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# **After The Downturn:**

**An Analysis of Oklahoma Mining  
UI Claimants Post 1st Quarter  
2015, Employment and Earnings  
through 3<sup>rd</sup> Quarter 2017  
(revised)**



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**Introduction**

The performance of Oklahoma’s economy has historically been shown to be strongly linked to the vigor and health of our mining industry, specifically in the oil and gas portion of the mining industry. Although Oklahoma policymakers express continued commitment to industry diversification and over the last few decades have enacted several well-planned industry diversification strategies, the strong link of this industry with the state’s economic performance remains true today. Due to mining workers’ employment and earnings having such a potentially significant effect on those of all Oklahoma industry workers, questions are frequently asked of the nature: “What actually happened to mining workers employment and their earnings after the most recent cyclic mining downturn?” This analysis seeks to answer some, if not a large portion, of these important and relevant questions.

To address these questions, we used our agency administrative Unemployment Insurance (UI) records and our Quarterly Census of Employment and Wages program (QCEW) to construct a post-downturn ten-quarter history of mining employment and earnings. This was done by identifying 4,481 UI individual claimants in the 1<sup>st</sup> quarter 2015 downturn and tracing their employment and earnings histories over the succeeding ten quarters. Pre-downturn mining earnings were also researched for a comparison with post earnings by using individual employee’s earnings for the most recent quarter in which they only worked in mining. The industry categories used in this report are 2-digit NAICS, ‘Mixed Industries with Mining’ and ‘Mixed Industries without Mining’. All results are compiled and recounted as an aggregate, with earnings additionally reported in percentiles. Fourteen tables for employment are provided in Appendixes A and B and twenty-one tables for earnings are provided in Appendixes C and D at the end of this report.

**Employment Characteristics**

Employment for 1<sup>st</sup> quarter 2015 mining claimants is shown in various ways in ten tables in Appendix A. Table 1 shows the number of cases by number of quarters worked. Tables 2, 3, and 4 provide the number of jobs each mining UI claimant worked in each of the ten post-quarters from 2nd quarter 2015 to 3rd quarter 2017, each table showing one year. Tables 5, 6 and 7 shows the number of industries the claimants worked, each table showing the quarters worked in each of these three years. Tables 8, 9 and 10 displays the NAICS 2-digit industry or industry category of which the claimants worked in each of the ten the quarters, in the three years from 2nd quarter 2015 to 3rd quarter 2017, also each table showing one year.

In Appendix B, Tables 11, 12 and 13 provide the NAICS 2-digit industry worked in by mining UI claimants per number of quarters worked or employed. The final Table 14 in Appendix B provides information for tracing the employment journey for a typical mining UI claimant, after the downturn in the 1<sup>st</sup> quarter of 2015.

One area of relevant findings concerned the number of quarters the 1st quarter 2015 UI claimants had worked, as provided in Table 1, on page 1 of Appendix A. The largest category was the 1,198 or 26.7 percent claimants found to have worked ‘zero’ or no quarters. The second largest category shown on the table was the 656 or 14.6 percent claimants found to have worked all ten quarters. The third and fourth largest number of claimants worked in 9 quarters and 1 quarter, of 452 or 10.1 percent and 373 or 8.3 percent, respectively.

Another area of noteworthy findings were in regard to the number of jobs worked by our 4,481 identified UI mining claimants in the succeeding ten post quarters, as provided in Tables 2, 3 and 4 on pages 1 and 2 of Appendix A. The largest category in each of the ten quarters was “zero” or no jobs worked, exceeding

50 percent of the UI claimants in all quarters and maximizing at 2,635 or 58.8 percent in the 2<sup>nd</sup> quarter of 2016. The second-largest number of jobs worked category was “one” job worked, ranging from 1,565 or 34.9 percent in the 2<sup>nd</sup> quarter 2015 to 1,807 or 40.3 percent in the 4<sup>th</sup> quarter 2015. The third-largest category was “two” jobs worked, exceeding 5 percent of claimants in all but one quarter, the 2<sup>nd</sup> quarter of 2016. Four claimants worked up to “five” jobs in the 2<sup>nd</sup> quarter 2015, and one claimant worked “six” jobs in that same quarter. It is not shown, but UI claimants working a number of jobs in a quarter were also found to be the case in some of the prior pre-downturn six quarters.

Tables 5, 6 and 7 (on pages 3 and 4 of Appendix A) show the number of industries claimants worked in the subsequent ten quarters. As with the number of jobs worked, the largest category of industries worked was “zero” industries. The second-largest category was ‘one’ industry worked ranging from 1,616 cases or 36.1 percent in 2<sup>nd</sup> quarter 2015 to 1,940 or 43.3 percent in the 2<sup>nd</sup> quarter 2017. The third-largest category was “two” industries worked ranging from 132 cases or 2.9 percent in 2<sup>nd</sup> quarter 2016 to 237 cases or 5.3 percent in the 3<sup>rd</sup> quarter 2015. In all quarters, 22 cases or fewer and 0.5 percent or less of the claimants worked in “three” industries, three cases of a claimant working in “four” industries in the 3<sup>rd</sup> quarter of 2015, 1<sup>st</sup> quarter of 2016, 2<sup>nd</sup> quarter of 2017 and two cases of a claimant working “five” industries in the 4<sup>th</sup> quarter of 2016 and the 2<sup>nd</sup> quarter of 2017. It is not shown, but a similar distribution pattern of the number of industries worked for UI claimants was found in the prior pre-downturn six quarters.

Tables 8, 9 and 10 (on pages 5 through 7 of Appendix A) show which industries or what type of mixed industries (with mining or without mining) the 4,481 mining UI claimants worked during the following ten quarters of 2<sup>nd</sup> quarter 2015 through 3<sup>rd</sup> quarter 2017, one table for each year. Also, please note that we are using NAICS 2-digit industry group classifications. In every quarter, the largest group of the claimants worked in NAICS 21 Mining, usually followed by the second-largest group of NAICS 23 Construction and the third-largest group of NAICS 56 Administrative and Support and Waste Management and Remediation Services. There were two exceptions. The first exception was 2<sup>nd</sup> quarter 2015 where the ‘Mixed Industries with Mining’ category was second in size (175 cases), followed by NAICS 56 Administrative and Support and Waste Management and Remediation Services as third (140 cases), and NAICS 23 Construction (129 cases) was fourth in size. The second exception to this rule was in 4<sup>th</sup> quarter 2015, where NAICS 23 Construction and NAICS 56 Administrative and Support and Waste Management and Remediation Services were tied for second place, with 191 claimants in each. In that same quarter ‘Mixed Industries without Mining’, had 151 cases and was third in size.

Tables 11, 12 and 13 (on pages 1 through 3 of Appendix B) provides the findings for the industries in which UI mining claimants worked by total number of quarters, in the 2<sup>nd</sup> quarter 2015 through the 3<sup>rd</sup> quarter 2017. Table 11 shows the claimants that worked in only one to three quarters, Table 12 displays claimants who worked in only four to seven quarters and Table 13 shows the claimants who only worked eight to ten quarters. The top three ranked industries in each of the ten quarters shown in these three tables followed three patterns. The first pattern for ranking is shown in Table 11, for claimants who worked only one quarter out of the ten. The largest number is in NAICS 21 Mining, with 264 claimants or 5.9 percent; the second largest was in NAICS 23 Construction with 21 claimants or 0.5percent and the third largest was in NAICS 56 Administrative and Support and Waste Management and Remediation Services, with 17 claimants or 0.4percent.

The second pattern of rank for the top three industries or industry categories occurred in claimants that worked two through five quarters, out of the ten. These are shown in Table 11 and Table 12 (on pages 1 and 2 of Appendix B). For these number of quarters worked, the largest number is in NAICS 21 Mining, the second largest was in ‘Mixed Industries with Mining’ and the third largest number was in ‘Mixed Industries without Mining’. Those claimants who worked only two quarters also had a tie for third rank between ‘Mixed Industries with Mining’ and NAICS 23 Construction, each having 27 claimants or

0.6percent of those who worked.

The third pattern of rank for the top three industries or industry categories appeared in the claimants who worked only in six to ten quarters. These are displayed in Table 12 and Table 13 on pages 2 and 3 of Appendix B. The largest number of claimants worked in ‘Mixed Industries with Mining’, the second largest worked in ‘Mixed Industries without Mining’ and the third largest number of claimants worked in NAICS 21 Mining. Before leaving the ranking of industries worked by number of quarters, it should be noted that the larger the number of quarters worked by a claimant, the greater the odds that their overall employment would fall into one of the two mixed industry categories.

### **Earnings by Quarter**

The percentile earnings in the ten post quarters for 1st quarter 2015 mining UI claimants are shown in ten tables in Appendix C. The earnings are displayed in these ten tables in six different industry categories in comparison with “Past Mining Entire Quarter” (Past Mining) earnings. These being the six industry categories of ‘All Industries’, ‘Mining Only Entire Quarter (Mining Only)’, ‘Same Industry all Quarter (Same Industry)’, ‘Mixed Industries’ which may or may not have mining in the ‘Mix (Mixed Industries)’, ‘Mixed Industries with Mining’, and ‘Mixed Industries without Mining’ in comparison with the above mentioned seventh industry category of ‘Past Mining’. The tables also provide the earnings by 14 percentiles, ranging from the 5<sup>th</sup> through the 99<sup>th</sup> percentile. In the interest of brevity, only the 50<sup>th</sup> or median percentile, being the point where half the cases were larger and half smaller, will be mentioned most often in this report’s findings. For those interested in specific detail, the tables with all 14 percentiles earnings, all six industry categories and the percent change of earnings from the earnings of ‘Past Mining’ are provided at the end of this report in Appendix C.

Table 15 (page 1 of Appendix C) displays that in the first post-downturn quarter, 2nd quarter 2015, median mining UI claimants’ earnings for ‘All Industries’ was \$4,621 or a 70.1 percent decline from ‘Past Mining’ when the mining UI claimants last worked an entire quarter in mining. For those who worked in ‘Mining Only’, their median earnings were \$3,166, a 79.5 percent decline from ‘Past Mining’. Those who worked ‘Same Industry’ had a median earnings of \$4,193, a 72.9 percent decline; those who worked ‘Mixed Industries’, had a median earnings of \$6,477, or a 58.1 percent decline; those who worked ‘Mixed Industries with Mining’, had a median earnings of \$7,101 for a 54.1 percent decline; and those who worked ‘Mixed Industries without Mining’ had a median earnings of \$4,960, a 67.9 percent decline when each category were compared to ‘Past Mining’ earnings. The mining UI claimants who worked in ‘Mining Only’ had the highest rate of earnings decline for all of the six industry categories, with a 79.5 percent drop, while those who worked ‘Mixed Industries with Mining’ fared the best with a 54.1 percent decline.

The mining claimant earnings for the following second post-downturn quarter, 3<sup>rd</sup> quarter 2015, are shown in Table 16, on page 2 of Appendix C. The median earnings for ‘All Industries’ was \$7,582, a 51.0 percent decline from the earnings of ‘Past Mining’. The median earnings for ‘Mining Only’ were \$9,200, a 40.5 percent decline from the earnings of ‘Past Mining’, which was the smallest decrease of all the industry categories. Those who worked ‘Same Industry’ had a median earnings of \$7,569, a 51.1 percent decline; those who worked ‘Mixed Industries’ a median earnings of \$7,712, a 50.1 percent decline; those who worked in ‘Mixed Industries with Mining’ had a median earnings \$9,019, a 41.7 percent decline; and those who worked ‘Mixed Industries without Mining’ had a median earnings of \$6,864, a 55.6 percent decline. When each category was compared to ‘Past Mining’ earnings, mining UI claimants working ‘Mixed Industries without Mining’ fared the worst with the 55.6 percent decline in earnings in this quarter.

Table 17 (on page 3 of Appendix C) exhibits the third post-quarter, the 4<sup>th</sup> quarter of 2015, median mining

UI claimants' earnings for 'All Industries' was \$8,148, a 47.3 percent decline from 'Past Mining' earnings. The UI claimants who worked in the industry category of 'Mixed Industries with Mining' during this quarter fared the best with median earnings of \$9,935 and a 35.8 percent decline, while the claimants who worked in the industry category 'Mixed Industries without Mining' during the quarter fared the worst, having median earnings of \$6,425 and a 58.5 percent decline compared to 'Past Mining' earnings. The remaining industry categories median earnings and percent change are as follows, 'All Industries' had median earnings of \$8,148 for a 47.3 percent decline. The median earnings of 'Mining Only' was \$9,714, a 37.2 percent decline; for 'Same Industry' was \$8,254, a 46.6 percent decline; and the median earnings for 'Mixed Industries' was \$7,344, a 52.5 percent decline from 'Past Mining' earnings.

The fourth post-downturn quarter was the 1<sup>st</sup> quarter of 2016. The earnings for the six industry categories for this quarter are shown in Table 18, on page 4 of Appendix C at the end of this report. 'Mining Only', having median earnings of \$9,270, had the smallest decline of 40.1 percent; while the category of 'Mixed Industries without Mining', with median earnings of \$5,775, had the largest decline of 62.7 percent in this quarter, when each were compared to 'Past Mining' earnings. The median earnings of other industry categories ranged between that of these two categories. 'All Industries' had median earnings of \$7,503, a 51.5 percent decline; 'Same Industry' median earnings were \$7,627, a 50.7 percent decline; 'Mixed Industries' median earnings were \$6,418, a 58.5 percent decline; and the median earnings of 'Mixed Industries with Mining' were \$8,002, a 48.3 percent decline when compared with 'Past Mining' earnings.

Table 19 (on page 5 of Appendix C) shows the 2<sup>nd</sup> quarter 2016 earnings for the six industry categories. 'Mining Only' had the smallest decrease compared with 'Past Mining', with median earnings of \$9,827, a 36.5 percent decline. 'Mixed Industries without Mining' showed the largest decline, with median earnings of \$5,346, a 65.4 percent decline. The other industry categories ranged in median earnings between these two in their declines. 'All Industries' median earnings were \$7,631, a 50.7 percent decline from 'Past Mining' earnings; 'Same Industry' was \$7,877, a 49.1 percent decline; 'Mixed Industries' was \$5,708, a 63.1 percent decline; and 'Mixed Industries with Mining' median earnings were \$7,457, a 51.8 percent decline from 'Past Mining' earnings.

The sixth post-downturn quarter was the 3<sup>rd</sup> quarter of 2016. The earnings for the six industry categories for this quarter are shown in Table 20, on page 6 of Appendix C at the end of this report. 'Mining Only' having median earnings of \$11,727 had the smallest decline of 24.2 percent; while the industry category of 'Mixed Industries without Mining', with median earnings of \$6,984, had the largest decline of 54.8 percent in this quarter, when each were compared to 'Past Mining' earnings. Other industry categories' median earnings ranged between these two categories. 'All Industries' had median earnings of \$8,579, a 44.5 percent decline; 'Same Industry' median earnings were \$8,758, a 43.4 percent decline; 'Mixed Industries' median earnings were \$7,563, a 51.1 percent decline; and the median earnings of 'Mixed Industries with Mining' was \$9,493, a 38.6 percent decline when compared with 'Past Mining' earnings.

