolls for August 2020 shows that approximately **59.49%** of the gains in private sector jobs were in industry sectors offering P&NS jobs with an average weekly income below the mean weekly income of all P&NS jobs (i.e. “Low Quality Jobs”). *Note that, as of June 2020, the calculations used to render the JQ-Instant<sup>™</sup> have been slightly remapped to improve links between employment sectors used in the JQ-Instant<sup>™</sup> and those used in the calculation of the JQI.*

Chart 1: JQI levels July 2018 to July 2020



Chart 2: JQ-Instant<sup>™</sup> for 12 Months ending August 2020



This news release presents data from the most recent **JQI** and **JQI-Instant** readings calculated through the month immediately prior to the month of this release date. The **JQI** assesses job quality in the United States by measuring desirable higher-wage/higher-hour jobs versus lower-wage/lower-hour jobs. The **JQI** offers a near-real time analytical tool to policymakers, researchers and financial market participants with relevance to a variety of trends in the economy at large. While economists and international organizations have developed other, complementary conceptions of job quality such as those addressing the emotional satisfaction employees derive from their jobs, the **JQI** interprets “job quality” as meaning the weekly dollar-income a job generates for an employee.

The **JQI** analyzes a representative sample of the economy using production and non-supervisory job (P&NS) data from 180 different industry groups spanning across all 20 super-sectors into which the BLS groups establishments. The principal data utilized is contained in the Current Employment Survey (CES, also often referred to as the establishment survey) P&NS data on average weekly hours (AWH), average hourly wage (AHW) and total employment for each given industry group (seasonally adjusted, in all cases). The **JQI** is updated on a monthly basis contemporaneously with the release of new CES data from the BLS.

The **JQI** establishes a Quality Job Benchmark for each given month. The benchmark value is indicated by the average weighted weekly wage within the set of 180 industry groups, and weighted for the number of jobs in each group. Once the benchmark is established for that given month, each industry group is sorted into low or high quality by comparing each group’s specific weekly wage to the quality benchmark. If an industry’s weekly wage for the month is below (above) the benchmark, then it is considered low (high)-quality job.

Once the data are sorted, the total number of high-quality jobs is divided by the total number of low-quality jobs for that given month. This ratio represents the preliminary **JQI** value. An index reading of 100 would indicate an even distribution. Readings below 100 indicate a greater concentration in/prevalence of lower-quality (those below the mean) positions, and a reading above 100 indicates greater concentration/prevalence of higher-quality positions. It should be noted that the total number of “jobs” is represented by the total number of positions, as opposed to workers, for that given industry group.

The Preliminary **JQI** measure is then further adjusted in the case of certain industries that (i) support a significantly large number of jobs, relative to other industry groups that are used in computing the **JQI**, and (ii) generate weekly wages at or near the quality benchmark and contain a sufficient number of jobs such that minor movements in weekly wages would have the effect of moving them from one side of the quality benchmark to the other from month to month, thereby resulting in unintended statistical fluctuations that can be remedied by further sectoral subdivision.

To address such larger groups of employees, the **JQI** parameterizes a flip category as an industry that contains more than a million employees and has an average weekly wage that typically falls within +/- 10% of the Job Quality Benchmark for a time span of ten or more years. Flip category industries are separated into subcategories below which further sub-category analysis

would render little-to-no material difference in internal composition of high income to lower income jobs, with the outcome of the flip category adjustments being the elimination of large and distortive groups suddenly moving from one side of the Job Quality Benchmark mean to the other during the life of the index (although the sub-categories may exhibit such moves). Industries that satisfy this parameter for the inception date of the **JQI** to date are listed below:

Flip Category	P&NS Employees (December 2018)
Education	3,197,100
Offices of Physicians	2,202,000
Depository Credit Intermediation	1,277,600
Food Manufacturing	1,276,300

In the aggregate, these four categories comprised just over 7.5% of all private sector P&NS jobs in the U.S., as of December 2018.

The above sectors are subdivided using data provided by the annual Occupational Employment Statistics (OES) survey, which is released by the BLS annually in late March or early April. The OES provides a more detailed breakdown of the wages for each occupation in each industry group. To maintain consistency, OES occupations in the foregoing flip categories that involve supervisory roles are not included. Information from the OES is applied to assess how many jobs within each flip industry are high- or low-quality occupations from the standpoint of weekly income and thereby split the larger industry category into subcategories. For this analysis, the OES data is filtered to only include major occupations within each industry; usually, this includes up to 24 different occupations.

Weekly wages derived from the OES are then compared to the weekly wage benchmarks used in the preliminary **JQI** index. The occupations are then assigned a quality of high or low depending on whether they are above or below the benchmark.

Following the foregoing adjustments, the total number of high-quality jobs are divided by the total number of jobs for each category. This results in the percentage of high-quality jobs (and, correspondingly, low-quality jobs) for each of the flip categories. The relative percentage of high-quality/low-quality jobs is now used to normalize and adjust each flip category, by multiplying the percentage of high-quality/low-quality jobs by the CES employment count so that each flip category industry is split into two groups, which are then independently used in the overall **JQI** calculation.

Because the OES data is released annually, the intra-year percentage divisions of the flip category industry groups are adjusted annually, as well. Such adjustments are calculated to commence with **JQI** data released beginning in May of each year, through to the following April.

Finally, it should be noted that certain industry subgroup data lags data for larger categories by one month because of BLS data release schedules. Furthermore, while the raw **JQI** is otherwise statistically consistent from month to month, even the adjustments heretofore mentioned do

not remove all distracting statistical noise in movements of the index from month to month. The **JQI** is more useful to other analysis and forecasting when observed on the basis of a three-month moving average, and the headline **JQI** index is reported as such.

For a full description of the calculation of the **JQI**, please see: [the November 2019 white paper introducing the U.S. Private Sector Job Quality Index.](#)

The **JQ-Instant** is a snapshot index that results from the subdivision of the change in the CES calculation of all private sector jobs (not just P&NS jobs) for the subject month into high-quality and low-quality jobs, utilizing the **JQI** sectoral divisions for P&NS jobs. Thus, if a marginal job is created or lost in a sector that the **JQI** classifies as high-quality, all private sector jobs created or lost in the subject month are considered high-quality for the purposes of the **JQ-Instant** calculation – the reverse being the case for low-quality jobs. **JQ-Instant** readings are revised in subsequent months commensurate with revisions to the CES data by the BLS.

The **JQ-Instant** calculation utilizes 123 sectoral categories, in contrast to the 180 used in the **JQI** itself, because of a one month delay in the BLS reporting of more granular data. Because **JQ-Instant** inherently assumes that all industry categories and subcategories that are on one side or another of the Quality Job Benchmark for purposes of the **JQI** (which analyzes only P&NS jobs) are also on the same side when considering all jobs (i.e. P&NS as well as managerial/supervisory jobs), there may occasionally be certain industry categories that may flip from one quality designation to the other when all jobs are considered, making the **JQ-Instant** reading somewhat inaccurate. In general, however, industries offering high or low quality P&NS jobs (82.5% of all jobs) are generally in the same category when all jobs are considered, making the **JQ-Instant** reading a useful tool for a snapshot analysis of the job quality of the subject month's level of total private sector jobs gained or lost.