The seventh post-downturn quarter is the 4<sup>th</sup> quarter of 2016. Table 21 exhibits this quarter and is displayed on page 7 of Appendix C. The UI claimants who worked in the industry category of 'Mining Only' during this quarter fared the best with median earnings of \$12,343 and a 20.2 percent decline, while the claimants who worked in the industry category 'Mixed Industries without Mining' during the quarter fared the worst, having median earnings of \$7,249 and a 53.1 percent decline compared to 'Past Mining' earnings. The remaining industry categories median earnings and percent change are as follows, 'All Industries' had median earnings of \$9,185 for a 40.6 percent decline. The median earnings of 'Same Industry' was \$9,396, a 39.2 percent decline; for 'Mixed Industries' was \$7,605 a 50.8 percent decline; and the median earnings for 'Mixed Industries with Mining' was \$7,834, a 49.3 percent decline from 'Past Mining' earnings.

Table 22 (on page 8 of Appendix C) shows the 1<sup>st</sup> quarter 2017 earnings for the six industry categories.

‘Mining Only’ had the smallest decrease compared with ‘Past Mining’, with median earnings of \$12,126, a 21.6 percent decline. ‘Mixed Industries without Mining’ showed the largest decline, with median earnings of \$8,319, a 46.2 percent decline. The other industry categories ranged in median earnings between these two in their declines. ‘All Industries’ median earnings were \$9,210, a 40.4 percent decline from ‘Past Mining’ earnings; ‘Same Industry’ was \$9,281, a 40.0 percent decline; ‘Mixed Industries’ was \$8,398, a 45.7 percent decline; and ‘Mixed Industries with Mining’ median earnings were \$9,173, a 40.7 percent decline from ‘Past Mining’ earnings.

The ninth post-downturn quarter was the 2<sup>nd</sup> quarter of 2017. The earnings for the six industry categories for this quarter are shown in Table 23, on page 9 of Appendix C at the end of this report. ‘Mining Only’ having median earnings of \$14,190 had the smallest decline of 8.2 percent; while the industry category of ‘Mixed Industries without Mining’, with median earnings of \$8,095, had the largest decline of 47.7 percent in this quarter, when each were compared to ‘Past Mining’ earnings. Other industry categories’ median earnings ranged between these two categories. ‘All Industries’ had median earnings of \$10,519, a 32.0 percent decline; ‘Same Industry’ median earnings were \$10,690, a 30.9 percent decline; ‘Mixed Industries’ median earnings were \$9,334, a 39.6 percent decline; and the median earnings of ‘Mixed Industries with Mining’ was \$11,266, a 27.1 percent decline when compared with ‘Past Mining’ earnings.

The tenth post-downturn quarter is the 3<sup>rd</sup> quarter of 2017. Table 24 exhibits this quarter and is displayed on page 10 of Appendix C. The UI claimants who worked in the industry category of ‘Mining Only’ during this quarter fared the best with median earnings of \$14,558 and a 5.9 percent decline, while the claimants who worked in the industry category ‘Mixed Industries without Mining’ during the quarter fared the worst, having median earnings of \$8,508 and a 45.0 percent decline compared to ‘Past Mining’ earnings. The remaining industry categories median earnings and percent change are as follows, ‘All Industries’ had median earnings of \$11,257 for a 27.2 percent decline. The median earnings of ‘Same Industry’ was \$11,422, a 26.1 percent decline; for ‘Mixed Industries’ was \$9,478 a 38.7 percent decline; and the median earnings for ‘Mixed Industries with Mining’ was \$10,217, a 33.9 percent decline from ‘Past Mining’ earnings.

Comparing the earnings by percentile determined that both the lower 5<sup>th</sup> and the 99<sup>th</sup> percentile were the most erratic having both small and large decreases in earnings in their six industry categories, across the ten quarters, with the lower 5<sup>th</sup> more so than the upper 99<sup>th</sup>. When compared to pre-downturn earnings, in eight of the ten quarters the 5<sup>th</sup> percentile had the industry category with the lowest decrease in earnings, while the 99<sup>th</sup> had the lowest decrease in two quarters. Both the 5<sup>th</sup> and the 99<sup>th</sup> percentile had the highest decrease in three quarters. However, the 5<sup>th</sup> percentile had the industry category with the lowest decrease and the industry category with the highest decrease in the same quarters, when compared to pre-downturn earnings. These were the 3<sup>rd</sup> and 4<sup>th</sup> quarters 2015 and 3<sup>rd</sup> quarter 2016.

### **Earnings by Number of Quarters Worked, One to Ten Quarters**

The percentile post-downturn earnings by number of quarters worked are provided in the same six industry categories enumerated in the previous section, as shown in ten tables, Tables 25 through Table 34 in Appendix D provided at the end of this report. The earnings in six industry categories are again compared with ‘Past Mining’ earnings. Percentile earnings in these tables are presented by 14 percentiles. However, in the interest of brevity, the 50th or median percentile will be mentioned, most of the time in this written report. Detailed tables are provided in Appendix D at the end of this report.

Table 25 (on page 1 of Appendix D) displays the post-downturn earning percentiles and percent change of

each of the six industry categories, as compared with a seventh industry category of ‘Past Mining’ for mining UI claimants who only worked one quarter. ‘Mixed Industries with Mining’, with median earnings of \$3,404, had the smallest decline of 78.0 percent; while the industry category of ‘Mining Only’, with median earnings of \$1,101 had the largest decline of 92.9 percent, when compared to ‘Past Mining’ earnings. Other industry categories median earnings ranged between the amounts of these two categories. ‘All Industries’ had median earnings of \$1,285, a 91.7 percent decline; ‘Same Industry’ was \$1,271, a 91.8 percent decline; ‘Mixed Industries’ median earnings were \$3,324 a 78.5 percent decline; and ‘Mixed Industries without Mining’ median earnings were \$3,243, a 79.0 percent decline when compared with ‘Past Mining’ earnings.

The percentile earnings industry category of mining UI claimants who only worked two quarters is displayed in Table 26, on page 2 of Appendix D at the end of this report. ‘Mining Only’ with median earnings of \$4,930, had the smallest decline of 68.1 percent; while the industry category of ‘Mixed Industries without Mining’, with median earnings of \$2,254 had the largest decline of 85.4 percent in this quarter, when compared to ‘Past Mining’ earnings. The remaining categories had medians that ranged between these two. ‘All Industries’ had median earnings of \$3,844, a 75.1 percent decline; ‘Same Industry’ median earnings were \$3,259, a 78.9 percent decline; ‘Mixed Industries’ median earnings were \$2,375, an 84.6 percent decline; and ‘Mixed Industries with Mining’ median earnings were \$2,470, an 84.0 percent decline, when compared with ‘Past Mining’ earnings.

The percentile earnings of those who worked a total of three quarters are displayed in Table 27 on page 3 of Appendix D. The UI claimants who worked in the industry category of ‘Mining Only’ for three quarters managed the best with median earnings of \$9,098 and a 41.2 percent decline, while the claimants who worked in the industry category ‘Mixed Industries without Mining’ did the worst, having median earnings of \$3,521 and a 77.2 percent decline compared to ‘Past Mining’ earnings. The other remaining four industry categories median earnings and percent change are as follows, ‘All Industries’ had median earnings of \$5,510 for a 64.4 percent decline. The median earnings of ‘Same Industry’ was \$7,565, a 51.1 percent decline; for ‘Mixed Industries’ was \$3,810 a 75.4 percent decline; and the median earnings for ‘Mixed Industries with Mining’ was \$3,846 a 75.1 percent decline from ‘Past Mining’ earnings.

Table 28 (on page 4 of Appendix D) shows the post-downturn earning percentiles and percent change of each of the six industry categories, as compared with a seventh industry category of ‘Past Mining’ for mining UI claimants who worked a total of four quarters. ‘Mining Only’, with median earnings of \$9,321, had the smallest decline of 39.7 percent; while the industry category of ‘Mixed Industries without Mining’, with median earnings of \$4,106 had the largest decline of 73.5 percent in this quarter, when compared to ‘Past Mining’ earnings. The other four industry categories median earnings ranged between these two categories. ‘All Industries’ had median earnings of \$5,696, a 63.2 percent decline; ‘Same Industry’ was \$7,469, a 51.7 percent decline; ‘Mixed Industries’ median earnings were \$4,826 a 68.8 percent decline; and ‘Mixed Industries with Mining’ median earnings were \$5,170, a 66.6 percent decline when compared with ‘Past Mining’ earnings.

The industry earnings as reported by percentile, for six categories of mining UI claimants who only worked five quarters is displayed in Table 29, on page 5 of Appendix D at the end of this report. ‘Mining Only’ with median earnings of \$15,940, had the smallest decline of 3.1 percent; while the industry category of ‘Mixed Industries without Mining’, with median earnings of \$5,688 had the largest decline of 63.2 percent in this quarter, when compared to ‘Past Mining’ earnings. The remaining categories had medians that ranged between these two. ‘All Industries’ had median earnings of \$8,389, a 45.8 percent decline; ‘Same Industry’ median earnings were \$11,235, a 27.3 percent decline; ‘Mixed Industries’ median earnings were \$6,639, a 57.1 percent decline; and ‘Mixed Industries with Mining’ median earnings were \$7,058, a 54.4 percent decline, when compared with ‘Past Mining’ earnings.

The earnings of UI claimants who worked a total of six quarters are reported by percentile and are shown



in Table 30 on page 6 of Appendix D. The UI claimants who worked in the industry category of ‘Mining Only’ for six quarters managed the best with median earnings of \$10,532 and a 31.9 percent decline, while the claimants who worked in the industry category ‘Mixed Industries without Mining’ did the worst, having median earnings of \$5,678 and a 63.3 percent decline compared to ‘Past Mining’ earnings. The other remaining four industry categories median earnings and percent change are as follows, ‘All Industries’ had median earnings of \$7,341 for a 52.5 percent decline. The median earnings of ‘Same Industry’ was \$8,205, a 46.9 percent decline; for ‘Mixed Industries’ was \$6,774 a 56.2 percent decline; and the median earnings for ‘Mixed Industries with Mining’ was \$8,170 a 47.2 percent decline from ‘Past Mining’ earnings.

Table 31 (on page 7 of Appendix D) displays the post-downturn earning percentiles and percent change of each of the six industry categories, as compared with a seventh industry category of ‘Past Mining’ for mining UI claimants who worked a total of seven quarters. The ranking of these six industry categories by smallest percent decline in earnings to largest decline when compared to ‘Past Mining’ earnings, are as follows. ‘Mining Only’, with median earnings of \$12,181 had the smallest decline of 21.2 percent, ‘Same Industry’, with median earnings of \$8,774 had the second smallest decline of 43.3 percent, ‘All Industries’ with median earnings of 7,924, had the third smallest decline of 48.4 percent; ‘Mixed Industries with Mining’ with median earnings of \$7,567, was fourth smallest with a 51.1 percent decline; the ‘Mixed Industries’ median earnings of \$7,267 and 53.0 percent decline was fifth largest decline ; and ‘Mixed Industries without Mining’ with median earnings of \$6,072, had the largest decline of 60.7 percent fall, when compared with ‘Past Mining’ earnings.

The percentile earnings industry category of mining UI claimants who only worked eight quarters is displayed in Table 32, on page 8 of Appendix D at the end of this report. ‘Mining Only’ with median earnings of \$12,979, had the smallest decline of 16.1percent, while the industry category of ‘Mixed Industries without Mining’, with median earnings of \$6,650 had the largest decline of 57.0 percent in this quarter, when compared to ‘Past Mining’ earnings. The remaining categories had medians that ranged between these two. ‘All Industries’ had median earnings of \$7,857, a 49.2 percent decline; ‘Same Industry’ median earnings were \$8,709, a 43.7 percent decline; ‘Mixed Industries’ median earnings were \$7,774, a 49.7 percent decline; and ‘Mixed Industries with Mining’ median earnings were \$8,134, a 47.4 percent decline, when compared with ‘Past Mining’ earnings.

The percentile earnings of those who worked a total of nine quarters are displayed in Table 33 on page 9 of Appendix D. The UI claimants who worked in the industry category of ‘Mining Only’ for nine quarters managed the best with median earnings of \$13,235 and a 14.4 percent decline, while the claimants who worked in the industry category ‘Mixed Industries without Mining’ did the worst, having median earnings of \$8,086 and a 47.7 percent decline compared to ‘Past Mining’ earnings. The other remaining four industry categories median earnings and percent change are as follows, ‘All Industries’ had median earnings of \$9,302 for a 39.9 percent decline. The median earnings of ‘Same Industry’ was \$10,634 a 31.2 percent decline; for ‘Mixed Industries’ was \$8,748 a 43.4 percent decline; and the median earnings for ‘Mixed Industries with Mining’ was \$9,202 a 40.5 percent decline from ‘Past Mining’ earnings.

The earnings of UI claimants who worked a total of ten quarters are reported by percentile and are shown in Table 34 on page 10 of Appendix D. The UI claimants who worked in the industry category of ‘Mining Only’ for ten quarters managed the best with median earnings of \$12,219 and a 21.0 percent decline, while the claimants who worked in the industry category ‘Mixed Industries without Mining’ did the worst, having median earnings of \$9,232 and a 40.3 percent decline compared to ‘Past Mining’ earnings. The other remaining four industry categories median earnings and percent change are as follows, ‘All Industries’ had median earnings of \$10,428 for a 32.6 percent decline. The median earnings

of ‘Same Industry’ was \$10,969, a 29.1 percent decline; for ‘Mixed Industries’ was \$10,050 a 35.0 percent decline; and the median earnings for ‘Mixed Industries with Mining’ was \$10,581 a 31.6 percent decline from ‘Past Mining’ earnings.

The fourteen earning percentiles, by the six industry categories, compared to pre-downturn earnings by total number of quarters are also reported in the tables in Appendix D. Three patterns of earnings change by percentile were noted. First, across the one to ten quarters those in the lowest 5<sup>th</sup> percentile of earnings demonstrated some of the largest earnings decline as well as the smallest declines; displaying increasingly volatile changes, up and down earnings changes, as the number of quarters worked increased. The 10<sup>th</sup> percentile had some of the lowest income declines, while the 99<sup>th</sup> percentile often did not have enough data to allow reporting. The middle percentiles of the 40<sup>th</sup> to the 60<sup>th</sup> usually had similar earnings changes.

### **A Typical Mining UI Claimant: Tracing a Mining UI Claimant’s Employment Journey and Earnings**

The employment and earnings tables in the appendices of this report display a large amount of information. Although the information is useful, it may be difficult to trace and get a grasp on the post-downturn mining UI claimant’s sequenced employment and earnings from the tables already summarized in this report. Therefore, an analysis was conducted to trace a ‘typical’ mining UI claimant’s post-downturn employment journey and his likely final earnings in the 3<sup>rd</sup> quarter of 2017, as compared to ‘Past Mining’ earnings. The analysis results for employment are provided in Table 14 (page 4 of Appendix B) and the earnings analysis results are provided in Table 35 (page 11 of Appendix D). Employment information in Tables 8, 9 and 10 (on pages 5 through 7 of Appendix A) was also used in tracing the typical mining industry post-downturn, and composing a narrative of the journey.

Using and combining the information in Table 8 and Table 14, the typical mining UI applicant was not employed in the 2<sup>nd</sup> quarter of 2015 (2,608 cases). However, if he were employed he most likely worked in mining (942 cases). In the 3<sup>rd</sup> quarter of 2015, if the mining applicant remained working, he again most likely worked in mining (426 cases). After these two quarters of mining employment, the claimant likely left mining (405 cases), working in other industries in some quarters, working in multiple industries and perhaps two or more jobs in other quarters and not employed in part of the quarters during the seven remaining quarters. By the 3<sup>rd</sup> quarter of 2017, most employed mining claimants worked in other industries (1,114 total cases). Table 35 (on page 11 of Appendix C) compares the percentile earnings of these mining UI claimants working in other industries with their ‘Past Mining’ earnings, showing median earnings were \$9,251 or a 40.2 percent decline from ‘Past Mining’ earnings.

The previous analysis ended with the 3<sup>rd</sup> quarter of 2016. At that time the typical mining UI claimant ended with a 48.6 median decline; since that time there has been better than an 8 percent less decline. The ones that remained in mining (Table 14, page 4 of Appendix B) and the ones that had returned to mining by the 3<sup>rd</sup> quarter 2017 totaled 811 (Table 10, page 7 Appendix A), or 86.1 percent of the 942 employed in mining in the 2<sup>nd</sup> quarter of 2015 (Table 15, page 1 Appendix C). The median earnings were \$14,558 by that time and the percent of decline had recovered until the difference in pre-downturn earnings was only 5.9 percent (Table 24, page 10 Appendix C).

### **Summary of Findings for Employment Characteristics**

During the 1st quarter 2015, the 4,481 mining UI claimants were examined by number of quarters they

had worked, the number of jobs worked, the number of industry categories worked in, and the amounts who worked NAICS 2-digit industries in each quarter and by total of quarters worked. The analysis of number of quarters worked found that most UI claimants didn't work in any of the quarters (1,198 or 26.7percent), the second largest number worked in all ten quarters (656 or 14.6percent) and the third largest number worked in nine quarters (452 or 10.1percent). Examining the UI claimants by number of jobs worked in each quarter determined that the largest number were unemployed for the ten quarters (exceeding half of the claimants in each quarter), the second largest number worked in 'one' job and the third largest number worked in 'two' jobs. Looking at the UI claimants by number of industries worked in determined that the largest group, again, didn't work in any industry, the second largest group worked in one industry and the third largest group worked in two industries, in each of the ten quarters.

The analysis of the mining UI claimants by numbers working in NAICS 2-digit industries for each of the ten quarters found that the largest number worked in NAICS 21 Mining, most commonly followed by a second largest number in NAICS 23 Construction and a third largest number in NAICS 56 Administrative Support and Waste Management Remediation Services. There were two exceptions. In the 2<sup>nd</sup> quarter 2015, 'Mixed Industries with Mining' was second and NAICS 56 Administrative Support and Waste Management Remediation Services was third. In the 4<sup>th</sup> quarter 2015, NAICS 23 Construction and NAICS 56 Administrative Support and Waste Management Remediation Services were tied for second, with 'Mixed Industries with Mining' as third.

The examination of mining claimants by numbers working in NAICS 2-digit industries by number of quarters worked determined three ranking patterns. For those who worked one quarter, NAICS 21 Mining was the first in rank by numbers, NAICS 23 Construction was second in rank and NAICS 56 Administrative Support and Waste Management Remediation Services was third. Those claimants who worked two through five numbers of quarters, NAICS 21 Mining had the largest number, 'Mixed Industries with Mining' was second and 'Mixed Industries without Mining' was third in number. For those claimants who worked six to ten quarters the pattern was that the largest number of UI claimants worked in 'Mixed Industries with Mining', the second largest number was 'Mixed Industries without Mining' and the third largest number of UI claimants worked in NAICS 21 Mining.

### **Summary of Findings for Earnings Change by Quarter**

The mining UI claimant earnings change was examined by each of the ten quarters worked (2<sup>nd</sup> quarter 2015 to 3<sup>rd</sup> quarter 2017) determined three findings. In eight of the ten quarters, the industry category of 'Mining Only' had the smallest percent decrease in 50<sup>th</sup> percentile or median earnings, when compared to pre-turndown earns, The two exceptions where the 2<sup>nd</sup> quarter 2015 when 'Mixed Industries' had the smallest and 4<sup>th</sup> quarter 2015 when 'Mixed Industries with Mining' had the smallest decrease in earnings.

In nine of the ten quarters the industry category of 'Mixed Industries without Mining' had the largest percent decrease in 50<sup>th</sup> percentile earnings to pre-downturn earnings. The one exception was the 2<sup>nd</sup> quarter 2015, when 'Mining Only' had the largest decrease compared to these past earnings. The 5<sup>th</sup> and the 99<sup>th</sup> percentiles were the most erratic in that they often had industry categories with the highest decrease and the lowest decrease in the ten quarters.

### **Summary of Findings for Earnings Change by Number of Quarters Worked**

The analysis of mining UI claimant earnings change by the numbers of quarters worked

determined six findings. In all but only one quarter worked, the industry category with the least 50<sup>th</sup> percentile decline in earnings was 'Mining Only' and the largest decline in earnings was the 'Mixed Industries without Mining'. In only one quarter worked, 'Mixed Industries with Mining' had the lowest decrease in earnings and 'Mining Only' had the largest decrease.

In general, the industry categories decreased in their percent of median earnings decline with increased number of quarters worked. However, 'Mining Only' had its lowest earnings decrease with five quarters worked. The lowest 5<sup>th</sup> percentile was erratic in the six industry categories, displaying both the smallest and largest decreases in income. The 10<sup>th</sup> percentile also had some of the lowest declines, while the middle percentiles of the 30<sup>th</sup> to the 70<sup>th</sup>, usually showing similar sized decreases in income, when compared to pre-downturn earnings.

**Appendix A. Mining Industry Unemployment Insurance (UI) Claimant Post Filing Employment by Year and Quarter (revised)**

<b>Table 1. Number of Quarters Mining UI Claimants Worked (2nd Quarter 2015 through 3rd Quarter 2017).</b>		
<b>Number of Quarters</b>	<b>Number of Claimants</b>	<b>Percent of Claimants</b>
0	1,198	26.7
1	373	8.3
2	312	7.0
3	267	6.0
4	192	4.3
5	234	5.2
6	204	4.6
7	261	5.8
8	332	7.4
9	452	10.1
10	656	14.6
<b>Total</b>	<b>4,481</b>	<b>100.0</b>

Note: Mining industry unemployment insurance claimants were determined by their having filed in year 2015's first quarter, the initial quarter of mining's downturn.

<b>Table 2. Number of Jobs Mining UI Claimants Worked per Quarter - 2nd Quarter 2015 to 4th Quarter 2015.</b>						
<b>Number of Jobs</b>	<b>2nd Quarter</b>		<b>3rd Quarter</b>		<b>4th Quarter</b>	
	<b>Number of Claimants</b>	<b>Percent of Claimants</b>	<b>Number of Claimants</b>	<b>Percent of Claimants</b>	<b>Number of Claimants</b>	<b>Percent of Claimants</b>
0	2,608	58.2	2,522	56.3	2,376	53.0
1	1,565	34.9	1,653	36.9	1,807	40.3
2	266	5.9	274	6.1	265	5.9
3	37	0.8	26	0.6	29	0.6
4	0	0.0	6	0.1	3	0.1
5	4	0.1	0	0.0	1	0.0
6	1	0.0	0	0.0	0	0.0
<b>Total</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>

Note: Mining UI claimants were determined by their having filed in 1st Quarter 2015, the initial quarter of mining's downturn.

**Table 3. Number of Jobs Mining UI Claimants Worked per Quarter - 2016.**

Number of Jobs	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants
0	2,518	56.2	2,635	58.8	2,508	56.0	2,496	55.7
1	1,717	38.3	1,665	37.2	1,710	38.2	1,729	38.6
2	228	5.1	168	3.7	227	5.1	231	5.2
3	15	0.3	11	0.2	34	0.8	23	0.5
4	3	0.1	2	0.0	2	0.0	1	0.0
5	0	0.0	0	0.0	0	0.0	1	0.0
<b>Total</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>

Note: Mining UI claimants were determined by their having filed in 1st Quarter 2015, the initial quarter of mining's downturn.

**Table 4. Number of Jobs Mining UI Claimants Worked per Quarter - 1st Quarter 2017 to 3rd Quarter 2017.**

Number of Jobs	1st Quarter		2nd Quarter		3rd Quarter	
	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants
0	2,409	53.8	2,329	52.0	2,338	52.2
1	1,805	40.3	1,844	41.2	1,839	41.0
2	247	5.5	269	6.0	282	6.3
3	19	0.4	36	0.8	19	0.4
4	1	0.0	2	0.0	3	0.1
5	0	0.0	1	0.0	0	0.0
<b>Total</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>

Note: Mining UI claimants were determined by their having filed in 1st Quarter 2015, the initial quarter of mining's downturn.

**Table 5. Number of Industries Mining Unemployment Claimants Worked per Quarter - 2015.**

Number of Industries	2nd Quarter		3rd Quarter		4th Quarter	
	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants
0	2,608	58.2	2,522	56.3	2,376	53.0
1	1,616	36.1	1,707	38.1	1,859	41.5
2	237	5.3	238	5.3	224	5.0
3	20	0.4	13	0.3	22	0.5
4	0	0.0	1	0.0	0	0.0
<b>Total</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>

Note: Mining UI claimants were determined by their having filed in 1st Quarter 2015, the initial quarter of mining's downturn.

**Table 6. Number of Industries Mining Unemployment Claimants Worked per Quarter - 2016.**

Number of Industries	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants
0	2,518	56.2	2,635	58.8	2,508	56.0	2,496	55.7
1	1,778	39.7	1,708	38.1	1,774	39.6	1,791	40.0
2	172	3.8	132	2.9	177	4.0	178	4.0
3	12	0.3	6	0.1	22	0.5	15	0.3
4	1	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	1	0.0
<b>Total</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>

Note: Mining UI claimants were determined by their having filed in 1st Quarter 2015, the initial quarter of mining's downturn.

<b>Table 7. Number of Industries Mining Unemployment Claimants Worked per Quarter - 2017.</b>						
	1st Quarter		2nd Quarter		3rd Quarter	
Number of Industries	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants
0	2,409	53.8	2,329	52.0	2,338	52.2
1	1,863	41.6	1,940	43.3	1,924	42.9
2	199	4.4	198	4.4	213	4.8
3	10	0.2	12	0.3	6	0.1
4	0	0.0	1	0.0	0	0.0
5	0	0.0	1	0.0	0	0.0
<b>Total</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>

Note: Mining UI claimants were determined by their having filed in 1st Quarter 2015, the initial quarter of mining's downturn.

(Appendix A continued on next page 5)



**Table 8. Industries Mining UI Claimants<sup>1</sup> Worked in per Quarter - 2015.**

NAICS (2-Digit) Industries <sup>2</sup>	2nd Quarter		3rd Quarter		4th Quarter	
	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants
11	15	0.3	26	0.6	25	0.6
21	942	21.0	629	14.0	669	14.9
22	3	0.1	12	0.3	19	0.4
23	129	2.9	195	4.4	191	4.3
31	13	0.3	24	0.5	25	0.6
32	30	0.7	50	1.1	60	1.3
33	33	0.7	70	1.6	69	1.5
42	38	0.8	64	1.4	69	1.5
44	39	0.9	66	1.5	81	1.8
45	20	0.4	26	0.6	32	0.7
48	58	1.3	82	1.8	88	2.0
49	7	0.2	8	0.2	12	0.3
51	6	0.1	9	0.2	14	0.3
52	11	0.2	12	0.3	14	0.3
53	16	0.4	20	0.4	27	0.6
54	26	0.6	31	0.7	45	1.0
55	3	0.1	7	0.2	8	0.2
56	140	3.1	185	4.1	191	4.3
61	6	0.1	25	0.6	31	0.7
62	13	0.3	21	0.5	23	0.5
71	4	0.1	11	0.2	21	0.5
72	17	0.4	26	0.6	32	0.7
81	18	0.4	31	0.7	36	0.8
92	31	0.7	60	1.3	77	1.7
<b>Mixed (with Mining)</b>	175	3.9	108	2.4	95	2.1
<b>Mixed (without Mining)</b>	80	1.8	161	3.6	151	3.4
<b>Total Worked</b>	1,873	41.8	1,959	43.7	2,105	47.0
<b>Did not Work</b>	2,608	58.2	2,522	56.3	2,376	53.0
<b>Total Claimants</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>

Note<sup>1</sup>: Mining UI claimants were determined by their having filed in 1st Quarter 2015, the initial quarter of mining's downturn.

Note<sup>2</sup>: For a detailed description of individual 2-digit NAICS codes please see:

[https://www.bls.gov/cew/bls\\_naics/v2/bls\\_naics\\_app.htm#tab=hierarchy&naics=2017&hier=default](https://www.bls.gov/cew/bls_naics/v2/bls_naics_app.htm#tab=hierarchy&naics=2017&hier=default)

**Table 9. Industries Mining UI Claimants<sup>1</sup> Worked in per Quarter - 2016.**

NAICS (2-Digit) Industries <sup>2</sup>	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants
11	35	0.8	19	0.4	28	0.6	30	0.7
21	507	11.3	411	9.2	473	10.6	555	12.4
22	21	0.5	23	0.5	23	0.5	25	0.6
23	212	4.7	209	4.7	220	4.9	216	4.8
31	29	0.6	30	0.7	29	0.6	28	0.6
32	73	1.6	78	1.7	79	1.8	69	1.5
33	73	1.6	80	1.8	85	1.9	92	2.1
42	73	1.6	81	1.8	75	1.7	76	1.7
44	79	1.8	86	1.9	75	1.7	79	1.8
45	39	0.9	43	1.0	37	0.8	46	1.0
48	80	1.8	89	2.0	97	2.2	85	1.9
49	13	0.3	13	0.3	13	0.3	14	0.3
51	14	0.3	15	0.3	17	0.4	14	0.3
52	18	0.4	22	0.5	21	0.5	19	0.4
53	24	0.5	23	0.5	26	0.6	30	0.7
54	55	1.2	58	1.3	55	1.2	53	1.2
55	6	0.1	4	0.1	4	0.1	4	0.1
56	195	4.4	193	4.3	194	4.3	176	3.9
61	26	0.6	17	0.4	25	0.6	26	0.6
62	25	0.6	31	0.7	28	0.6	22	0.5
71	20	0.4	22	0.5	18	0.4	16	0.4
72	36	0.8	33	0.7	35	0.8	35	0.8
81	29	0.6	39	0.9	21	0.5	23	0.5
92	81	1.8	88	2.0	94	2.1	59	1.3
Mixed (with Mining)	76	1.7	40	0.9	68	1.5	88	2.0
Mixed (without Mining)	124	2.8	99	2.2	133	3.0	105	2.3
<b>Total Worked</b>	<b>1,963</b>	<b>43.8</b>	<b>1,846</b>	<b>41.2</b>	<b>1,973</b>	<b>44.0</b>	<b>1,985</b>	<b>44.3</b>
<b>Did not Work</b>	<b>2,518</b>	<b>56.2</b>	<b>2,635</b>	<b>58.8</b>	<b>2,508</b>	<b>56.0</b>	<b>2,496</b>	<b>55.7</b>
<b>Total Claimants</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>

Note<sup>1</sup>: Mining UI claimants were determined by their having filed in 1st Quarter 2015, the initial quarter of mining's downturn.