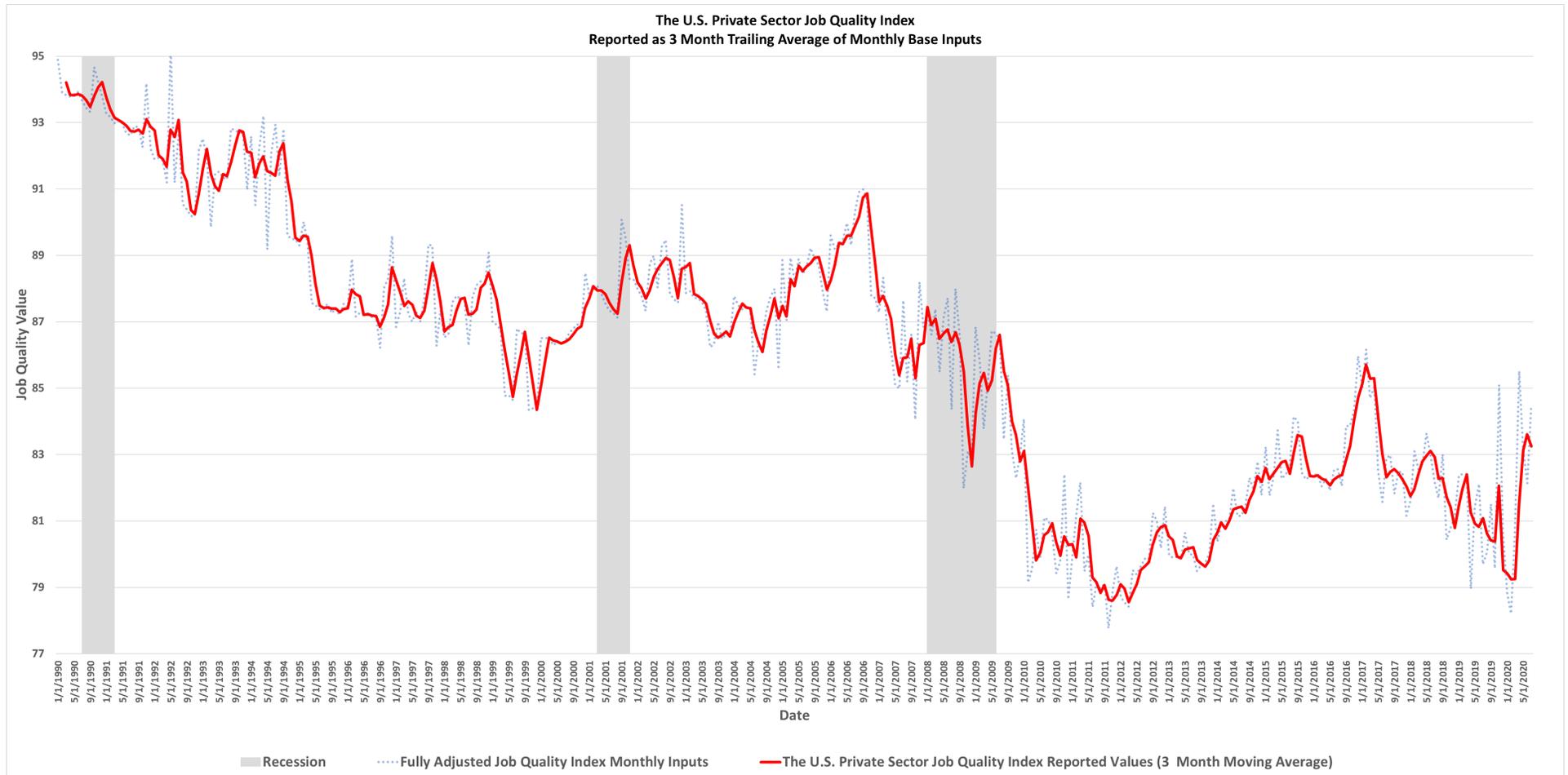
Finally, the **JQ-Instant** reading has implications for the likely direction of the **JQI** itself in future months. As the **JQI** is reported as a three-month rolling average of actual monthly readings, significant imbalances (readings varying from an even distribution between high and low quality jobs) in the **JQ-Instant** results would suggest future **JQI** readings moving in the direction of the dominant side of such distribution.

**JQ-Instant** is reported on a scale of +100 to -100, reflecting the relative proportion of low quality jobs. Positive readings indicate overall net month over month gains in all U.S. private sector jobs. Negative readings indicate overall net month over month losses in all U.S. private sector jobs. A reading of +100 would indicate that all jobs gained in the subject month are low quality jobs. A reading of -100 would indicate that all jobs lost in the subject month are low quality jobs. A **JQ-Instant** reading of +50 would indicate that 50% of the overall jobs gained in the subject month are low quality jobs, and a reading of -50 would indicate that 50% of the overall jobs lost in the subject month are low quality jobs, and so forth.

For an explanatory video on the **JQI**, please see: [www.vimeo.com/jqi](http://www.vimeo.com/jqi)

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**Chart 3: The U.S. Job Quality Index from Inception to July 2020**  
(Reported as 3-month moving average, monthly readings in blue, recessions shown in grey)