Note<sup>2</sup>: For a detailed description of individual 2-digit NAICS codes please see:

[https://www.bls.gov/cew/bls\\_naics/v2/bls\\_naics\\_app.htm#tab=hierarchy&naics=2017&hier=default](https://www.bls.gov/cew/bls_naics/v2/bls_naics_app.htm#tab=hierarchy&naics=2017&hier=default)

**Table 10. Industries Mining UI Claimants<sup>1</sup> Worked in per Quarter - 2017.**

NAICS (2-Digit) Industries <sup>2</sup>	1st Quarter		2nd Quarter		3rd Quarter	
	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants	Number of Claimants	Percent of Claimants
11	24	0.5	23	0.5	18	0.4
21	660	14.7	782	17.5	811	18.1
22	19	0.4	21	0.5	21	0.5
23	188	4.2	180	4.0	181	4.0
31	24	0.5	19	0.4	15	0.3
32	58	1.3	60	1.3	56	1.2
33	93	2.1	88	2.0	98	2.2
42	77	1.7	83	1.9	84	1.9
44	81	1.8	68	1.5	60	1.3
45	34	0.8	32	0.7	32	0.7
48	88	2.0	88	2.0	83	1.9
49	12	0.3	10	0.2	7	0.2
51	15	0.3	14	0.3	11	0.2
52	20	0.4	21	0.5	23	0.5
53	27	0.6	25	0.6	27	0.6
54	53	1.2	47	1.0	53	1.2
55	3	0.1	4	0.1	5	0.1
56	166	3.7	165	3.7	156	3.5
61	28	0.6	26	0.6	19	0.4
62	27	0.6	26	0.6	23	0.5
71	15	0.3	12	0.3	9	0.2
72	42	0.9	31	0.7	24	0.5
81	24	0.5	29	0.6	26	0.6
92	85	1.9	86	1.9	83	1.9
Mixed (with Mining)	102	2.3	112	2.5	111	2.5
Mixed (without Mining)	107	2.4	100	2.2	107	2.4
<b>Total Worked</b>	<b>2,072</b>	<b>46.2</b>	<b>2,152</b>	<b>48.0</b>	<b>2,143</b>	<b>47.8</b>
<b>Did not Work</b>	<b>2,409</b>	<b>53.8</b>	<b>2,329</b>	<b>52.0</b>	<b>2,338</b>	<b>52.2</b>
<b>Total Claimants</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>

Note<sup>1</sup>: Mining UI claimants were determined by their having filed in 1st Quarter 2015, the initial quarter of mining's downturn.

Note<sup>2</sup>: For a detailed description of individual 2-digit NAICS codes please see:

[https://www.bls.gov/cew/bls\\_naics/v2/bls\\_naics\\_app.htm#tab=hierarchy&naics=2017&hier=default](https://www.bls.gov/cew/bls_naics/v2/bls_naics_app.htm#tab=hierarchy&naics=2017&hier=default)

**Appendix B. Mining Industry Unemployment Insurance (UI) Claimant Post Filing Employment by Number of Quarters Worked (revised)**

<b>Table 11. Industries UI Mining Claimants<sup>1</sup> Worked by Industry Category and Number of Quarters Worked (1 to 3 quarters)<sup>3</sup></b>						
<b>NAICS (2-Digit) Industries<sup>2</sup></b>	<b>Only 1 Quarter</b>	<b>Only 1 Quarter %</b>	<b>Only 2 Quarters</b>	<b>Only 2 Quarters %</b>	<b>Only 3 Quarters</b>	<b>Only 3 Quarters %</b>
11	2	0.0	1	0.0	1	0.0
21	264	5.9	161	3.6	92	2.1
22	0	0.0	1	0.0	0	0.0
23	21	0.5	27	0.6	21	0.5
31	4	0.1	1	0.0	3	0.1
32	2	0.0	1	0.0	1	0.0
33	6	0.1	2	0.0	1	0.0
42	6	0.1	6	0.1	7	0.2
44	7	0.2	3	0.1	6	0.1
45	4	0.1	3	0.1	1	0.0
48	9	0.2	3	0.1	4	0.1
49	1	0.0	0	0.0	0	0.0
51	2	0.0	0	0.0	0	0.0
52	0	0.0	1	0.0	0	0.0
53	1	0.0	2	0.0	0	0.0
54	4	0.1	2	0.0	4	0.1
55	1	0.0	1	0.0	9	0.2
56	17	0.4	18	0.4	1	0.0
61	1	0.0	3	0.1	1	0.0
62	1	0.0	1	0.0	0	0.0
71	0	0.0	0	0.0	3	0.1
72	3	0.1	5	0.1	3	0.1
81	5	0.1	4	0.1	1	0.0
92	2	0.0	1	0.0	2	0.0
Mixed (with Mining)	5	0.1	38	0.8	68	1.5
Mixed (without Mining)	5	0.1	27	0.6	38	0.8
<b>Total Worked</b>	<b>373</b>	<b>8.3</b>	<b>312</b>	<b>7.0</b>	<b>267</b>	<b>6.0</b>
<b>Did not Work</b>	<b>4,108</b>	<b>91.7</b>	<b>4,169</b>	<b>93.0</b>	<b>4,214</b>	<b>94.0</b>
<b>Total Claimants</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>

Note<sup>1</sup>: Mining UI claimants were determined by their having filed in 1st Quarter 2015, the initial quarter of mining's downturn.

Note<sup>2</sup>: For a detailed description of individual 2-digit NAICS codes please see:

[https://www.bls.gov/cew/bls\\_naics/v2/bls\\_naics\\_app.htm#tab=hierarchy&naics=2017&hier=default](https://www.bls.gov/cew/bls_naics/v2/bls_naics_app.htm#tab=hierarchy&naics=2017&hier=default)

Note<sup>3</sup>: Quarters fell in 2nd quarter 2015 to 3rd Quarter 2017.

**Table 12. Industries UI Mining Claimants<sup>1</sup> Worked by Industry Category and Number of Quarters Worked (4 to 7 quarters)<sup>3</sup>**

NAICS (2-Digit) Industries <sup>2</sup>	Only 4 Quarters	Only 4 Quarters %	Only 5 Quarters	Only 5 Quarters %	Only 6 Quarter	Only 6 Quarter %	Only 7 Quarters	Only 7 Quarters %
11	1	0.0	4	0.1	0	0.0	1	0.0
21	49	1.1	48	1.1	40	0.9	39	0.9
22	0	0.0	0	0.0	1	0.0	0	0.0
23	10	0.2	11	0.2	10	0.2	6	0.1
31	0	0.0	0	0.0	0	0.0	1	0.0
32	2	0.0	0	0.0	1	0.0	0	0.0
33	2	0.0	1	0.0	2	0.0	3	0.1
42	1	0.0	0	0.0	2	0.0	3	0.1
44	1	0.0	4	0.1	3	0.1	5	0.1
45	3	0.1	1	0.0	3	0.1	2	0.0
48	2	0.0	5	0.1	4	0.1	2	0.0
49	2	0.0	0	0.0	1	0.0	0	0.0
51	0	0.0	0	0.0	0	0.0	1	0.0
52	0	0.0	0	0.0	0	0.0	0	0.0
53	0	0.0	1	0.0	1	0.0	1	0.0
54	3	0.1	0	0.0	2	0.0	2	0.0
55	0	0.0	0	0.0	1	0.0	0	0.0
56	5	0.1	7	0.2	2	0.0	8	0.2
61	1	0.0	2	0.0	1	0.0	0	0.0
62	0	0.0	2	0.0	2	0.0	1	0.0
71	0	0.0	0	0.0	1	0.0	0	0.0
72	0	0.0	2	0.0	2	0.0	0	0.0
81	2	0.0	0	0.0	0	0.0	0	0.0
92	2	0.0	2	0.0	3	0.1	2	0.0
Mixed (with Mining)	61	1.4	98	2.2	79	1.8	122	2.7
Mixed (without Mining)	45	1.0	46	1.0	43	1.0	62	1.4
Total Worked	192	4.3	234	5.2	204	4.6	261	5.8
Did not Work	4,289	95.7	4,247	94.8	4,277	95.4	4,220	94.2
<b>Total Claimants</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>

Note<sup>1</sup>: Mining UI claimants were determined by their having filed in 1st Quarter 2015, the initial quarter of mining's downturn.

Note<sup>2</sup>: For a detailed description of individual 2-digit NAICS codes please see: [https://www.bls.gov/cew/bls\\_naics/v2/bls\\_naics\\_app.htm#tab=hierarchy&naics=2017&hier=default](https://www.bls.gov/cew/bls_naics/v2/bls_naics_app.htm#tab=hierarchy&naics=2017&hier=default)

Note<sup>3</sup>: Quarters fell in 2nd quarter 2015 to 3rd Quarter 2017.

**Table 13. Industries UI Mining Claimants<sup>1</sup> Worked by Industry Category and Number of Quarters Worked (8 to 10 quarters)<sup>3</sup>**

NAICS (2-Digit) Industries <sup>2</sup>	Only 8 Quarters	Only 8 Quarters %	Only 9 Quarters	Only 9 Quarters %	Only 10 Quarters	Only 10 Quarters %
11	3	0.1	3	0.1	0	0.0
21	30	0.7	50	1.1	120	2.7
22	0	0.0	1	0.0	1	0.0
23	8	0.2	10	0.2	19	0.4
31	0	0.0	1	0.0	4	0.1
32	7	0.2	7	0.2	6	0.1
33	3	0.1	8	0.2	9	0.2
42	2	0.0	4	0.1	7	0.2
44	4	0.1	3	0.1	6	0.1
45	2	0.0	3	0.1	4	0.1
48	2	0.0	5	0.1	10	0.2
49	3	0.1	2	0.0	0	0.0
51	1	0.0	1	0.0	1	0.0
52	1	0.0	0	0.0	6	0.1
53	0	0.0	0	0.0	4	0.1
54	2	0.0	4	0.1	5	0.1
55	0	0.0	0	0.0	1	0.0
56	12	0.3	9	0.2	9	0.2
61	2	0.0	3	0.1	5	0.1
62	1	0.0	2	0.0	1	0.0
71	0	0.0	2	0.0	1	0.0
72	1	0.0	0	0.0	1	0.0
81	2	0.0	0	0.0	1	0.0
92	8	0.2	10	0.2	8	0.2
Mixed (with Mining)	147	3.3	207	4.6	301	6.7
Mixed (without Mining)	91	2.0	117	2.6	126	2.8
Total Worked	332	7.4	452	10.1	656	14.6
Did not Work	4,149	92.6	4,029	89.9	3,825	85.4
<b>Total Claimants</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>	<b>4,481</b>	<b>100.0</b>

Note<sup>1</sup>: Mining UI claimants were determined by their having filed in 1st Quarter 2015, the initial quarter of mining's downturn.

Note<sup>2</sup>: For a detailed description of individual 2-digit NAICS codes please see:

[https://www.bls.gov/cew/bls\\_naics/v2/bls\\_naics\\_app.htm#tab=hierarchy&naics=2017&hier=default](https://www.bls.gov/cew/bls_naics/v2/bls_naics_app.htm#tab=hierarchy&naics=2017&hier=default)

Note<sup>3</sup>: Quarters fell in 2nd quarter 2015 to 3rd Quarter 2017.

**Table 14. The history of mining UI claimants after 2nd quarter 2015<sup>2</sup> (3rd Quarter 2015 through 1st Quarter 2017.**

<b>Possibilities</b>	<b>Number of Claimants</b>	<b>Percent of Claimants</b>
Mining claimants remaining in mining in 3rd quarter 2015	426	45.2
Mining claimants remaining in mining in 4rd quarter 2015	333	35.4
Mining claimants remaining in mining in 1st quarter 2016	253	26.9
Mining claimants remaining in mining in 2nd quarter 2016	194	20.6
Mining claimants remaining in mining in 3rd quarter 2016	166	17.6
Mining claimants remaining in mining in 4th quarter 2016	140	14.9
Mining claimants remaining in mining in 1st quarter 2017	129	13.7
Mining claimants remaining in mining in 2nd quarter 2017	121	12.8
Mining claimants remaining in mining in 3rd quarter 2017	119	12.6
Mining claimants who left mining after 2nd quarter 2015, but eventually returned, 1+ more times	166	17.6
Mining claimants who left mining after 2nd quarter 2015, and only worked in other industries	183	19.4
Mining claimants who left mining after 2nd quarter 2015, and did not work afterward	194	20.6
Mining claimants who left mining after 2nd quarter 2015 and never returned to mining again	472	50.1
<b>Total<sup>1</sup></b>	<b>942</b>	

Note<sup>1</sup>: Total of Mining unemployment insurance claimants who worked in mining in 2015 2nd Quarter is 942.

Note<sup>2</sup>: The percent of the 4,481 original mining UI claimants who worked in mining in 2015 2nd Quarter is 21.0% (942), another 20.1% (935) worked in other industries, with 58.2% (2,608) unemployed (see Table 8).

Note<sup>3</sup>: Percentages do not add to 100.0% due to overlapping categories.

**Appendix C. Mining Industry Unemployment Insurance Claimant Post Filing Earnings by Year and Quarter (revised)**

<b>Table 15. Mining UI Claimants Earnings and Earnings Changes, for 2nd Quarter 2015</b>													
<small>(possible cases = 4,481; number who worked in this quarter = 1,873)</small>													
<b>Quarterly Earnings</b>													
<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
<b>5</b>	\$240	-89.7	\$220	-90.6	--	--	\$1,175	-49.6	\$1,316	-43.5	\$693	-70.3	\$2,329
<b>10</b>	\$241	-94.8	\$240	-94.8	\$240	-94.8	\$1,885	-59.0	\$1,964	-57.3	\$1,580	-65.7	\$4,601
<b>20</b>	\$922	-89.0	\$332	-96.0	\$769	-90.8	\$3,186	-61.8	\$3,564	-57.3	\$2,546	-69.5	\$8,349
<b>25</b>	\$1,280	-86.8	\$642	-93.4	\$1,095	-88.7	\$3,708	-61.6	\$4,200	-56.6	\$3,090	-68.0	\$9,668
<b>30</b>	\$1,774	-83.5	\$976	-90.9	\$1,480	-86.3	\$4,214	-60.9	\$4,770	-55.7	\$3,322	-69.2	\$10,778
<b>40</b>	\$3,063	-77.0	\$1,722	-87.0	\$2,463	-81.5	\$5,413	-59.3	\$6,168	-53.6	\$4,148	-68.8	\$13,297
<b>50</b>	\$4,621	-70.1	\$3,166	-79.5	\$4,193	-72.9	\$6,477	-58.1	\$7,101	-54.1	\$4,960	-67.9	\$15,465
<b>60</b>	\$6,355	-63.1	\$5,659	-67.1	\$5,965	-65.4	\$7,896	-54.1	\$8,520	-50.5	\$5,962	-65.4	\$17,219
<b>70</b>	\$8,128	-57.9	\$8,181	-57.6	\$7,924	-58.9	\$9,274	-51.9	\$9,869	-48.8	\$7,662	-60.3	\$19,291
<b>75</b>	\$9,067	-56.3	\$9,360	-54.9	\$8,866	-57.3	\$9,817	-52.7	\$10,861	-47.7	\$8,407	-59.5	\$20,750
<b>80</b>	\$10,205	-54.3	\$10,834	-51.5	\$9,982	-55.3	\$10,871	-51.3	\$12,339	-44.8	\$9,227	-58.7	\$22,335
<b>90</b>	\$13,576	-51.9	\$14,543	-48.4	\$13,549	-52.0	\$13,870	-50.8	\$14,747	-47.7	\$11,497	-59.2	\$28,200
<b>95</b>	\$17,506	-49.4	\$19,513	-43.6	\$17,127	-50.5	\$18,439	-46.7	\$18,919	-45.3	\$15,691	-54.6	\$34,581
<b>99</b>	\$37,723	-37.7	\$52,510	-13.3	\$39,406	-35.0	\$38,364	-36.7	\$49,351	-18.5	--	--	\$60,587
<b>Missing cases<sup>1</sup></b>	2,608		3,539		2,863		4,226		4,306		4,401		67
<b>Valid cases<sup>2</sup></b>	1,873		942		1,618		255		175		80		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter mining UI claimants who did not work in the quarter and also did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining UI claimants who were identified as having worked in this post downturn quarter and who also matched the column head category.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.



**Table 16. Mining UI Claimants Earnings and Earnings Changes, for 3rd Quarter 2015**

(possible cases = 4,481; number who worked in this quarter = 1,959)

**Quarterly Earnings**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$577	-75.2	\$1,067	-54.2	\$519	-77.7	\$1,446	-37.9	\$1,743	-25.2	\$1,114	-52.2	\$2,329
10	\$1,393	-69.7	\$2,000	-56.5	\$1,201	-73.9	\$2,285	-50.3	\$2,825	-38.6	\$2,064	-55.1	\$4,601
20	\$2,760	-66.9	\$3,705	-55.6	\$2,600	-68.9	\$3,507	-58.0	\$4,829	-42.2	\$3,083	-63.1	\$8,349
25	\$3,448	-64.3	\$4,606	-52.4	\$3,329	-65.6	\$4,051	-58.1	\$5,651	-41.6	\$3,636	-62.4	\$9,668
30	\$4,320	-59.9	\$5,757	-46.6	\$4,279	-60.3	\$4,832	-55.2	\$6,473	-39.9	\$4,055	-62.4	\$10,778
40	\$5,932	-55.4	\$7,840	-41.0	\$5,804	-56.4	\$6,526	-50.9	\$7,583	-43.0	\$5,319	-60.0	\$13,297
50	\$7,582	-51.0	\$9,200	-40.5	\$7,569	-51.1	\$7,712	-50.1	\$9,019	-41.7	\$6,864	-55.6	\$15,465
60	\$8,912	-48.2	\$10,707	-37.8	\$9,000	-47.7	\$8,748	-49.2	\$10,152	-41.0	\$8,124	-52.8	\$17,219
70	\$10,419	-46.0	\$12,723	-34.0	\$10,564	-45.2	\$9,744	-49.5	\$11,109	-42.4	\$8,772	-54.5	\$19,291
75	\$11,243	-45.8	\$13,659	-34.2	\$11,369	-45.2	\$10,493	-49.4	\$11,576	-44.2	\$9,189	-55.7	\$20,750
80	\$12,379	-44.6	\$14,813	-33.7	\$12,706	-43.1	\$11,131	-50.2	\$11,964	-46.4	\$9,832	-56.0	\$22,335
90	\$15,825	-43.9	\$18,002	-36.2	\$16,154	-42.7	\$13,014	-53.9	\$14,308	-49.3	\$12,349	-56.2	\$28,200
95	\$18,908	-45.3	\$22,419	-35.2	\$19,214	-44.4	\$16,317	-52.8	\$19,252	-44.3	\$15,421	-55.4	\$34,581
99	\$32,376	-46.6	\$44,423	-26.7	\$32,901	-45.7	\$33,306	-45.0	\$35,907	-40.7	34,583	-42.9	\$60,587
Missing cases <sup>1</sup>	2,522		3,852		2,791		4,212		4,373		4,320		67
Valid cases <sup>2</sup>	1,959		629		1,690		269		108		161		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter mining UI claimants who did not work in the quarter and also did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining UI claimants who were identified as having worked in this post downturn quarter and who also matched the column head category.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

**Table 17. Mining UI Claimants Earnings and Earnings Changes, for 4th Quarter 2015**

(possible cases = 4,481; number who worked in this quarter = 2,105)

**Quarterly Earnings**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$330	-85.8	\$80	-96.6	\$240	-89.7	\$1,363	-41.5	\$1,756	-24.6	\$1,145	-50.8	\$2,329
10	\$1,302	-71.7	\$350	-92.4	\$1,184	-74.3	\$1,833	-60.2	\$3,439	-25.3	\$1,440	-68.7	\$4,601
20	\$3,534	-57.7	\$3,100	-62.9	\$3,506	-58.0	\$3,587	-57.0	\$5,406	-35.2	\$2,465	-70.5	\$8,349
25	\$4,496	-53.5	\$4,700	-51.4	\$4,523	-53.2	\$4,199	-56.6	\$6,325	-34.6	\$3,243	-66.5	\$9,668
30	\$5,287	-50.9	\$5,726	-46.9	\$5,321	-50.6	\$4,767	-55.8	\$7,119	-33.9	\$4,018	-62.7	\$10,778
40	\$6,873	-48.3	\$7,758	-41.7	\$6,947	-47.8	\$6,316	-52.5	\$8,376	-37.0	\$5,329	-59.9	\$13,297
50	\$8,148	-47.3	\$9,714	-37.2	\$8,254	-46.6	\$7,344	-52.5	\$9,935	-35.8	\$6,425	-58.5	\$15,465
60	\$9,675	-43.8	\$11,733	-31.9	\$9,800	-43.1	\$8,545	-50.4	\$11,062	-35.8	\$7,312	-57.5	\$17,219
70	\$11,382	-41.0	\$13,765	-28.6	\$11,599	-39.9	\$10,001	-48.2	\$12,627	-34.5	\$8,293	-57.0	\$19,291
75	\$12,266	-40.9	\$14,912	-28.1	\$12,461	-39.9	\$10,900	-47.5	\$13,864	-33.2	\$9,007	-56.6	\$20,750
80	\$13,591	-39.1	\$15,861	-29.0	\$13,803	-38.2	\$12,002	-46.3	\$14,616	-34.6	\$9,877	-55.8	\$22,335
90	\$17,380	-38.4	\$19,945	-29.3	\$17,466	-38.1	\$15,297	-45.8	\$20,485	-27.4	\$12,358	-56.2	\$28,200
95	\$20,667	-40.2	\$24,213	-30.0	\$20,869	-39.7	\$19,806	-42.7	\$24,661	-28.7	\$15,142	-56.2	\$34,581
99	\$31,243	-48.4	\$38,365	-36.7	\$31,645	-47.8	\$28,906	-52.3	--	--	20,398	-66.3	\$60,587
Missing cases <sup>1</sup>	2,376		3,812		2,622		4,235		4,386		4,330		67
Valid cases <sup>2</sup>	2,105		669		1,859		246		95		151		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter mining UI claimants who did not work in the quarter and also did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining UI claimants who were identified as having worked in this post downturn quarter and who also matched the column head category.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

**Table 18. Mining UI Claimants Earnings and Earnings Changes, for 1st Quarter 2016**

(possible cases = 4,481; number who worked in this quarter = 1963)

**Quarterly Earnings**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$910	-60.9	\$1,280	-45.0	\$835	-64.1	\$1,559	-33.1	\$2,058	-11.6	\$1,209	-48.1	\$2,329
10	\$1,856	-59.7	\$2,193	-52.3	\$1,799	-60.9	\$2,246	-51.2	\$2,557	-44.4	\$2,184	-52.5	\$4,601
20	\$3,508	-58.0	\$4,524	-45.8	\$3,574	-57.2	\$3,288	-60.6	\$4,046	-51.5	\$3,021	-63.8	\$8,349
25	\$4,438	-54.1	\$5,255	-45.6	\$4,537	-53.1	\$3,760	-61.1	\$4,864	-49.7	\$3,488	-63.9	\$9,668
30	\$5,115	-52.5	\$6,061	-43.8	\$5,203	-51.7	\$4,323	-59.9	\$5,287	-50.9	\$3,853	-64.3	\$10,778
40	\$6,310	-52.5	\$7,857	-40.9	\$6,445	-51.5	\$5,352	-59.8	\$6,389	-52.0	\$4,591	-65.5	\$13,297
50	\$7,503	-51.5	\$9,270	-40.1	\$7,627	-50.7	\$6,418	-58.5	\$8,002	-48.3	\$5,775	-62.7	\$15,465
60	\$8,749	-49.2	\$10,962	-36.3	\$8,858	-48.6	\$7,965	-53.7	\$9,516	-44.7	\$7,335	-57.4	\$17,219
70	\$10,319	-46.5	\$12,762	-33.8	\$10,375	-46.2	\$9,084	-52.9	\$11,213	-41.9	\$8,241	-57.3	\$19,291
75	\$11,183	-46.1	\$13,687	-34.0	\$11,211	-46.0	\$10,554	-49.1	\$11,878	-42.8	\$8,474	-59.2	\$20,750
80	\$12,231	-45.2	\$14,972	-33.0	\$12,274	-45.0	\$11,522	-48.4	\$12,477	-44.1	\$9,389	-58.0	\$22,335
90	\$15,597	-44.7	\$18,913	-32.9	\$15,734	-44.2	\$14,488	-48.6	\$16,864	-40.2	\$13,415	-52.4	\$28,200
95	\$19,371	-44.0	\$25,029	-27.6	\$19,681	-43.1	\$16,865	-51.2	\$25,711	-25.7	\$15,567	-55.0	\$34,581
99	\$33,323	-45.0	\$44,165	-27.1	\$34,784	-42.6	\$32,725	-46.0	--	--	31,405	-48.2	\$60,587
Missing cases <sup>1</sup>	2,518		3,974		2,718		4,281		4,405		4,357		67
Valid cases <sup>2</sup>	1,963		507		1,763		200		76		124		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter mining UI claimants who did not work in the quarter and also did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining UI claimants who were identified as having worked in this post downturn quarter and who also matched the column head category.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

**Table 19. Mining UI Claimants Earnings and Earnings Changes, for 2nd Quarter 2016.**

(possible cases = 4,481; number who worked in this quarter = 1,846)

**Quarterly Earnings**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$830	-64.4	\$966	-58.5	\$803	-65.5	\$1,127	-51.6	\$2,096	-10.0	\$892	-61.7	\$2,329
10	\$1,736	-62.3	\$2,239	-51.3	\$1,736	-62.3	\$1,645	-64.2	\$2,660	-42.2	\$1,477	-67.9	\$4,601
20	\$3,644	-56.4	\$4,772	-42.8	\$3,736	-55.2	\$2,651	-68.2	\$3,411	-59.1	\$2,247	-73.1	\$8,349
25	\$4,528	-53.2	\$5,850	-39.5	\$4,619	-52.2	\$3,215	-66.7	\$4,275	-55.8	\$2,652	-72.6	\$9,668
30	\$5,246	-51.3	\$6,554	-39.2	\$5,425	-49.7	\$3,883	-64.0	\$4,939	-54.2	\$3,542	-67.1	\$10,778
40	\$6,529	-50.9	\$8,131	-38.9	\$6,696	-49.6	\$4,972	-62.6	\$6,311	-52.5	\$4,542	-65.8	\$13,297
50	\$7,631	-50.7	\$9,827	-36.5	\$7,877	-49.1	\$5,708	-63.1	\$7,457	-51.8	\$5,346	-65.4	\$15,465
60	\$8,871	-48.5	\$11,432	-33.6	\$9,147	-46.9	\$6,759	-60.7	\$8,819	-48.8	\$6,408	-62.8	\$17,219
70	\$10,489	-45.6	\$13,528	-29.9	\$10,673	-44.7	\$7,928	-58.9	\$9,871	-48.8	\$7,213	-62.6	\$19,291
75	\$11,443	-44.9	\$14,345	-30.9	\$11,640	-43.9	\$8,477	-59.1	\$11,185	-46.1	\$7,928	-61.8	\$20,750
80	\$12,432	-44.3	\$15,606	-30.1	\$12,664	-43.3	\$9,491	-57.5	\$11,940	-46.5	\$8,452	-62.2	\$22,335
90	\$15,610	-44.6	\$18,796	-33.3	\$15,745	-44.2	\$12,415	-56.0	\$15,631	-44.6	\$10,737	-61.9	\$28,200
95	\$19,117	-44.7	\$23,486	-32.1	\$19,571	-43.4	\$15,800	-54.3	\$19,298	-44.2	\$13,378	-61.3	\$34,581
99	\$29,686	-51.0	\$42,937	-29.1	\$31,149	-48.6	\$19,960	-67.1	--	--	--	--	\$60,587
Missing cases <sup>1</sup>	2,635		4,070		2,774		4,342		4,441		4,382		67
Valid cases <sup>2</sup>	1,846		411		1,707		139		40		99		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter mining UI claimants who did not work in the quarter and also did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining UI claimants who were identified as having worked in this post downturn quarter and who also matched the column head category.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