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Industry Category	Total Number of Jobs (000)	Mean Weekly Income				Change in \$ from June 2020 - July 2020	% Change from June 2020 - July 2020	Change in \$ from July 2019 - July 2020	% Change from July 2019 - July 2020
		July 2019	May 2020	June 2020	July 2020				
		July 20	July 2019	May 2020	June 2020				
Total Private Production and Non-supervisory Jobs.....	95,796.00	\$788.59	\$851.48	\$840.82	\$837.42	(\$3.40)	(0.40%)	\$48.83	6.19%
<b>Total High Quality Production and Non-supervisory Jobs.....</b>	<b>42,891.06</b>	<b>\$1,114.30</b>	<b>\$1,120.05</b>	<b>\$1,127.59</b>	<b>\$1,140.82</b>	<b>\$13.23</b>	<b>1.17%</b>	<b>\$26.52</b>	<b>2.38%</b>
<b>Goods Producing</b>									
Agriculture, construction & mining machinery mfg.....	10,701.30	\$1,085.17	\$1,071.01	\$1,078.64	\$1,096.72	\$18.08	1.68%	\$11.56	1.07%
Building equipment contractors.....	132.00	\$944.74	\$936.57	\$933.44	\$949.57	\$16.12	1.73%	\$4.83	0.51%
Building finishing contractors.....	1,644.40	\$1,181.05	\$1,200.76	\$1,221.86	\$1,223.02	\$1.15	0.09%	\$41.97	3.55%
Building foundation and exterior contractors.....	593.70	\$981.85	\$972.39	\$983.46	\$980.06	(\$3.40)	(0.35%)	(\$1.79)	(0.18%)
Chemical mfg.....	721.70	\$990.38	\$1,018.13	\$1,031.74	\$1,027.00	(\$4.74)	(0.46%)	\$36.62	3.70%
Commercial & service industry machinery mfg.....	530.80	\$1,061.33	\$1,050.57	\$1,065.93	\$1,055.03	(\$10.91)	(1.02%)	(\$6.30)	(0.59%)
Computer & electronic mfg.....	51.20	\$1,167.90	\$1,146.14	\$1,164.15	\$1,154.54	(\$9.61)	(0.83%)	(\$13.36)	(1.14%)
Engine, turbine & power transmission equipment mfg.....	657.30	\$1,017.77	\$993.82	\$1,016.52	\$1,017.60	\$1.08	0.11%	(\$0.16)	(0.02%)
Fabricated metal mfg.....	48.20	\$1,153.24	\$1,102.56	\$1,145.11	\$1,148.93	\$3.82	0.33%	(\$4.31)	(0.37%)
HVAC & commercial refrigeration machinery mfg.....	1,003.60	\$888.52	\$878.78	\$886.21	\$896.48	\$10.27	1.16%	\$7.96	0.90%
Highway, street, & bridge construction.....	81.10	\$840.09	-	-	\$964.71	\$128.76	15.40%	\$124.63	14.83%
Industrial machinery mfg.....	279.00	\$1,281.00	\$1,308.89	\$1,321.49	\$1,296.43	(\$25.06)	(1.90%)	\$15.43	1.20%
Logging.....	57.90	\$1,090.04	\$1,049.70	\$1,108.34	\$1,099.48	(\$8.86)	(0.80%)	\$9.44	0.87%
Medical equipment & supplies mfg.....	43.70	\$991.07	-	-	\$858.70	\$66.47	8.39%	(\$132.36)	(13.36%)
Metalworking machinery mfg.....	204.00	\$824.86	-	-	\$857.59	\$31.09	3.76%	\$32.74	3.97%
Mining, except oil and gas.....	108.50	\$1,021.77	\$976.14	\$964.38	\$952.09	(\$12.30)	(1.28%)	(\$69.68)	(6.82%)
Misc. nondurable mfg.....	131.50	\$1,326.81	\$1,327.58	\$1,327.17	\$1,300.07	(\$27.10)	(2.04%)	(\$26.74)	(2.02%)
Nonmetallic mineral mfg.....	167.90	-	-	\$849.85	\$850.15	\$0.29	0.03%	\$69.30	8.88%
Nonresidential building construction.....	299.70	\$970.05	\$984.27	\$975.78	\$986.48	\$10.70	1.10%	\$16.43	1.69%
Oil and gas extraction.....	488.70	\$1,242.45	\$1,249.52	\$1,263.49	\$1,274.29	\$10.80	0.85%	\$31.84	2.56%
Other general purpose machinery mfg.....	87.60	\$1,676.12	\$1,588.15	\$1,627.69	\$1,629.09	\$1.40	0.09%	(\$47.03)	(2.81%)
Other specialty construction trade contractors.....	156.90	\$988.77	\$979.08	\$956.79	\$978.16	\$21.37	2.23%	(\$10.61)	(1.07%)
Petroleum & coal product mfg.....	524.30	\$1,088.74	\$1,077.52	\$1,081.76	\$1,075.85	(\$5.90)	(0.55%)	(\$12.89)	(1.18%)
Plywood & engineered wood mfg.....	68.60	\$2,099.19	\$1,673.33	\$1,660.60	\$1,697.31	\$36.71	2.21%	(\$401.88)	(19.14%)
Primary metal mfg.....	61.30	\$842.96	-	\$869.62	\$912.68	\$48.06	4.95%	\$69.72	8.27%
Residential building construction.....	257.70	\$1,006.63	\$951.13	\$973.54	\$1,002.14	\$28.60	2.94%	(\$4.49)	(0.45%)
Sawmill & wood preservation mfg.....	535.00	\$939.52	\$958.49	\$962.95	\$969.25	\$6.30	0.65%	\$29.73	3.16%
Support activities for mining.....	71.20	\$837.56	\$887.33	\$892.45	\$873.64	(\$18.80)	(2.11%)	\$36.09	4.31%
Transportation equipment mfg.....	172.40	\$1,434.22	\$1,371.68	\$1,368.51	\$1,370.46	\$1.95	0.14%	(\$63.76)	(4.45%)
Utility system construction.....	1,112.70	\$1,177.98	\$1,070.12	\$1,047.58	\$1,185.78	\$138.20	13.19%	\$7.80	0.66%
Utility system construction.....	408.70	\$1,336.00	\$1,350.09	\$1,345.34	\$1,357.94	\$12.60	0.94%	\$21.94	1.64%
<b>Services</b>									
Accounting and bookkeeping services.....	32,189.76	\$1,143.43	\$1,169.09	\$1,176.54	\$1,184.91	\$8.38	0.71%	\$41.48	3.63%
Activities related to credit intermediation.....	740.90	\$924.77	\$968.14	\$947.38	\$955.26	\$7.88	0.83%	\$30.49	3.30%
Activities related to real estate.....	249.80	\$825.19	\$892.18	\$896.10	\$908.63	\$12.52	1.40%	\$83.44	10.11%
Advertising & related services.....	524.60	\$834.02	\$852.93	\$863.43	\$868.00	\$4.57	0.53%	\$33.98	4.07%
Air transportation.....	317.90	\$1,073.61	\$1,108.94	\$1,113.38	\$1,103.71	(\$9.67)	(0.87%)	\$30.10	2.80%
Alcoholic beverage wholesalers.....	328.50	\$1,038.46	\$1,024.34	\$1,047.84	\$1,074.55	\$26.71	2.55%	\$36.08	3.47%
Apparel & piece goods wholesalers.....	162.10	\$916.42	\$935.95	\$950.79	\$955.94	\$5.15	0.54%	\$39.53	4.31%
Architectural and engineering services.....	100.80	\$853.02	-	-	\$834.68	\$13.38	1.63%	(\$18.35)	(2.15%)
Automobile dealers.....	1,118.60	\$1,359.16	\$1,368.68	\$1,377.63	\$1,383.14	\$5.50	0.40%	\$23.97	1.76%
Broadcasting excluding Internet.....	1,004.80	\$861.63	\$876.15	\$902.47	\$933.25	\$30.78	3.41%	\$71.62	8.31%
Chemical merchant wholesalers.....	187.40	\$1,092.67	\$961.77	\$990.93	\$983.10	(\$7.82)	(0.79%)	(\$109.57)	(10.03%)
Commercial equipment wholesalers.....	109.90	\$1,256.57	\$1,180.14	\$1,196.98	\$1,164.78	(\$32.20)	(2.69%)	(\$91.79)	(7.31%)
Commercial machinery repair & maintenance services.....	524.80	\$1,201.29	\$1,227.58	\$1,246.28	\$1,245.70	(\$0.59)	(0.05%)	\$44.40	3.70%
Computer systems design & related services.....	170.10	\$1,044.58	\$1,006.61	\$1,032.19	\$1,039.68	\$7.50	0.73%	(\$4.90)	(0.47%)
Data processing, hosting & related services.....	1,743.90	\$1,659.26	\$1,704.96	\$1,689.80	\$1,697.46	\$7.66	0.45%	\$38.20	2.30%
Depository credit intermediation.....	280.20	\$1,390.14	\$1,451.35	\$1,453.21	\$1,456.19	\$2.98	0.21%	\$66.05	4.75%
Druggist goods wholesalers.....	1,290.00	\$870.75	\$936.28	\$928.72	\$936.47	\$7.75	0.83%	\$65.72	7.55%
Electric goods wholesalers.....	186.70	\$1,107.41	\$1,100.80	\$1,108.24	\$1,095.77	(\$12.47)	(1.13%)	(\$11.65)	(1.05%)
Electronic equipment repair & maintenance services.....	269.70	\$1,112.84	\$1,148.74	\$1,125.47	\$1,142.42	\$16.95	1.51%	\$29.59	2.66%
Farm product raw material wholesalers.....	76.50	\$942.94	\$1,066.43	\$1,058.15	\$1,091.03	\$32.88	3.11%	\$148.09	15.71%
Furniture wholesalers.....	57.40	\$846.60	-	\$839.27	\$852.42	\$13.15	1.57%	\$5.82	0.69%
General freight trucking.....	164.40	\$882.31	\$896.48	\$888.86	\$925.71	\$36.85	4.15%	\$43.40	4.92%
Grocery & related wholesalers.....	85.30	\$973.44	\$896.43	\$880.67	\$867.16	(\$29.28)	(3.27%)	(\$106.28)	(10.92%)
Hardware & plumbing wholesalers.....	882.30	\$964.05	\$997.96	\$1,015.24	\$1,029.16	\$13.92	1.37%	\$65.11	6.75%
Hospitals.....	597.50	\$850.25	-	\$859.83	\$854.74	(\$5.08)	(0.59%)	\$4.49	0.53%
Independent artists, writers, and performers.....	223.90	\$1,020.24	\$994.31	\$997.77	\$986.44	(\$11.33)	(1.14%)	(\$33.81)	(3.31%)
Insurance agencies, brokerages, and related services.....	4,685.10	\$1,184.31	\$1,169.49	\$1,194.48	\$1,194.96	\$0.48	0.04%	\$10.65	0.90%
Insurance carriers.....	22.30	\$1,010.52	\$1,104.78	\$1,109.51	\$1,188.94	\$79.43	7.16%	\$178.43	17.66%
Legal services.....	954.90	\$1,017.79	\$1,057.89	\$1,048.28	\$1,052.23	\$3.95	0.38%	\$34.44	3.38%
Lumber & construction supplies wholesalers.....	1,284.80	\$1,212.04	\$1,267.23	\$1,272.64	\$1,275.14	\$2.50	0.20%	\$63.10	5.21%
Machinery and equipment rental and leasing.....	832.40	\$1,315.78	\$1,316.17	\$1,284.21	\$1,305.55	\$21.34	1.66%	(\$10.22)	(0.78%)
Management & technical consulting services.....	202.30	\$963.96	\$1,019.13	\$996.71	\$1,009.67	\$12.96	1.30%	\$45.71	4.74%
Management of companies & enterprises.....	119.30	\$1,253.40	\$1,127.90	\$1,118.00	\$1,113.55	(\$4.45)	(0.40%)	(\$139.84)	(11.16%)
Medical and diagnostic laboratories.....	537.90	\$1,114.64	\$1,080.36	\$1,095.72	\$1,097.60	\$1.88	0.17%	(\$17.04)	(1.53%)
Merchant wholesalers, misc. durable goods.....	1,133.60	\$1,282.35	\$1,329.83	\$1,340.89	\$1,345.89	\$5.00	0.37%	\$63.54	4.96%
Metal & mineral wholesalers.....	1,520.60	\$1,128.33	\$1,187.41	\$1,189.81	\$1,191.38	\$1.56	0.13%	\$63.05	5.59%
Motion picture & sound recording industries.....	237.40	\$963.28	\$918.51	\$959.69	\$992.60	\$32.91	3.43%	\$29.32	3.04%
Motor vehicles & parts wholesalers.....	205.20	\$799.87	-	-	\$834.99	\$14.22	1.73%	\$35.12	4.39%
Natural gas distribution.....	101.20	\$985.09	\$903.63	\$933.39	\$942.47	\$9.09	0.97%	(\$42.62)	(4.33%)
Nondepository credit intermediation.....	150.40	-	-	\$885.51	\$910.41	\$24.90	2.81%	\$165.94	22.29%
Office administrative services.....	263.20	\$818.74	-	-	\$838.74	\$20.98	2.57%	\$20.00	2.44%
Offices of physicians.....	87.50	\$1,632.77	\$1,765.38	\$1,808.64	\$1,847.48	\$38.84	2.15%	\$214.71	13.15%
Other financial investment activities, including funds and trusts.....	448.20	\$1,087.36	\$1,182.48	\$1,148.72	\$1,193.89	\$45.17	3.93%	\$106.52	9.80%
Other information services.....	381.80	\$1,024.82	\$1,069.56	\$1,082.38	\$1,104.95	\$22.57	2.09%	\$80.13	7.82%
Outpatient care centers.....	2,171.50	\$1,109.45	\$1,109.89	\$1,123.47	\$1,149.76	\$26.29	2.34%	\$40.31	3.63%
Paper & paper products wholesalers.....	379.60	\$1,524.24	\$1,573.24	\$1,579.66	\$1,569.25	(\$10.41)	(0.66%)	\$45.01	2.95%
Petroleum wholesalers.....	287.80	\$1,227.74	\$1,322.97	\$1,312.28	\$1,303.01	(\$9.27)	(0.71%)	\$75.26	6.13%
	116.40	-	-	-	\$858.20	\$55.04	6.85%	\$145.36	20.39%
	812.50	\$904.49	\$940.80	\$944.37	\$959.65	\$15.28	1.62%	\$55.16	6.10%
	99.10	\$974.70	\$864.47	\$855.66	\$834.75	(\$20.91)	(2.44%)	(\$139.95)	(14.36%)
	81.00	\$923.31	\$907.12	\$914.30	\$928.87	\$14.57	1.59%	\$5.56	0.60%

Table 1A: Industry Categories Above the Quality Job Benchmark (Mean Weekly Wage)		Mean Weekly Income				Change in \$ from June 2020 - July 2020	% Change from June 2020 - July 2020	Change in \$ from July 2019 - July 2020	% Change from July 2019 - July 2020
Industry Category	Total Number of Jobs (000)	Mean Weekly Income				Change in \$ from June 2020 - July 2020	% Change from June 2020 - July 2020	Change in \$ from July 2019 - July 2020	% Change from July 2019 - July 2020
		July 2019	May 2020	June 2020	July 2020				
Pipeline transportation.....	40.46	\$1,901.47	\$1,904.62	\$1,904.94	\$1,905.26	\$0.31	0.02%	\$3.78	0.20%
Power generation and supply.....	301.60	\$1,601.49	\$1,613.22	\$1,657.84	\$1,669.67	\$11.83	0.71%	\$68.18	4.26%
Publishing Excluding Internet.....	569.70	\$1,317.44	\$1,429.51	\$1,452.99	\$1,446.98	(\$6.01)	(0.41%)	\$129.54	9.83%
Scientific research & development services.....	562.10	\$1,571.19	\$1,681.48	\$1,681.86	\$1,696.50	\$14.64	0.87%	\$125.32	7.98%
Securities, commodity contracts, brokerage & exchanges.....	349.20	\$1,512.31	\$1,569.42	\$1,570.96	\$1,602.03	\$31.07	1.98%	\$89.72	5.93%
Specialized design services.....	99.50	\$1,063.00	\$1,071.78	\$1,077.58	\$1,055.14	(\$22.44)	(2.08%)	(\$7.86)	(0.74%)
Specialized freight trucking.....	374.10	\$975.47	\$940.84	\$951.22	\$965.99	\$14.77	1.55%	(\$9.47)	(0.97%)
Spectator sports.....	63.50	-	\$1,055.28	\$913.87	\$944.93	\$31.06	3.40%	\$284.79	43.14%
Support activities for other transportation, including rail.....	61.30	\$890.83	\$932.97	\$940.80	\$942.44	\$1.64	0.17%	\$51.61	5.79%
Support activities for road transportation.....	81.60	-	\$909.43	\$909.43	\$863.16	(\$46.28)	(5.09%)	\$126.69	17.20%
Support activities for water transportation.....	77.60	\$1,224.49	\$1,165.51	\$1,113.29	\$1,073.90	(\$39.39)	(3.54%)	(\$150.59)	(12.30%)
Telecommunications services.....	561.30	\$1,199.91	\$1,224.15	\$1,232.50	\$1,232.71	\$0.22	0.02%	\$32.80	2.73%
Travel arrangement & reservation services.....	116.00	-	-	-	\$837.90	\$13.11	1.59%	\$92.05	12.34%
Water, sewage and other systems.....	38.10	\$939.12	\$1,001.82	\$1,023.22	\$1,037.40	\$14.18	1.39%	\$98.28	10.47%
Wholesale electronic agents & brokers.....	379.70	\$1,195.61	\$1,339.67	\$1,344.41	\$1,333.58	(\$10.82)	(0.81%)	\$137.98	11.54%