**Table 20. Mining UI Claimants Earnings and Earnings Changes, for 3rd Quarter 2016**

(possible cases = 4,481; number who worked in this quarter = 1973)

**Quarterly Earnings**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$996	-57.2	\$1,528	-34.4	\$880	-62.2	\$1,662	-28.6	\$1,591	-31.7	\$1,763	-24.3	\$2,329
10	\$2,110	-54.1	\$3,281	-28.7	\$2,042	-55.6	\$2,633	-42.8	\$3,340	-27.4	\$2,493	-45.8	\$4,601
20	\$4,346	-48.0	\$6,102	-26.9	\$4,350	-47.9	\$4,267	-48.9	\$5,941	-28.8	\$3,982	-52.3	\$8,349
25	\$5,225	-46.0	\$7,112	-26.4	\$5,259	-45.6	\$5,093	-47.3	\$6,832	-29.3	\$4,689	-51.5	\$9,668
30	\$6,103	-43.4	\$8,124	-24.6	\$6,180	-42.7	\$5,776	-46.4	\$7,618	-29.3	\$5,192	-51.8	\$10,778
40	\$7,489	-43.7	\$9,973	-25.0	\$7,616	-42.7	\$6,811	-48.8	\$8,294	-37.6	\$6,115	-54.0	\$13,297
50	\$8,579	-44.5	\$11,727	-24.2	\$8,758	-43.4	\$7,563	-51.1	\$9,493	-38.6	\$6,984	-54.8	\$15,465
60	\$10,078	-41.5	\$13,068	-24.1	\$10,244	-40.5	\$8,519	-50.5	\$10,843	-37.0	\$7,535	-56.2	\$17,219
70	\$11,816	-38.7	\$14,937	-22.6	\$11,962	-38.0	\$10,187	-47.2	\$11,875	-38.4	\$8,574	-55.6	\$19,291
75	\$12,702	-38.8	\$15,860	-23.6	\$12,868	-38.0	\$11,040	-46.8	\$12,837	-38.1	\$9,164	-55.8	\$20,750
80	\$13,876	-37.9	\$16,866	-24.5	\$14,061	-37.0	\$12,041	-46.1	\$14,637	-34.5	\$10,505	-53.0	\$22,335
90	\$17,132	-39.2	\$20,924	-25.8	\$17,318	-38.6	\$15,449	-45.2	\$17,302	-38.6	\$13,774	-51.2	\$28,200
95	\$20,548	-40.6	\$25,695	-25.7	\$20,884	-39.6	\$17,771	-48.6	\$22,930	-33.7	\$16,136	-53.3	\$34,581
99	\$30,772	-49.2	\$40,857	-32.6	\$31,198	-48.5	\$27,581	-54.5	--	--	23,145	-61.8	\$60,587
Missing cases <sup>1</sup>	2,508		4,008		2,709		4,280		4,413		4,348		67
Valid cases <sup>2</sup>	1,973		473		1,772		201		68		133		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter mining UI claimants who did not work in the quarter and also did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining UI claimants who were identified as having worked in this post downturn quarter and who also matched the column head category.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

**Table 21. Mining UI Claimants Earnings and Earnings Changes, for 4th Quarter 2016**

(possible cases = 4,481; number who worked in this quarter = 1,985.

**Quarterly Earnings**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$1,330	-42.9	\$1,480	-36.5	\$1,223	-47.5	\$1,983	-14.9	\$1,935	-16.9	\$2,176	-6.6	\$2,329
10	\$2,564	-44.3	\$3,354	-27.1	\$2,498	-45.7	\$3,189	-30.7	\$2,734	-40.6	\$3,330	-27.6	\$4,601
20	\$4,777	-42.8	\$6,370	-23.7	\$4,824	-42.2	\$4,424	-47.0	\$4,878	-41.6	\$4,322	-48.2	\$8,349
25	\$5,659	-41.5	\$7,552	-21.9	\$5,761	-40.4	\$5,126	-47.0	\$5,903	-38.9	\$4,786	-50.5	\$9,668
30	\$6,350	-41.1	\$8,692	-19.4	\$6,485	-39.8	\$5,748	-46.7	\$6,123	-43.2	\$5,255	-51.2	\$10,778
40	\$7,855	-40.9	\$10,675	-19.7	\$8,068	-39.3	\$6,527	-50.9	\$6,775	-49.0	\$6,309	-52.6	\$13,297
50	\$9,185	-40.6	\$12,343	-20.2	\$9,396	-39.2	\$7,605	-50.8	\$7,834	-49.3	\$7,249	-53.1	\$15,465
60	\$10,697	-37.9	\$14,013	-18.6	\$10,868	-36.9	\$8,589	-50.1	\$9,683	-43.8	\$8,401	-51.2	\$17,219
70	\$12,483	-35.3	\$15,493	-19.7	\$12,726	-34.0	\$10,140	-47.4	\$11,840	-38.6	\$9,271	-51.9	\$19,291
75	\$13,549	-34.7	\$16,339	-21.3	\$13,729	-33.8	\$10,951	-47.2	\$14,013	-32.5	\$9,648	-53.5	\$20,750
80	\$14,613	-34.6	\$17,130	-23.3	\$14,789	-33.8	\$12,297	-44.9	\$14,420	-35.4	\$10,885	-51.3	\$22,335
90	\$17,608	-37.6	\$21,424	-24.0	\$17,596	-37.6	\$17,857	-36.7	\$20,780	-26.3	\$13,034	-53.8	\$28,200
95	\$21,879	-36.7	\$28,270	-18.3	\$22,164	-35.9	\$20,810	-39.8	\$28,665	-17.1	\$17,108	-50.5	\$34,581
99	\$35,355	-41.6	\$46,584	-23.1	\$35,346	-41.7	\$39,118	-35.4	--	--	21,275	-64.9	\$60,587
Missing cases <sup>1</sup>	2,496		3,926		1,792	2,575	4,288		4,393		4,376		67
Valid cases <sup>2</sup>	1,985		555		2,689		193		88		105		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter mining UI claimants who did not work in the quarter and also did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining UI claimants who were identified as having worked in this post downturn quarter and who also matched the column head category.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

**Table 22. Mining UI Claimants Earnings and Earnings Changes, for 1st Quarter 2017**

(possible cases = 4,481; number who worked in this quarter = 2072)

**Quarterly Earnings**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$1,334	-42.7	\$1,394	-40.2	\$1,264	-45.7	\$2,949	26.6	\$6,606	183.6	\$2,943	26.4	\$2,329
10	\$2,610	-43.3	\$2,399	-47.9	\$2,441	-46.9	\$3,441	-25.2	\$6,606	43.6	\$3,399	-26.1	\$4,601
20	\$4,603	-44.9	\$5,981	-28.4	\$4,591	-45.0	\$4,660	-44.2	\$6,768	-18.9	\$4,601	-44.9	\$8,349
25	\$5,412	-44.0	\$7,673	-20.6	\$5,462	-43.5	\$5,343	-44.7	\$7,012	-27.5	\$5,292	-45.3	\$9,668
30	\$6,278	-41.8	\$8,436	-21.7	\$6,324	-41.3	\$5,813	-46.1	\$7,255	-32.7	\$5,708	-47.0	\$10,778
40	\$7,705	-42.1	\$10,452	-21.4	\$7,803	-41.3	\$7,067	-46.9	\$8,119	-38.9	\$7,052	-47.0	\$13,297
50	\$9,210	-40.4	\$12,126	-21.6	\$9,281	-40.0	\$8,398	-45.7	\$9,173	-40.7	\$8,319	-46.2	\$15,465
60	\$10,812	-37.2	\$13,815	-19.8	\$10,956	-36.4	\$9,666	-43.9	\$10,543	-38.8	\$9,666	-43.9	\$17,219
70	\$12,633	-34.5	\$15,965	-17.2	\$12,750	-33.9	\$11,456	-40.6	\$12,605	-34.7	\$11,382	-41.0	\$19,291
75	\$13,705	-34.0	\$17,054	-17.8	\$13,779	-33.6	\$12,395	-40.3	\$14,327	-31.0	\$12,448	-40.0	\$20,750
80	\$14,890	-33.3	\$18,515	-17.1	\$14,952	-33.1	\$13,661	-38.8	\$16,049	-28.1	\$13,661	-38.8	\$22,335
90	\$18,604	-34.0	\$22,752	-19.3	\$18,823	-33.3	\$16,902	-40.1	--	--	\$16,883	-40.1	\$28,200
95	\$22,706	-34.3	\$29,234	-15.5	\$23,240	-32.8	\$20,223	-41.5	--	--	\$20,527	-40.6	\$34,581
99	\$38,874	-35.8	\$57,881	-4.5	\$40,723	-32.8	\$24,757	-59.1	--	--	24,881	-58.9	\$60,587
Missing cases <sup>1</sup>	2,409		3,821		2,618		4,272		4,476		204		67
Valid cases <sup>2</sup>	2,072		660		1,863		209		5		4,277		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter mining UI claimants who did not work in the quarter and also did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining UI claimants who were identified as having worked in this post downturn quarter and who also matched the column head category.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

**Table 23. Mining UI Claimants Earnings and Earnings Changes, for 2nd Quarter 2017**

(possible cases = 4,481; number who worked in this quarter = 2152)

**Quarterly Earnings**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$1,831	-21.4	\$2,446	5.0	\$1,801	-22.7	\$2,155	-7.5	\$2,744	17.8	\$1,990	-14.6	\$2,329
10	\$3,340	-27.4	\$4,877	6.0	\$3,353	-27.1	\$3,209	-30.2	\$4,573	-0.6	\$2,483	-46.0	\$4,601
20	\$5,650	-32.3	\$8,125	-2.7	\$5,689	-31.9	\$5,182	-37.9	\$5,862	-29.8	\$4,322	-48.2	\$8,349
25	\$6,483	-32.9	\$9,559	-1.1	\$6,524	-32.5	\$6,203	-35.8	\$7,130	-26.3	\$5,187	-46.4	\$9,668
30	\$7,241	-32.8	\$10,586	-1.8	\$7,254	-32.7	\$7,038	-34.7	\$7,655	-29.0	\$6,270	-41.8	\$10,778
40	\$8,819	-33.7	\$12,707	-4.4	\$8,906	-33.0	\$8,005	-39.8	\$9,136	-31.3	\$7,348	-44.7	\$13,297
50	\$10,519	-32.0	\$14,190	-8.2	\$10,690	-30.9	\$9,334	-39.6	\$11,266	-27.1	\$8,095	-47.7	\$15,465
60	\$12,377	-28.1	\$15,914	-7.6	\$12,451	-27.7	\$11,377	-33.9	\$12,486	-27.5	\$9,375	-45.6	\$17,219
70	\$14,231	-26.2	\$17,422	-9.7	\$14,340	-25.7	\$12,887	-33.2	\$13,601	-29.5	\$11,080	-42.6	\$19,291
75	\$15,328	-26.1	\$18,297	-11.8	\$15,490	-25.4	\$13,621	-34.4	\$14,587	-29.7	\$12,290	-40.8	\$20,750
80	\$16,549	-25.9	\$19,301	-13.6	\$16,711	-25.2	\$14,660	-34.4	\$16,561	-25.9	\$13,562	-39.3	\$22,335
90	\$19,879	-29.5	\$24,380	-13.5	\$20,113	-28.7	\$18,050	-36.0	\$18,882	-33.0	\$16,328	-42.1	\$28,200
95	\$24,407	-29.4	\$29,011	-16.1	\$24,667	-28.7	\$21,228	-38.6	\$25,995	-24.8	\$18,084	-47.7	\$34,581
99	\$36,343	-40.0	\$46,354	-23.5	\$37,458	-38.2	\$34,797	-42.6	\$35,294	--	24,360	-59.8	\$60,587
Missing cases <sup>1</sup>	2,329		3,699		2,541		4,269		4,369		4,381		67
Valid cases <sup>2</sup>	2,152		782		1,940		212		112		100		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter mining UI claimants who did not work in the quarter and also did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining UI claimants who were identified as having worked in this post downturn quarter and who also matched the column head category.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.



**Table 24. Mining UI Claimants Earnings and Earnings Changes, for 3rd Quarter 2017**

(possible cases = 4,481; number who worked in this quarter = 2,143)

**Quarterly Earnings**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$1,285	-44.8	\$2,160	-7.2	\$1,192	-48.8	\$2,045	-12.2	\$2,219	-4.7	\$1,902	-18.3	\$2,329
10	\$2,847	-38.1	\$4,581	-0.4	\$2,743	-40.4	\$3,269	-28.9	\$3,946	-14.2	\$2,955	-35.8	\$4,601
20	\$5,620	-32.7	\$8,680	4.0	\$5,706	-31.7	\$5,377	-35.6	\$5,522	-33.9	\$4,704	-43.7	\$8,349
25	\$6,664	-31.1	\$9,951	2.9	\$6,814	-29.5	\$5,827	-39.7	\$6,137	-36.5	\$5,511	-43.0	\$9,668
30	\$7,485	-30.5	\$11,339	5.2	\$7,607	-29.4	\$6,539	-39.3	\$6,664	-38.2	\$6,441	-40.2	\$10,778
40	\$9,357	-29.6	\$12,993	-2.3	\$9,565	-28.1	\$8,029	-39.6	\$9,142	-31.2	\$7,466	-43.8	\$13,297
50	\$11,257	-27.2	\$14,558	-5.9	\$11,422	-26.1	\$9,478	-38.7	\$10,217	-33.9	\$8,508	-45.0	\$15,465
60	\$12,931	-24.9	\$16,377	-4.9	\$13,167	-23.5	\$10,911	-36.6	\$12,029	-30.1	\$10,062	-41.6	\$17,219
70	\$15,000	-22.2	\$18,062	-6.4	\$15,287	-20.8	\$12,774	-33.8	\$13,644	-29.3	\$11,860	-38.5	\$19,291
75	\$16,114	-22.3	\$19,040	-8.2	\$16,329	-21.3	\$13,546	-34.7	\$14,367	-30.8	\$12,421	-40.1	\$20,750
80	\$17,294	-22.6	\$20,521	-8.1	\$17,522	-21.5	\$14,925	-33.2	\$16,094	-27.9	\$13,333	-40.3	\$22,335
90	\$21,017	-25.5	\$25,416	-9.9	\$21,161	-25.0	\$17,452	-38.1	\$18,615	-34.0	\$16,319	-42.1	\$28,200
95	\$25,824	-25.3	\$31,807	-8.0	\$26,005	-24.8	\$21,121	-38.9	\$23,660	-31.6	\$19,637	-43.2	\$34,581
99	\$39,521	-34.8	\$47,298	-21.9	\$40,992	-32.3	\$30,906	-49.0	\$43,857	-27.6	29,971	-50.5	\$60,587
Missing cases <sup>1</sup>	2,338		3,670		2,556		4,263		4,370		4,374		67
Valid cases <sup>2</sup>	2,143		811		1,925		218		111		107		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter mining UI claimants who did not work in the quarter and also did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining UI claimants who were identified as having worked in this post downturn quarter and who also matched the column head category.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