Industry Category	Total Number of Jobs (000)	Mean Weekly Income				Change in \$ from June 2020 - July 2020	% Change from June 2020 - July 2020	Change in \$ from July 2019 - July 2020	% Change from July 2019 - July 2020
		July 2019	May 2020	June 2020	July 2020				
		Jul-20							
Total Private Production and Non-supervisory Jobs.....	95,796.00	\$788.59	\$851.48	\$840.82	\$837.42	(\$3.40)	(0.40%)	\$48.83	6.19%
<b>Total Low Quality Production and Non-supervisory Jobs.....</b>	<b>51,778.70</b>	<b>\$636.37</b>	<b>\$658.17</b>	<b>\$660.07</b>	<b>\$661.44</b>	<b>\$1.38</b>	<b>0.21%</b>	<b>\$25.07</b>	<b>3.94%</b>
<b>Goods Producing</b>	<b>3,081.90</b>	<b>\$750.78</b>	<b>\$757.16</b>	<b>\$762.06</b>	<b>\$772.87</b>	<b>\$10.81</b>	<b>1.42%</b>	<b>\$22.08</b>	<b>2.94%</b>
Apparel mfg.....	60.40	\$580.59	\$632.60	\$619.04	\$629.89	\$10.85	1.75%	\$49.29	8.49%
Electrical & appliance mfg.....	244.30	-	\$833.30	\$808.24	\$818.44	\$10.21	1.26%	(\$20.32)	(2.42%)
Food mfg.....	1,263.50	\$749.02	\$781.03	\$784.94	\$793.73	\$8.78	1.12%	\$44.71	5.97%
Furniture mfg.....	252.50	\$722.85	\$767.34	\$767.20	\$766.80	(\$0.40)	(0.05%)	\$43.95	6.08%
Other misc. mfg.....	171.40	\$730.19	\$717.05	\$748.67	\$730.31	(\$18.35)	(2.45%)	\$0.12	0.02%
Other wood product mfg.....	172.80	\$716.18	\$731.64	\$729.63	\$744.60	\$14.97	2.05%	\$28.42	3.97%
Plastic product mfg.....	432.30	-	\$760.88	\$772.90	\$779.17	\$6.27	0.81%	(\$8.07)	(1.02%)
Printing & related mfg.....	247.40	\$734.91	\$724.17	\$733.27	\$750.23	\$16.96	2.31%	\$15.32	2.08%
Rubber product mfg.....	96.20	-	\$624.64	\$675.35	\$779.24	\$103.89	15.38%	(\$86.04)	(9.94%)
Textile mill mfg.....	70.70	\$717.91	\$721.19	\$710.94	\$753.36	\$42.42	5.97%	\$35.45	4.94%
Textile product mill mfg.....	70.40	\$566.93	\$605.61	\$612.15	\$609.49	(\$2.66)	(0.43%)	\$42.56	7.51%
<b>Services</b>	<b>48,696.80</b>	<b>\$521.95</b>	<b>\$559.18</b>	<b>\$558.07</b>	<b>\$550.02</b>	<b>(\$8.05)</b>	<b>(1.44%)</b>	<b>\$28.06</b>	<b>5.38%</b>
Agents, promoters & managers of arts, sports, & similar events.....	66.60	\$539.75	\$736.37	\$692.60	\$665.39	(\$27.21)	(3.93%)	\$125.64	23.28%
Amusements, gambling, and recreation industries.....	997.80	\$317.55	\$389.88	\$323.87	\$326.42	\$2.56	0.79%	\$8.88	2.80%
Auto parts, accessories, & tire stores.....	452.40	\$617.95	\$657.03	\$661.25	\$668.91	\$7.67	1.16%	\$50.97	8.25%
Auto repair & maintenance services.....	719.30	\$704.46	\$721.66	\$722.59	\$721.95	(\$0.64)	(0.09%)	\$17.50	2.48%
Beer, wine, and liquor stores.....	123.90	\$377.44	\$454.89	\$431.86	\$432.92	\$1.05	0.24%	\$55.48	14.70%
Book stores & news dealers.....	28.30	\$265.43	\$415.53	\$408.90	\$383.78	(\$25.12)	(6.14%)	\$118.35	44.59%
Building material and supplies dealers.....	997.80	\$578.92	\$700.35	\$704.90	\$709.20	\$4.30	0.61%	\$130.28	22.50%
Business support services.....	642.00	\$636.98	\$643.99	\$643.62	\$643.97	\$0.35	0.05%	\$6.99	1.10%
Cafeterias, grill buffets, and buffets.....	31.30	\$311.11	\$356.87	\$383.10	\$353.24	(\$29.86)	(7.80%)	\$42.13	13.54%
Child day care services.....	712.30	\$416.84	\$463.24	\$482.79	\$490.86	\$8.07	1.67%	\$74.03	17.76%
Clothing stores.....	530.30	\$305.72	\$406.97	\$368.88	\$365.24	(\$3.64)	(0.99%)	\$59.52	19.47%
Community care facilities for the elderly.....	822.30	\$492.49	\$537.52	\$526.54	\$516.45	(\$10.09)	(1.92%)	\$23.96	4.86%
Courier and messenger services.....	811.90	\$662.46	\$700.88	\$688.19	\$698.30	\$10.11	1.47%	\$35.83	5.41%
Death care services.....	104.70	\$536.90	\$572.43	\$601.34	\$599.37	(\$1.97)	(0.33%)	\$62.47	11.64%
Drinking places, alcoholic beverages.....	176.30	\$351.56	\$335.10	\$337.55	\$321.86	(\$15.69)	(4.65%)	(\$29.71)	(8.45%)
Drycleaning and laundry services.....	193.50	\$475.76	\$514.45	\$497.87	\$491.61	(\$6.27)	(1.26%)	\$15.85	3.33%
Education.....	2,966.00	\$684.08	\$694.86	\$705.11	\$714.80	\$9.69	1.37%	\$30.72	4.49%
Emergency and other relief services.....	147.20	\$592.53	\$660.03	\$667.93	\$656.94	(\$10.99)	(1.65%)	\$64.41	10.87%
Employment services.....	2,796.40	\$660.03	\$766.09	\$734.98	\$717.38	(\$17.60)	(2.39%)	\$57.34	8.69%
Facilities support services.....	138.40	\$754.05	\$713.77	\$696.03	\$704.28	\$8.25	1.19%	(\$49.76)	(6.60%)
Florists.....	38.80	\$349.25	\$359.41	\$371.37	\$365.45	(\$5.91)	(1.59%)	\$16.21	4.64%
Full-service restaurants.....	3,633.80	\$368.02	\$349.00	\$361.05	\$354.38	(\$6.66)	(1.85%)	(\$13.63)	(3.70%)
Furniture stores.....	157.30	\$679.43	\$684.32	\$748.31	\$788.26	\$39.95	5.34%	\$108.83	16.02%
Gasoline stations.....	754.80	\$374.51	\$405.84	\$393.88	\$394.24	\$0.36	0.09%	\$19.73	5.27%
General merchandise stores.....	2,926.30	\$443.67	\$514.49	\$535.78	\$451.49	(\$84.29)	(15.73%)	\$7.82	1.76%
General rental centers.....	24.40	\$666.24	\$726.41	\$721.60	\$783.70	\$62.10	8.61%	\$117.46	17.63%
Grocery stores.....	2,444.30	\$397.15	\$416.44	\$421.03	\$404.67	(\$16.36)	(3.89%)	\$7.52	1.89%
Home furnishings stores.....	162.80	\$469.46	\$626.86	\$583.60	\$528.80	(\$54.80)	(9.39%)	\$59.35	12.64%
Home health care services.....	1,383.80	\$524.36	\$576.30	\$575.70	\$577.13	\$1.43	0.25%	\$52.76	10.06%
Household goods repair & maintenance services.....	56.50	\$727.80	\$751.13	\$739.18	\$731.28	(\$7.90)	(1.07%)	\$3.48	0.48%
Individual and family services.....	2,211.60	\$441.89	\$495.46	\$490.10	\$483.63	(\$6.47)	(1.32%)	\$41.74	9.44%
Investigation & security services.....	814.40	\$590.27	\$618.80	\$630.09	\$640.56	\$10.47	1.66%	\$50.29	8.52%
Jewelry, luggage, & leather goods stores.....	66.40	\$586.87	\$642.11	\$640.96	\$612.77	(\$28.19)	(4.40%)	\$25.90	4.41%
Lawn and garden equipment and supplies stores.....	124.90	\$539.84	\$628.67	\$589.41	\$585.37	(\$4.04)	(0.69%)	\$45.53	8.43%
Lessors of real estate.....	453.20	\$747.25	\$792.81	\$790.94	\$797.98	\$7.04	0.89%	\$50.73	6.79%
Limited-service restaurants.....	3,637.90	\$281.45	\$302.29	\$297.91	\$296.94	(\$0.97)	(0.32%)	\$15.49	5.51%
Membership associations & organizations.....	2,294.30	\$708.33	\$774.59	\$766.90	\$765.70	(\$1.20)	(0.16%)	\$57.37	8.10%
Misc. nondurable goods wholesalers.....	257.60	-	\$798.78	\$806.54	\$813.41	\$6.88	0.85%	\$21.91	2.77%
Museums, historical sites, and similar institutions.....	88.70	\$483.37	\$588.36	\$544.84	\$552.16	\$7.32	1.34%	\$68.78	14.23%
Nonstore retailers.....	445.60	\$724.15	\$797.41	\$791.28	\$782.26	(\$9.02)	(1.14%)	\$58.11	8.02%
Nursing care facilities.....	1,322.30	\$589.36	\$631.44	\$626.90	\$624.02	(\$2.87)	(0.46%)	\$34.67	5.88%
Office supplies, stationery, & gift stores.....	142.60	\$366.50	\$360.33	\$359.94	\$382.46	\$22.52	6.26%	\$15.96	4.35%
Offices of dentists.....	761.30	\$698.49	\$666.87	\$759.83	\$741.42	(\$18.41)	(2.42%)	\$42.93	6.15%
Offices of other health practitioners.....	708.20	\$671.00	\$689.45	\$705.85	\$711.66	\$5.81	0.82%	\$40.67	6.06%
Offices of real estate agents and brokers.....	257.80	\$703.05	\$757.68	\$751.22	\$750.40	(\$0.82)	(0.11%)	\$47.35	6.74%
Other ambulatory health care services.....	263.40	\$779.22	\$808.18	\$797.66	\$806.74	\$9.07	1.14%	\$27.52	3.53%
Other miscellaneous store retailers.....	267.20	\$450.85	\$456.67	\$465.45	\$491.47	\$26.02	5.59%	\$40.62	9.01%
Other personal services.....	220.10	\$449.88	\$504.84	\$481.97	\$476.38	(\$5.59)	(1.16%)	\$26.50	5.89%
Other professional and technical services.....	604.10	\$778.10	\$827.10	\$798.53	\$790.34	(\$8.19)	(1.03%)	\$12.24	1.57%
Other residential care facilities.....	134.00	\$578.32	\$624.95	\$605.12	\$609.72	\$4.61	0.76%	\$31.40	5.43%
Other support services.....	242.60	\$705.00	\$728.38	\$732.13	\$741.48	\$9.35	1.28%	\$36.47	5.17%
Performing arts companies.....	42.00	\$638.69	\$780.32	\$717.62	\$745.87	\$28.25	3.94%	\$107.19	16.78%
Personal care services.....	500.90	\$435.50	\$414.82	\$407.55	\$387.77	(\$19.78)	(4.85%)	(\$47.73)	(10.96%)
RV parks and recreational camps.....	45.30	\$399.49	\$468.86	\$448.54	\$432.90	(\$15.64)	(3.49%)	\$33.41	8.36%
Residential mental health facilities.....	533.00	\$563.29	\$626.23	\$611.07	\$618.08	\$7.01	1.15%	\$54.80	9.73%
Retail electronics & appliance.....	328.60	-	\$831.64	\$817.37	\$812.93	(\$4.43)	(0.54%)	\$2.69	0.33%
Retail health & personal care.....	743.90	\$578.68	\$612.56	\$599.43	\$596.79	(\$2.65)	(0.44%)	\$18.10	3.13%
Services to buildings & dwellings.....	1,720.20	\$520.66	\$569.52	\$569.17	\$567.77	(\$1.40)	(0.25%)	\$47.11	9.05%
Shoe stores.....	100.30	\$404.00	\$496.34	\$479.11	\$438.16	(\$40.95)	(8.55%)	\$34.15	8.45%
Snack and nonalcoholic beverage bars.....	571.70	\$292.99	\$313.03	\$310.76	\$309.62	(\$1.14)	(0.37%)	\$16.63	5.68%
Special food services.....	374.00	\$411.14	\$447.99	\$463.34	\$461.39	(\$1.95)	(0.42%)	\$50.25	12.22%
Specialty food stores.....	170.40	\$385.24	\$417.86	\$413.32	\$410.32	(\$3.00)	(0.73%)	\$25.08	6.51%
Sporting goods & musical instrument stores.....	328.30	\$362.08	\$436.91	\$411.96	\$419.22	\$7.27	1.76%	\$57.14	15.78%
Support activities for air transportation.....	166.60	\$702.61	\$720.53	\$775.78	\$779.68	\$3.90	0.50%	\$77.06	10.97%
Transit and ground passenger transportation.....	297.20	\$615.84	\$634.42	\$643.42	\$652.10	\$8.67	1.35%	\$36.26	5.89%
Traveler accommodation.....	1,003.10	\$461.54	\$378.76	\$391.35	\$404.03	\$12.68	3.24%	(\$57.51)	(12.46%)
Used merchandise stores.....	122.30	\$362.65	\$379.12	\$383.09	\$402.68	\$19.59	5.11%	\$40.03	11.04%
Vocational rehabilitation services.....	233.80	\$447.30	\$520.30	\$515.20	\$510.25	(\$4.95)	(0.96%)	\$62.95	14.07%