**Appendix D. Mining Industry Unemployment Insurance Claimant Post Filing Earnings by Number of Quarters Worked (revised)**

**Table 25. Mining UI Claimant Earnings and Earnings Changes, Worked Only One Quarter**

(possible cases = 4,481; number who worked only 1 quarter = 373)

**Quarterly Earnings<sup>4</sup>**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$108	-95.4	\$100	-95.7	\$98	-95.8	\$115	-95.1	\$572	-75.4	\$115	-95.1	\$2,329
10	\$220	-95.2	\$220	-95.2	\$220	-95.2	\$161	-96.5	\$572	-87.6	\$115	-97.5	\$4,601
20	\$240	-97.1	\$240	-97.1	\$240	-97.1	\$647	-92.3	\$792	-90.5	\$281	-96.6	\$8,349
25	\$263	-97.3	\$240	-97.5	\$240	-97.5	\$853	-91.2	\$1,122	-88.4	\$531	-94.5	\$9,668
30	\$420	-96.1	\$240	-97.8	\$400	-96.3	\$1,164	-89.2	\$1,451	-86.5	\$780	-92.8	\$10,778
40	\$877	-93.4	\$612	-95.4	\$851	-93.6	\$2,300	-82.7	\$2,364	-82.2	\$1,865	-86.0	\$13,297
50	\$1,285	-91.7	\$1,101	-92.9	\$1,271	-91.8	\$3,324	-78.5	\$3,404	-78.0	\$3,243	-79.0	\$15,465
60	\$1,946	-88.7	\$1,722	-90.0	\$1,858	-89.2	\$3,632	-78.9	\$6,897	-59.9	\$3,568	-79.3	\$17,219
70	\$3,400	-82.4	\$3,163	-83.6	\$3,350	-82.6	\$7,593	-60.6	\$9,575	-50.4	\$6,480	-66.4	\$19,291
75	\$4,222	-79.7	\$4,222	-79.7	\$4,220	-79.7	\$9,663	-53.4	\$10,101	-51.3	\$10,524	-49.3	\$20,750
80	\$5,585	-75.0	\$5,787	-74.1	\$5,522	-75.3	\$10,626	-52.4	\$10,626	-52.4	\$14,567	-34.8	\$22,335
90	\$10,248	-63.7	\$12,086	-57.1	\$10,088	-64.2	\$16,634	-41.0	--	--	--	--	\$28,200
95	\$16,277	-52.9	\$18,946	-45.2	\$16,058	-53.6	--	--	--	--	--	--	\$34,581
99	\$62,007	2.3	\$120,634	99.1	\$63,677	5.1	--	--	--	--	--	--	\$60,587
Missing cases <sup>1</sup>	4,108		4,217		4,118		4,471		4,476		4,476		67
Valid cases <sup>2</sup>	373		264		363		10		5		5		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter UI mining claimants who either did not work only 1 quarter and/or did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining claimants who were identified as having worked after that quarter, for only 1 quarter and who also matched the column header.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

Note<sup>4</sup>: Quarterly earnings for post 2015 1st quarters is the arithmetic average, calculated by dividing the total afterward earnings by the number of quarters worked.

**Table 26. Mining UI Claimant Earnings and Earnings Changes, Worked Only Two Quarter**

(possible cases = 4,481; number who worked only 2 quarters = 312)

**Quarterly Earnings<sup>4</sup>**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$160	-93.1	\$160	-93.1	\$4,169	79.0	\$182	-92.2	\$353	-84.8	\$154	-93.4	\$2,329
10	\$160	-96.5	\$160	-96.5	\$160	-96.5	\$403	-91.2	\$452	-90.2	\$226	-95.1	\$4,601
20	\$626	-92.5	\$168	-98.0	\$160	-98.1	\$1,093	-86.9	\$1,018	-87.8	\$1,091	-86.9	\$8,349
25	\$1,188	-87.7	\$518	-94.6	\$505	-94.8	\$1,225	-87.3	\$1,178	-87.8	\$1,257	-87.0	\$9,668
30	\$1,521	-85.9	\$1,215	-88.7	\$1,121	-89.6	\$1,294	-88.0	\$1,255	-88.4	\$1,374	-87.3	\$10,778
40	\$2,647	-80.1	\$3,290	-75.3	\$1,712	-87.1	\$1,590	-88.0	\$1,569	-88.2	\$1,609	-87.9	\$13,297
50	\$3,844	-75.1	\$4,930	-68.1	\$3,259	-78.9	\$2,375	-84.6	\$2,470	-84.0	\$2,254	-85.4	\$15,465
60	\$5,197	-69.8	\$6,680	-61.2	\$4,739	-72.5	\$2,823	-83.6	\$2,989	-82.6	\$2,724	-84.2	\$17,219
70	\$7,284	-62.2	\$9,056	-53.1	\$5,915	-69.3	\$4,507	-76.6	\$5,206	-73.0	\$3,280	-83.0	\$19,291
75	\$7,994	-61.5	\$10,072	-51.5	\$7,725	-62.8	\$5,305	-74.4	\$6,744	-67.5	\$4,094	-80.3	\$20,750
80	\$9,205	-58.8	\$12,129	-45.7	\$8,550	-61.7	\$5,998	-73.1	\$7,468	-66.6	\$5,189	-76.8	\$22,335
90	\$13,774	-51.2	\$16,347	-42.0	\$10,054	-64.3	\$8,449	-70.0	\$13,052	-53.7	\$6,082	-78.4	\$28,200
95	\$17,235	-50.2	\$20,790	-39.9	\$14,514	-58.0	\$14,175	-59.0	\$15,576	-55.0	\$6,894	-80.1	\$34,581
99	\$28,459	-53.0	\$40,378	-33.4	\$18,147	-70.0	--	--	--	--	--	--	\$60,587
Missing cases <sup>1</sup>	4,169		4,321		33,335		4,418		4,443		4,456		67
Valid cases <sup>2</sup>	312		160		249		63		38		25		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter UI mining claimants who either did not work only 1 quarter and/or did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining claimants who were identified as having worked after that quarter, for only 1 quarter and who also matched the column header.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

Note<sup>4</sup>: Quarterly earnings for post 2015 1st quarters is the arithmetic average, calculated by dividing the total afterward earnings by the number of quarters worked.

**Table 27. Mining UI Claimant Earnings and Earnings Changes, Worked Only Three Quarter**

(possible cases = 4,481; number who worked only 3 quarters = 267)

**Quarterly Earnings<sup>4</sup>**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$1,028	-55.8	\$1,877	-19.4	\$1,851	-20.5	\$721	-69.0	\$620	-73.4	\$725	-68.9	\$2,329
10	\$1,718	-62.7	\$2,896	-37.1	\$2,450	-46.7	\$1,151	-75.0	\$1,218	-73.5	\$1,034	-77.5	\$4,601
20	\$2,618	-68.6	\$4,833	-42.1	\$4,034	-51.7	\$1,719	-79.4	\$2,009	-75.9	\$1,473	-82.4	\$8,349
25	\$2,998	-69.0	\$5,978	-38.2	\$4,560	-52.8	\$2,151	-77.8	\$2,385	-75.3	\$1,800	-81.4	\$9,668
30	\$3,778	-64.9	\$6,776	-37.1	\$4,793	-55.5	\$2,444	-77.3	\$2,606	-75.8	\$2,143	-80.1	\$10,778
40	\$4,625	-65.2	\$8,194	-38.4	\$6,121	-54.0	\$2,908	-78.1	\$2,909	-78.1	\$2,676	-79.9	\$13,297
50	\$5,510	-64.4	\$9,098	-41.2	\$7,565	-51.1	\$3,810	-75.4	\$3,846	-75.1	\$3,521	-77.2	\$15,465
60	\$7,259	-57.8	\$10,155	-41.0	\$8,539	-50.4	\$4,520	-73.8	\$4,434	-74.2	\$4,725	-72.6	\$17,219
70	\$8,434	-56.3	\$11,155	-42.2	\$10,112	-47.6	\$5,299	-72.5	\$5,030	-73.9	\$5,771	-70.1	\$19,291
75	\$9,596	-53.8	\$11,838	-43.0	\$10,609	-48.9	\$5,839	-71.9	\$5,510	-73.4	\$6,110	-70.6	\$20,750
80	\$10,430	-53.3	\$14,170	-36.6	\$11,789	-47.2	\$6,653	-70.2	\$6,780	-69.6	\$6,931	-69.0	\$22,335
90	\$13,911	-50.7	\$18,273	-35.2	\$16,842	-40.3	\$10,515	-62.7	\$10,427	-63.0	\$10,588	-62.5	\$28,200
95	\$19,163	-44.6	\$22,107	-36.1	\$21,807	-36.9	\$11,703	-66.2	\$11,714	-66.1	\$12,725	-63.2	\$34,581
99	\$31,773	-47.6		-100.0	\$39,571	-34.7	\$22,869	-62.3	--	--	--	--	\$60,587
Missing cases <sup>1</sup>	4,214		4,388		4,318		4,377		4,418		4,440		67
Valid cases <sup>2</sup>	267		99		163		104		63		41		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter UI mining claimants who either did not work only 1 quarter and/or did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining claimants who were identified as having worked after that quarter, for only 1 quarter and who also matched the column header.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

Note<sup>4</sup>: Quarterly earnings for post 2015 1st quarters is the arithmetic average, calculated by dividing the total afterward earnings by the number of quarters worked.

**Table 28. Mining UI Claimant Earnings and Earnings Changes, Worked Only Four Quarter**

(possible cases = 4,481; number who worked only 4 quarters = 192)

**Quarterly Earnings<sup>4</sup>**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$1,297	-44.3	\$2,775	19.1	\$2,174	-6.7	\$1,063	-54.4	\$910	-60.9	\$1,175	-49.6	\$2,329
10	\$2,045	-55.6	\$3,174	-31.0	\$2,813	-38.9	\$1,444	-68.6	\$1,268	-72.4	\$1,582	-65.6	\$4,601
20	\$3,269	-60.8	\$4,459	-46.6	\$3,765	-54.9	\$2,981	-64.3	\$3,038	-63.6	\$2,396	-71.3	\$8,349
25	\$3,694	-61.8	\$5,197	-46.2	\$4,368	-54.8	\$3,181	-67.1	\$3,344	-65.4	\$2,976	-69.2	\$9,668
30	\$4,025	-62.7	\$5,637	-47.7	\$5,002	-53.6	\$3,475	-67.8	\$3,759	-65.1	\$3,230	-70.0	\$10,778
40	\$4,808	-63.8	\$7,706	-42.1	\$5,859	-55.9	\$4,083	-69.3	\$4,732	-64.4	\$3,760	-71.7	\$13,297
50	\$5,696	-63.2	\$9,321	-39.7	\$7,469	-51.7	\$4,826	-68.8	\$5,170	-66.6	\$4,106	-73.5	\$15,465
60	\$7,498	-56.5	\$10,654	-38.1	\$9,183	-46.7	\$6,207	-64.0	\$7,546	-56.2	\$4,878	-71.7	\$17,219
70	\$8,999	-53.4	\$11,687	-39.4	\$10,736	-44.3	\$7,694	-60.1	\$8,791	-54.4	\$5,769	-70.1	\$19,291
75	\$10,058	-51.5	\$11,979	-42.3	\$11,659	-43.8	\$8,266	-60.2	\$9,212	-55.6	\$7,104	-65.8	\$20,750
80	\$10,907	-51.2	\$13,827	-38.1	\$12,664	-43.3	\$9,127	-59.1	\$9,806	-56.1	\$7,806	-65.1	\$22,335
90	\$14,566	-48.3	\$15,603	-44.7	\$16,863	-40.2	\$11,236	-60.2	\$12,266	-56.5	\$9,905	-64.9	\$28,200
95	\$18,606	-46.2	\$26,228	-24.2	\$19,668	-43.1	\$12,662	-63.4	\$18,914	-45.3	\$11,589	-66.5	\$34,581
99	\$36,724	-39.4		-100.0	--	--	\$20,018	-67.0	--	--	--	--	\$60,587
Missing cases <sup>1</sup>	4,289		4,430		4,391		4,379		4,424		4,436		67
Valid cases <sup>2</sup>	192		51		90		102		57		45		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter UI mining claimants who either did not work only 1 quarter and/or did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining claimants who were identified as having worked after that quarter, for only 1 quarter and who also matched the column header.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

Note<sup>4</sup>: Quarterly earnings for post 2015 1st quarters is the arithmetic average, calculated by dividing the total afterward earnings by the number of quarters worked.

**Table 29. Mining UI Claimant Earnings and Earnings Changes, Worked Only Five Quarters**

(possible cases = 4,481; number who worked only 5 quarters = 234)

**Quarterly Earnings<sup>4</sup>**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$2,306	-1.0	\$6,040	159.3	\$3,861	65.8	\$1,783	-23.4	\$1,916	-17.7	\$1,467	-37.0	\$2,329
10	\$3,534	-23.2	\$7,127	54.9	\$4,771	3.7	\$2,834	-38.4	\$3,520	-23.5	\$2,221	-51.7	\$4,601
20	\$4,778	-42.8	\$9,287	11.2	\$6,811	-18.4	\$4,003	-52.1	\$4,327	-48.2	\$3,098	-62.9	\$8,349
25	\$5,187	-46.4	\$10,228	5.8	\$7,685	-20.5	\$4,478	-53.7	\$5,085	-47.4	\$3,700	-61.7	\$9,668
30	\$5,688	-47.2	\$11,906	10.5	\$8,185	-24.1	\$5,097	-52.7	\$5,239	-51.4	\$4,270	-60.4	\$10,778
40	\$7,051	-47.0	\$14,995	12.8	\$9,358	-29.6	\$5,699	-57.1	\$6,270	-52.8	\$5,160	-61.2	\$13,297
50	\$8,389	-45.8	\$15,940	3.1	\$11,235	-27.3	\$6,639	-57.1	\$7,058	-54.4	\$5,688	-63.2	\$15,465
60	\$10,004	-41.9	\$16,548	-3.9	\$14,145	-17.9	\$8,210	-52.3	\$8,360	-51.4	\$6,277	-63.5	\$17,219
70	\$12,034	-37.6	\$18,509	-4.1	\$15,877	-17.7	\$9,741	-49.5	\$10,004	-48.1	\$9,507	-50.7	\$19,291
75	\$13,567	-34.6	\$19,063	-8.1	\$16,505	-20.5	\$10,650	-48.7	\$11,303	-45.5	\$10,152	-51.1	\$20,750
80	\$15,004	-32.8	\$19,489	-12.7	\$17,424	-22.0	\$12,248	-45.2	\$12,887	-42.3	\$11,047	-50.5	\$22,335
90	\$17,561	-37.7	\$22,140	-21.5	\$19,653	-30.3	\$15,058	-46.6	\$15,709	-44.3	\$14,337	-49.2	\$28,200
95	\$20,646	-40.3	\$36,191	4.7	\$22,697	-34.4	\$17,372	-49.8	\$17,641	-49.0	\$16,123	-53.4	\$34,581
99	\$39,418	-34.9	--	--	--	--	\$27,461	-54.7	--	--	--	--	\$60,587
Missing cases <sup>1</sup>	4,247		4,432		4,388		4,340		4,382		4,439		67
Valid cases <sup>2</sup>	234		49		93		141		99		42		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter UI mining claimants who either did not work only 1 quarter and/or did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining claimants who were identified as having worked after that quarter, for only 1 quarter and who also matched the column header.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

Note<sup>4</sup>: Quarterly earnings for post 2015 1st quarters is the arithmetic average, calculated by dividing the total afterward earnings by the number of quarters worked.