Table 1B: Industry Categories Below the Quality Job Benchmark (Mean Weekly Wage) (Continued)		Total Number of Jobs (000) Jul-20	Mean Weekly Income				Change in \$ from June 2020 - July 2020	% Change from June 2020 - July 2020	Change in \$ from July 2019 - July 2020	% Change from July 2019 - July 2020
Industry Category	July 2019		May 2020	June 2020	July 2020					
Warehousing and storage.....	1,055.50	\$740.80	\$762.00	\$755.31	\$706.31	(\$48.99)	(6.49%)	(\$34.49)	(4.66%)	

Table 2A: Index of CPI-adjusted Weekly Wages for Industry Categories Above the Quality Job Benchmark (Mean Weekly Wage) -Year 2000 = 100								
Industry Category	Total Number of Jobs (000)	Index of CPI-adjusted Weekly Income (1990 = 100)				% Change from Inception - July 2020	%Change from July 2019 - July 2020	%Change from June 2020 - July 2020
		Inception Date: January 1990	July 2019	June 2020	July 2020			
Total Private Production and Non-supervisory Jobs.....	95,796.00	100.00	127.27	141.49	139.33	39.33%	9.47%	(1.53%)
<b>Total High Quality Production and Non-supervisory Jobs.....</b>	<b>42,891.06</b>	<b>99.12</b>	<b>137.39</b>	<b>139.80</b>	<b>141.41</b>	<b>42.67%</b>	<b>2.92%</b>	<b>1.15%</b>
<b>Goods Producing</b>	<b>10,701.30</b>	<b>100.00</b>	<b>111.59</b>	<b>109.89</b>	<b>112.09</b>	<b>12.09%</b>	<b>0.44%</b>	<b>2.00%</b>
Agricultura, construction & mining machinery mfg.....	132.00	100.00	96.52	93.27	95.46	(4.54%)	(1.10%)	2.34%
Building equipment contractors.....	1,644.40	100.00	103.03	109.19	108.21	8.21%	5.02%	(0.90%)
Building finishing contractors.....	593.70	100.00	104.89	104.35	102.45	2.45%	(2.33%)	(1.82%)
Building foundation and exterior contractors.....	721.70	100.00	103.01	110.64	108.48	8.48%	5.31%	(1.95%)
Chemical mfg.....	530.80	100.00	95.17	95.13	91.94	(8.06%)	(3.40%)	(3.36%)
Commercial & service industry machinery mfg.....	512.20	100.00	123.21	121.61	118.58	18.58%	(3.76%)	(2.49%)
Computer & electronic mfg.....	657.30	100.00	130.20	129.03	128.09	28.09%	(1.62%)	(0.73%)
Engine, turbine & power transmission equipment mfg.....	48.20	100.00	105.80	103.46	102.96	2.96%	(2.68%)	(0.48%)
Fabricated metal mfg.....	1,003.60	100.00	104.73	103.32	104.51	4.51%	(0.22%)	1.15%
HVAC & commercial refrigeration machinery mfg.....	81.10	100.00	109.96	-	139.16	39.16%	26.56%	28.81%
Highway, street, & bridge construction.....	279.00	100.00	119.49	125.57	120.08	20.08%	0.49%	(4.37%)
Industrial machinery mfg.....	57.90	100.00	127.99	130.95	127.91	27.91%	(0.07%)	(2.32%)
Logging.....	43.70	100.00	132.83	-	99.56	(0.44%)	(25.05%)	17.03%
Medical equipment & supplies mfg.....	204.00	100.00	129.35	-	136.42	36.42%	5.46%	5.81%
Metalworking machinery mfg.....	108.50	100.00	90.35	78.73	75.25	(24.75%)	(16.72%)	(4.43%)
Mining, except oil and gas.....	131.50	100.00	97.47	96.64	91.41	(8.59%)	(6.22%)	(5.42%)
Misc. nondurable mfg.....	167.90	100.00	-	118.89	117.79	17.79%	15.63%	(0.93%)
Nonmetallic mineral mfg.....	299.70	100.00	112.23	112.60	113.77	13.77%	1.37%	1.04%
Nonresidential building construction.....	488.70	100.00	132.63	135.70	136.55	36.55%	2.95%	0.62%
Oil and gas extraction.....	87.60	100.00	191.11	181.79	180.85	80.85%	(5.37%)	(0.52%)
Other general purpose machinery mfg.....	156.90	100.00	114.19	106.35	109.81	9.81%	(3.83%)	3.26%
Other specialty construction trade contractors.....	524.30	100.00	111.63	109.38	107.04	7.04%	(4.11%)	(2.14%)
Petroleum & coal product mfg.....	68.60	100.00	181.88	121.92	125.68	25.68%	(30.90%)	3.08%
Plywood & engineered wood mfg.....	61.30	100.00	133.66	140.19	150.99	50.99%	12.97%	7.70%
Primary metal mfg.....	257.70	100.00	87.86	80.78	84.96	(15.04%)	(3.31%)	5.17%
Residential building construction.....	535.00	100.00	116.68	121.22	121.50	21.50%	4.13%	0.23%
Sawmill & wood preservation mfg.....	71.20	100.00	102.93	115.40	109.64	9.64%	6.52%	(4.99%)
Support activities for mining.....	172.40	100.00	170.52	157.20	156.39	56.39%	(8.29%)	(0.52%)
Transportation equipment mfg.....	1,112.70	100.00	101.84	78.52	101.12	1.12%	(0.71%)	28.78%
Utility system construction.....	408.70	100.00	131.61	132.35	133.36	33.36%	1.33%	0.76%
<b>Services</b>	<b>32,189.76</b>	<b>98.23</b>	<b>163.20</b>	<b>169.71</b>	<b>170.73</b>	<b>73.80%</b>	<b>4.62%</b>	<b>0.60%</b>
Accounting and bookkeeping services.....	740.90	100.00	132.93	137.76	138.57	38.57%	4.24%	0.59%
Activities related to credit intermediation.....	249.80	100.00	101.17	117.65	119.53	19.53%	18.15%	1.60%
Activities related to real estate.....	524.60	100.00	153.15	161.22	161.43	61.43%	5.41%	0.13%
Advertising & related services.....	317.90	100.00	165.03	173.99	170.42	70.42%	3.26%	(2.06%)
Air transportation.....	328.50	100.00	143.37	144.69	149.79	49.79%	4.48%	3.52%
Alcoholic beverage wholesalers.....	162.10	100.00	131.32	139.15	139.27	39.27%	6.05%	0.09%
Apparel & piece goods wholesalers.....	100.80	100.00	124.33	-	117.42	17.42%	(5.56%)	2.04%
Architectural and engineering services.....	1,118.60	100.00	143.56	146.00	145.80	45.80%	1.56%	(0.13%)
Automobile dealers.....	1,004.80	100.00	111.17	120.33	126.72	26.72%	13.99%	5.31%
Broadcasting excluding Internet.....	187.40	100.00	187.63	159.89	156.64	56.64%	(16.52%)	(2.03%)
Chemical merchant wholesalers.....	109.90	100.00	128.60	116.83	109.77	9.77%	(14.64%)	(6.05%)
Commercial equipment wholesalers.....	524.80	100.00	124.78	132.35	131.06	31.06%	5.03%	(0.98%)
Commercial machinery repair & maintenance services.....	170.10	100.00	130.42	126.79	127.27	27.27%	(2.42%)	0.38%
Computer systems design & related services.....	1,743.90	100.00	142.09	145.68	145.61	45.61%	2.48%	(0.04%)
Data processing, hosting & related services.....	280.20	100.00	234.50	248.83	248.37	148.37%	5.91%	(0.19%)
Depository credit intermediation.....	1,290.00	100.00	181.77	199.71	201.04	101.04%	10.60%	0.67%
Druggist goods wholesalers.....	186.70	100.00	151.58	150.89	146.86	46.86%	(3.12%)	(2.67%)
Electric goods wholesalers.....	269.70	100.00	112.66	114.20	116.27	16.27%	3.20%	1.81%
Electronic equipment repair & maintenance services.....	76.50	100.00	117.40	143.18	149.61	49.61%	27.44%	4.49%
Farm product raw material wholesalers.....	57.40	100.00	176.84	173.55	176.68	76.68%	(0.09%)	1.80%
Freight transportation arrangement.....	164.40	100.00	112.96	113.67	121.41	21.41%	7.48%	6.81%
Furniture wholesalers.....	85.30	100.00	136.79	117.11	108.78	8.78%	(20.48%)	(7.11%)
General freight trucking.....	882.30	100.00	88.62	97.80	99.35	(0.65%)	12.11%	1.59%
Grocery & related wholesalers.....	597.50	100.00	126.12	127.80	125.26	25.26%	(0.69%)	(1.99%)
Hardware & plumbing wholesalers.....	223.90	100.00	155.98	149.44	145.40	45.40%	(6.78%)	(2.70%)
Hospitals.....	4,685.10	100.00	200.92	202.63	201.57	101.57%	0.32%	(0.52%)
Independent artists, writers, and performers.....	22.30	100.00	180.34	207.00	227.92	127.92%	26.38%	10.11%
Insurance agencies, brokerages, and related services.....	954.90	100.00	165.00	172.08	171.93	71.93%	4.20%	(0.09%)
Insurance carriers.....	1,284.80	100.00	190.34	204.02	203.43	103.43%	6.88%	(0.29%)
Legal services.....	832.40	100.00	144.92	138.14	140.94	40.94%	(2.74%)	2.03%
Lumber & construction supplies wholesalers.....	202.30	100.00	133.21	140.28	142.24	42.24%	6.78%	1.40%
Machinery and equipment rental and leasing.....	119.30	100.00	156.03	127.40	125.31	25.31%	(19.69%)	(1.64%)
Machinery, equipment & suppliers wholesalers.....	537.90	100.00	151.34	146.18	145.42	45.42%	(3.91%)	(0.52%)
Management & technical consulting services.....	1,133.60	100.00	156.98	167.87	167.69	67.69%	6.82%	(0.11%)
Management of companies & enterprises.....	1,520.60	100.00	194.91	210.14	209.37	109.37%	7.42%	(0.37%)
Medical and diagnostic laboratories.....	237.40	100.00	155.74	153.90	161.49	61.49%	3.69%	4.93%
Merchant wholesalers, misc. durable goods.....	205.20	100.00	140.65	-	149.19	49.19%	6.07%	2.13%
Metal & mineral wholesalers.....	101.20	100.00	118.33	105.94	106.78	6.78%	(9.76%)	0.79%
Motion picture & sound recording industries.....	150.40	100.00	-	110.51	115.29	15.29%	48.60%	4.33%

Table 2A: Index of CPI-adjusted Weekly Wages for Industry Categories Above the Quality Job Benchmark (Mean Weekly Wage) -Year 2000 = 100 (Continued)		Index of CPI-adjusted Weekly Income (1990 = 100)				% Change from Inception - July 2020	%Change from July 2019 - July 2020	%Change from June 2020 - July 2020
Industry Category	Total Number of Jobs (000)	Inception Date: January 1990	July 2019	June 2020	July 2020			
Motor vehicles & parts wholesalers.....	263.20	100.00	100.33	-	103.18	3.18%	2.84%	4.00%
Natural gas distribution.....	87.50	100.00	135.79	160.40	164.84	64.84%	21.39%	2.77%
Nondepository credit intermediation.....	448.20	100.00	188.82	204.28	215.13	115.13%	13.93%	5.31%
Office administrative services.....	381.80	100.00	213.18	229.94	235.67	135.67%	10.55%	2.49%
Offices of physicians.....	2,171.50	100.00	239.11	242.53	249.40	149.40%	4.30%	2.83%
Other financial investment activities, including funds and trusts.....	379.60	100.00	219.88	230.66	227.28	127.28%	3.37%	(1.46%)
Other information services.....	287.80	100.00	143.64	159.59	156.56	56.56%	9.00%	(1.90%)
Other motor vehicle dealers.....	116.40	100.00	-	-	180.54	80.54%	34.14%	10.39%
Outpatient care centers.....	812.50	100.00	184.41	196.11	199.74	99.74%	8.31%	1.85%
Paper & paper products wholesalers.....	99.10	100.00	96.44	71.46	66.05	(33.95%)	(31.52%)	(7.58%)
Petroleum wholesalers.....	81.00	100.00	130.80	127.66	130.13	30.13%	(0.51%)	1.94%
Pipeline transportation.....	40.46	100.00	216.24	215.93	214.80	114.80%	(0.66%)	(0.52%)
Power generation and supply.....	301.60	100.00	139.66	147.24	147.83	47.83%	5.85%	0.40%
Publishing Excluding Internet *.....	569.70							
Scientific research & development services.....	562.10	100.00	173.85	192.32	193.70	93.70%	11.41%	0.72%
Securities, commodity contracts, brokerage & exchanges.....	349.20	100.00	246.47	259.06	265.01	165.01%	7.52%	2.30%
Specialized design services.....	99.50	100.00	176.46	179.37	172.34	72.34%	(2.33%)	(3.92%)
Specialized freight trucking.....	374.10	100.00	123.59	117.12	119.34	19.34%	(3.44%)	1.89%
Spectator sports.....	63.50	100.00	-	205.17	214.41	114.41%	77.43%	4.51%
Support activities for other transportation, including rail.....	61.30	100.00	105.95	116.67	115.86	15.86%	9.36%	(0.69%)
Support activities for road transportation.....	81.60	100.00	-	123.02	110.40	10.40%	36.03%	(10.26%)
Support activities for water transportation.....	77.60	100.00	130.68	108.77	100.14	0.14%	(23.37%)	(7.93%)
Telecommunications services.....	561.30	100.00	115.29	120.27	119.13	19.13%	3.33%	(0.95%)
Travel arrangement & reservation services.....	116.00	100.00	-	-	207.68	107.68%	18.25%	1.80%
Water, sewage and other systems.....	38.10	100.00	104.49	121.99	123.91	23.91%	18.59%	1.57%
Wholesale electronic agents & brokers.....	379.70	100.00	133.35	161.61	158.31	58.31%	18.72%	(2.04%)

\* Sector was established in 2003, after the inception of the JQI. Sector included in job totals, but excluded from indexed weighted averages set forth in this table

Industry Category	Total Number of Jobs (000)	Index of CPI-adjusted Weekly Income (1990 = 100)				% Change from Inception - July 2020	%Change from July 2019 - July 2020	%Change from June 2020 - July 2020
		Inception Date: January 1990	July 2019	June 2020	July 2020			
Total Private Production and Non-supervisory Jobs.....	95,796.00	100.00	127.27	141.49	139.33	39.33%	9.47%	(1.53%)
<b>Total Low Quality Production and Non-supervisory Jobs.....</b>	<b>51,778.70</b>	<b>100.00</b>	<b>120.15</b>	<b>129.19</b>	<b>127.37</b>	<b>27.37%</b>	<b>6.01%</b>	<b>(1.41%)</b>
<b>Goods Producing</b>	<b>3,081.90</b>	<b>100.00</b>	<b>111.66</b>	<b>114.89</b>	<b>116.51</b>	<b>16.51%</b>	<b>4.35%</b>	<b>1.41%</b>
Apparel mfg.....	60.40	100.00	172.76	190.00	193.93	93.93%	12.25%	2.07%
Electrical & appliance mfg.....	244.30	100.00	-	95.66	96.97	(3.03%)	(6.76%)	1.37%
Food mfg.....	1,263.50	100.00	114.15	123.58	124.91	24.91%	9.43%	1.08%
Furniture mfg.....	252.50	100.00	120.87	133.59	132.28	32.28%	9.44%	(0.98%)
Other misc. mfg.....	171.40	100.00	120.51	125.22	118.48	18.48%	(1.69%)	(5.39%)
Other wood product mfg.....	172.80	100.00	121.33	124.61	128.08	28.08%	5.56%	2.78%
Plastic product mfg.....	432.30	100.00	-	111.83	112.38	12.38%	(3.68%)	0.49%
Printing & related mfg.....	247.40	100.00	71.94	70.67	73.47	(26.53%)	2.13%	3.97%
Rubber product mfg.....	96.20	100.00	-	42.88	63.94	(36.06%)	(24.27%)	49.12%
Textile mill mfg.....	70.70	100.00	119.35	116.33	128.16	28.16%	7.38%	10.17%
Textile product mill mfg.....	70.40	100.00	100.97	116.18	114.05	14.05%	12.96%	(1.83%)
<b>Services</b>	<b>48,696.80</b>	<b>100.00</b>	<b>128.64</b>	<b>143.50</b>	<b>138.23</b>	<b>38.23%</b>	<b>7.46%</b>	<b>(3.67%)</b>
Agents, promoters & managers of arts, sports, & similar events.....	66.60	100.00	77.95	127.69	117.50	17.50%	50.74%	(7.99%)
Amusements, gambling, and recreation industries.....	997.80	100.00	63.56	65.95	66.09	(33.91%)	3.98%	0.21%
Auto parts, accessories, & tire stores.....	452.40	100.00	106.79	121.85	121.85	21.85%	14.10%	1.16%
Auto repair & maintenance services.....	719.30	100.00	109.09	113.61	112.24	12.24%	2.88%	(1.21%)
Beer, wine, and liquor stores.....	123.90	100.00	78.67	103.67	102.98	2.98%	30.92%	(0.66%)
Book stores & news dealers.....	28.30	100.00	60.12	146.24	129.83	29.83%	115.95%	(11.22%)
Building material and supplies dealers.....	997.80	100.00	96.92	139.08	139.36	39.36%	43.79%	0.20%
Business support services.....	642.00	100.00	137.00	138.59	137.54	37.54%	0.40%	(0.76%)
Cafeterias, grill buffets, and buffets.....	31.30	100.00	116.39	165.78	143.74	43.74%	23.50%	(13.29%)
Child day care services.....	712.30	100.00	136.73	173.44	176.85	76.85%	29.35%	1.97%
Clothing stores.....	530.30	100.00	90.69	129.38	125.91	25.91%	38.84%	(2.68%)
Community care facilities for the elderly.....	822.30	100.00	128.29	143.25	137.37	37.37%	7.08%	(4.10%)
Courier and messenger services.....	811.90	100.00	201.82	212.69	216.12	116.12%	7.09%	1.62%
Death care services.....	104.70	100.00	76.97	97.42	95.59	(4.41%)	24.20%	(1.89%)
Drinking places, alcoholic beverages.....	176.30	100.00	201.95	189.00	174.30	74.30%	(13.69%)	(7.78%)
Drycleaning and laundry services.....	193.50	100.00	97.60	105.94	102.14	2.14%	4.66%	(3.58%)
Education.....	2,966.00	100.00	118.73	124.59	126.52	26.52%	6.56%	1.55%
Emergency and other relief services.....	147.20	100.00	138.82	168.43	162.80	62.80%	17.28%	(3.34%)
Employment services.....	2,796.40	100.00	147.52	174.84	167.03	67.03%	13.23%	(4.46%)
Facilities support services.....	138.40	100.00	73.93	59.60	60.32	(39.68%)	(18.40%)	1.22%
Florists.....	38.80	100.00	85.34	96.25	91.91	(8.09%)	7.70%	(4.50%)
Full-service restaurants.....	3,633.80	100.00	162.92	157.04	151.08	51.08%	(7.27%)	(3.80%)
Furniture stores.....	157.30	100.00	133.81	156.71	169.33	69.33%	26.55%	8.05%
Gasoline stations.....	754.80	100.00	91.37	100.43	99.43	(0.57%)	8.82%	(1.00%)
General merchandise stores.....	2,926.30	100.00	141.33	190.73	143.53	43.53%	1.56%	(24.74%)
General rental centers.....	24.40	100.00	72.81	86.36	101.36	1.36%	39.21%	17.37%
Grocery stores.....	2,444.30	100.00	65.04	74.13	66.12	(33.88%)	1.65%	(10.81%)
Home furnishings stores.....	162.80	100.00	84.54	128.74	105.91	5.91%	25.28%	(17.73%)
Home health care services.....	1,383.80	100.00	161.80	186.63	186.16	86.16%	15.06%	(0.25%)
Household goods repair & maintenance services.....	56.50	100.00	112.84	115.30	111.79	11.79%	(0.93%)	(3.04%)
Individual and family services.....	2,211.60	100.00	85.68	105.14	101.23	1.23%	18.15%	(3.72%)
Investigation & security services.....	814.40	100.00	164.59	181.61	185.14	85.14%	12.48%	1.94%
Jewelry, luggage, & leather goods stores.....	66.40	100.00	182.00	207.19	192.42	92.42%	5.72%	(7.13%)
Lawn and garden equipment and supplies stores.....	124.90	100.00	103.10	120.94	118.23	18.23%	14.68%	(2.24%)
Lessors of real estate.....	453.20	100.00	177.21	192.59	194.02	94.02%	9.49%	0.75%
Limited-service restaurants.....	3,637.90	100.00	137.06	150.09	148.09	48.09%	8.05%	(1.33%)
Membership associations & organizations.....	2,294.30	100.00	141.18	160.31	158.72	58.72%	12.42%	(0.99%)
Misc. nondurable goods wholesalers.....	257.60	100.00	-	133.56	134.39	34.39%	3.32%	0.62%
Museums, historical sites, and similar institutions.....	88.70	100.00	100.21	124.89	126.75	26.75%	26.49%	1.49%
Nonstore retailers.....	445.60	100.00	117.93	137.32	133.42	33.42%	13.13%	(2.85%)
Nursing care facilities.....	1,322.30	100.00	147.49	162.43	160.03	60.03%	8.50%	(1.47%)
Office supplies, stationery, & gift stores.....	142.60	100.00	53.38	49.74	58.03	(41.97%)	8.71%	16.68%
Offices of dentists.....	761.30	100.00	148.75	169.79	162.03	62.03%	8.92%	(4.57%)
Offices of other health practitioners.....	708.20	100.00	149.78	161.92	162.90	62.90%	8.76%	0.61%
Offices of real estate agents and brokers.....	257.80	100.00	140.43	156.08	154.62	54.62%	10.10%	(0.94%)
Other ambulatory health care services.....	263.40	100.00	138.72	143.51	145.11	45.11%	4.61%	1.12%
Other miscellaneous store retailers.....	267.20	100.00	80.60	85.59	94.88	(5.12%)	17.72%	10.85%
Other personal services.....	220.10	100.00	69.07	80.30	77.01	(22.99%)	11.50%	(4.10%)
Other professional and technical services.....	604.10	100.00	223.91	231.55	226.95	126.95%	1.36%	(1.99%)
Other residential care facilities.....	134.00	100.00	110.71	119.63	120.13	20.13%	8.51%	0.42%
Other support services.....	242.60	100.00	86.64	92.97	94.28	(5.72%)	8.81%	1.40%
Performing arts companies.....	42.00	100.00	143.64	172.97	182.61	82.61%	27.13%	5.57%
Personal care services.....	500.90	100.00	119.61	104.57	93.38	(6.62%)	(21.93%)	(10.71%)
RV parks and recreational camps.....	45.30	100.00	129.47	156.86	146.66	46.66%	13.28%	(6.50%)
Residential mental health facilities.....	533.00	100.00	133.12	152.09	153.82	53.82%	15.54%	1.14%
Retail electronics & appliance.....	328.60	100.00	-	198.85	196.04	96.04%	(0.55%)	(1.42%)
Retail health & personal care.....	743.90	100.00	179.19	188.35	185.88	85.88%	3.74%	(1.31%)

Table 2B: Index of CPI-adjusted Weekly Wages for Industry Categories Below the Quality Job Benchmark (Mean Weekly Wage) -Year 2000 = 100 (Continued)								
Industry Category	Total Number of Jobs (000)	Index of CPI-adjusted Weekly Income (1990 = 100)				% Change from Inception - July 2020	%Change from July 2019 - July 2020	%Change from June 2020 - July 2020
		Inception Date: January 1990	July 2019	June 2020	July 2020			
Services to buildings & dwellings.....	1,720.20	100.00	122.16	142.05	140.26	40.26%	14.82%	(1.26%)
Shoe stores.....	100.30	100.00	141.45	185.61	159.87	59.87%	13.02%	(13.87%)
Snack and nonalcoholic beverage bars.....	571.70	100.00	151.37	165.78	163.62	63.62%	8.09%	(1.31%)
Special food services.....	374.00	100.00	126.30	154.26	151.99	51.99%	20.35%	(1.47%)
Specialty food stores.....	170.40	100.00	72.34	84.08	81.54	(18.46%)	12.73%	(3.01%)
Sporting goods & musical instrument stores.....	328.30	100.00	101.89	128.94	131.82	31.82%	29.37%	2.24%
Support activities for air transportation.....	166.60	100.00	98.29	118.14	118.06	18.06%	20.12%	(0.07%)
Transit and ground passenger transportation.....	297.20	100.00	90.19	97.86	99.37	(0.63%)	10.18%	1.54%
Traveler accommodation.....	1,003.10	100.00	122.03	87.25	92.19	(7.81%)	(24.45%)	5.66%
Used merchandise stores.....	122.30	100.00	111.82	122.92	133.23	33.23%	19.14%	8.38%
Vocational rehabilitation services.....	233.80	100.00	129.24	163.28	159.55	59.55%	23.46%	(2.28%)
Warehousing and storage.....	1,055.50	100.00	84.87	87.63	74.16	(25.84%)	(12.62%)	(15.37%)