**Table 30. Mining UI Claimant Earnings and Earnings Changes, Worked Only Six Quarters**

(possible cases = 4,481; number who worked only all 6 quarters = 204)

**Quarterly Earnings<sup>4</sup>**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$2,226	-4.4	\$2,298	-1.3	\$2,175	-6.6	\$2,230	-4.3	\$2,623	12.6	\$2,167	-7.0	\$2,329
10	\$2,893	-37.1	\$2,891	-37.2	\$2,897	-37.0	\$2,855	-38.0	\$3,272	-28.9	\$2,336	-49.2	\$4,601
20	\$4,162	-50.2	\$6,092	-27.0	\$4,646	-44.4	\$4,018	-51.9	\$4,167	-50.1	\$3,195	-61.7	\$8,349
25	\$4,860	-49.7	\$7,187	-25.7	\$5,547	-42.6	\$4,337	-55.1	\$5,109	-47.2	\$3,922	-59.4	\$9,668
30	\$5,363	-50.2	\$8,008	-25.7	\$5,879	-45.5	\$5,129	-52.4	\$5,415	-49.8	\$4,473	-58.5	\$10,778
40	\$6,164	-53.6	\$9,797	-26.3	\$6,931	-47.9	\$5,843	-56.1	\$6,537	-50.8	\$5,161	-61.2	\$13,297
50	\$7,341	-52.5	\$10,532	-31.9	\$8,205	-46.9	\$6,774	-56.2	\$8,170	-47.2	\$5,678	-63.3	\$15,465
60	\$8,431	-51.0	\$11,625	-32.5	\$9,614	-44.2	\$8,000	-53.5	\$9,130	-47.0	\$6,388	-62.9	\$17,219
70	\$9,894	-48.7	\$12,351	-36.0	\$10,810	-44.0	\$9,097	-52.8	\$10,321	-46.5	\$7,220	-62.6	\$19,291
75	\$10,514	-49.3	\$13,800	-33.5	\$11,313	-45.5	\$9,749	-53.0	\$10,648	-48.7	\$7,381	-64.4	\$20,750
80	\$11,273	-49.5	\$14,695	-34.2	\$11,923	-46.6	\$10,425	-53.3	\$11,309	-49.4	\$7,643	-65.8	\$22,335
90	\$13,528	-52.0	\$17,244	-38.9	\$14,970	-46.9	\$12,573	-55.4	\$13,436	-52.4	\$9,257	-67.2	\$28,200
95	\$15,524	-55.1	\$20,849	-39.7	\$19,618	-43.3	\$13,855	-59.9	\$16,693	-51.7	\$12,483	-63.9	\$34,581
99	\$24,545	-59.5	--	--	--	--	\$23,574	-61.1	--	--	--	--	\$60,587
Missing cases <sup>1</sup>	4,277		4,441		4,400		4,358		4,400		4,439		67
Valid cases <sup>2</sup>	204		40		81		123		81		42		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter UI mining claimants who either did not work only 1 quarter and/or did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining claimants who were identified as having worked after that quarter, for only 1 quarter and who also matched the column header.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

Note<sup>4</sup>: Quarterly earnings for post 2015 1st quarters is the arithmetic average, calculated by dividing the total afterward earnings by the number of quarters worked.

**Table 31. Mining UI Claimant Earnings and Earnings Changes, Worked Only Seven Quarters**

(possible cases = 4,481; number who worked only all 6 quarters = 261)

**Quarterly Earnings<sup>4</sup>**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$2,665	14.4	\$6,662	186.0	\$4,220	81.2	\$2,042	-12.3	\$2,761	18.6	\$1,699	-27.0	\$2,329
10	\$3,665	-20.3	\$7,481	62.6	\$4,899	6.5	\$3,350	-27.2	\$3,416	-25.8	\$2,887	-37.3	\$4,601
20	\$4,771	-42.9	\$8,966	7.4	\$5,322	-36.3	\$4,182	-49.9	\$4,381	-47.5	\$3,862	-53.7	\$8,349
25	\$5,257	-45.6	\$9,733	0.7	\$6,452	-33.3	\$4,550	-52.9	\$4,822	-50.1	\$4,027	-58.3	\$9,668
30	\$5,819	-46.0	\$10,020	-7.0	\$6,789	-37.0	\$4,890	-54.6	\$5,701	-47.1	\$4,523	-58.0	\$10,778
40	\$6,724	-49.4	\$11,146	-16.2	\$7,691	-42.2	\$6,085	-54.2	\$6,624	-50.2	\$5,427	-59.2	\$13,297
50	\$7,924	-48.8	\$12,181	-21.2	\$8,774	-43.3	\$7,267	-53.0	\$7,567	-51.1	\$6,072	-60.7	\$15,465
60	\$8,881	-48.4	\$12,902	-25.1	\$9,984	-42.0	\$8,085	-53.0	\$8,486	-50.7	\$7,428	-56.9	\$17,219
70	\$10,008	-48.1	\$13,622	-29.4	\$11,421	-40.8	\$9,125	-52.7	\$9,551	-50.5	\$8,208	-57.5	\$19,291
75	\$11,060	-46.7	\$14,383	-30.7	\$12,510	-39.7	\$9,655	-53.5	\$10,208	-50.8	\$8,903	-57.1	\$20,750
80	\$12,158	-45.6	\$15,137	-32.2	\$13,035	-41.6	\$10,534	-52.8	\$11,056	-50.5	\$9,653	-56.8	\$22,335
90	\$13,747	-51.3	\$17,480	-38.0	\$13,640	-51.6	\$12,768	-54.7	\$13,047	-53.7	\$10,962	-61.1	\$28,200
95	\$17,375	-49.8	\$19,322	-44.1	\$16,253	-53.0	\$16,664	-51.8	\$17,435	-49.6	\$13,477	-61.0	\$34,581
99	\$23,299	-61.5	--	--	\$17,670	-70.8	\$23,048	-62.0	\$23,840	-60.7	--	--	\$60,587
Missing cases <sup>1</sup>	4,220		4,440		4,400		4,301		4,365		4,417		67
Valid cases <sup>2</sup>	261		41		81		180		116		64		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter UI mining claimants who either did not work only 1 quarter and/or did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining claimants who were identified as having worked after that quarter, for only 1 quarter and who also matched the column header.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

Note<sup>4</sup>: Quarterly earnings for post 2015 1st quarters is the arithmetic average, calculated by dividing the total afterward earnings by the number of quarters worked.



**Table 32. Mining UI Claimant Earnings and Earnings Changes, Worked Only Eight Quarters**

(possible cases = 4,481; number who worked only all 6 quarters = 331)

**Quarterly Earnings<sup>4</sup>**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$3,168	36.0	\$5,707	145.0	\$2,164	-7.1	\$3,275	40.6	\$3,298	41.6	\$2,918	25.3	\$2,329
10	\$3,845	-16.4	\$6,932	50.7	\$4,227	-8.1	\$3,588	-22.0	\$4,107	-10.7	\$3,517	-23.6	\$4,601
20	\$5,117	-38.7	\$8,989	7.7	\$5,851	-29.9	\$4,845	-42.0	\$5,570	-33.3	\$4,456	-46.6	\$8,349
25	\$5,761	-40.4	\$9,812	1.5	\$6,322	-34.6	\$5,419	-44.0	\$6,402	-33.8	\$4,609	-52.3	\$9,668
30	\$6,286	-41.7	\$10,471	-2.8	\$6,902	-36.0	\$5,938	-44.9	\$6,868	-36.3	\$4,822	-55.3	\$10,778
40	\$7,253	-45.5	\$12,073	-9.2	\$7,493	-43.6	\$7,010	-47.3	\$7,510	-43.5	\$5,804	-56.4	\$13,297
50	\$7,859	-49.2	\$12,979	-16.1	\$8,709	-43.7	\$7,774	-49.7	\$8,134	-47.4	\$6,650	-57.0	\$15,465
60	\$8,752	-49.2	\$15,665	-9.0	\$10,052	-41.6	\$8,526	-50.5	\$9,002	-47.7	\$7,631	-55.7	\$17,219
70	\$10,094	-47.7	\$20,265	5.1	\$12,245	-36.5	\$9,700	-49.7	\$10,160	-47.3	\$8,510	-55.9	\$19,291
75	\$10,770	-48.1	\$24,094	16.1	\$12,704	-38.8	\$10,182	-50.9	\$10,883	-47.6	\$8,842	-57.4	\$20,750
80	\$11,821	-47.1	\$26,420	18.3	\$14,350	-35.8	\$10,782	-51.7	\$11,827	-47.0	\$9,845	-55.9	\$22,335
90	\$15,121	-46.4	\$39,155	38.8	\$20,266	-28.1	\$13,282	-52.9	\$14,394	-49.0	\$10,736	-61.9	\$28,200
95	\$19,656	-43.2	\$62,130	79.7	\$31,653	-8.5	\$17,074	-50.6	\$17,790	-48.6	\$14,070	-59.3	\$34,581
99	\$37,166	-38.7	--	--	--	--	\$22,418	-63.0	\$23,732	-60.8	--	--	\$60,587
Missing cases <sup>1</sup>	4,150		4,453		4,387		4,244		4,328		4,397		67
Valid cases <sup>2</sup>	331		28		94		237		153		84		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter UI mining claimants who either did not work only 1 quarter and/or did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining claimants who were identified as having worked after that quarter, for only 1 quarter and who also matched the column header.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

Note<sup>4</sup>: Quarterly earnings for post 2015 1st quarters is the arithmetic average, calculated by dividing the total afterward earnings by the number of quarters worked.

**Table 33. Mining UI Claimant Earnings and Earnings Changes, Worked Only Nine Quarters**

(possible cases = 4,481; number who worked only all 6 quarters = 452)

**Quarterly Earnings<sup>4</sup>**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$4,315	85.3	\$5,364	130.3	\$5,434	133.3	\$4,013	72.3	\$4,402	89.0	\$3,276	40.7	\$2,329
10	\$5,084	10.5	\$7,646	66.2	\$5,892	28.1	\$4,724	2.7	\$5,170	12.4	\$4,294	-6.7	\$4,601
20	\$6,087	-27.1	\$8,739	4.7	\$7,735	-7.4	\$5,829	-30.2	\$6,233	-25.3	\$5,287	-36.7	\$8,349
25	\$6,674	-31.0	\$9,420	-2.6	\$8,041	-16.8	\$6,212	-35.7	\$6,771	-30.0	\$5,769	-40.3	\$9,668
30	\$7,263	-32.6	\$10,060	-6.7	\$8,775	-18.6	\$6,737	-37.5	\$7,081	-34.3	\$5,960	-44.7	\$10,778
40	\$8,233	-38.1	\$12,257	-7.8	\$9,636	-27.5	\$7,773	-41.5	\$8,164	-38.6	\$7,166	-46.1	\$13,297
50	\$9,302	-39.9	\$13,235	-14.4	\$10,634	-31.2	\$8,748	-43.4	\$9,203	-40.5	\$8,086	-47.7	\$15,465
60	\$10,210	-40.7	\$13,742	-20.2	\$12,208	-29.1	\$9,755	-43.4	\$10,203	-40.7	\$8,898	-48.3	\$17,219
70	\$11,317	-41.3	\$14,494	-24.9	\$13,321	-30.9	\$10,786	-44.1	\$11,158	-42.2	\$9,927	-48.5	\$19,291
75	\$12,071	-41.8	\$14,654	-29.4	\$13,963	-32.7	\$11,250	-45.8	\$11,477	-44.7	\$10,795	-48.0	\$20,750
80	\$12,675	-43.2	\$16,235	-27.3	\$14,413	-35.5	\$11,803	-47.2	\$12,102	-45.8	\$11,255	-49.6	\$22,335
90	\$15,014	-46.8	\$22,037	-21.9	\$16,861	-40.2	\$14,125	-49.9	\$14,343	-49.1	\$13,848	-50.9	\$28,200
95	\$18,042	-47.8	\$26,413	-23.6	\$22,078	-36.2	\$16,816	-51.4	\$17,315	-49.9	\$16,328	-52.8	\$34,581
99	\$27,039	-55.4	--	--	\$27,128	-55.2	\$27,466	-54.7	\$23,518	-61.2	34,651	-42.8	\$60,587
Missing cases <sup>1</sup>	4,029		4,434		4,357		4,153		4,277		4,357		67
Valid cases <sup>2</sup>	452		47		124		328		204		124		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter UI mining claimants who either did not work only 1 quarter and/or did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining claimants who were identified as having worked after that quarter, for only 1 quarter and who also matched the column header.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

Note<sup>4</sup>: Quarterly earnings for post 2015 1st quarters is the arithmetic average, calculated by dividing the total afterward earnings by the number of quarters worked.

**Table 34. Mining UI Claimant Earnings and Earnings Changes, Worked all Ten Quarters**

(possible cases = 4,481; number who worked only all 6 quarters = 656)

**Quarterly Earnings<sup>4</sup>**

<b>Earnings Percentiles</b>	<b>All Industries</b>	<b>All Industries % change from Past Mining</b>	<b>Mining Only entire Quarter</b>	<b>Mining Only % change from Past Mining</b>	<b>Worked in Same Industry all Quarter</b>	<b>Worked in Same Industry all Quarter % change from Past Mining</b>	<b>Worked in Mixed Industries</b>	<b>Worked in Mixed Industries % change from Past Mining</b>	<b>Worked in Mixed Industries with Mining</b>	<b>Worked in Mixed Industries with Mining % change from Past Mining</b>	<b>Worked in Mixed Industries without Mining</b>	<b>Worked in Mixed Industries without Mining % change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$4,497	93.1	\$5,527	137.3	\$4,889	109.9	\$4,356	87.0	\$4,491	92.8	\$4,136	77.6	\$2,329
10	\$5,704	24.0	\$6,691	45.4	\$6,016	30.8	\$5,416	17.7	\$5,783	25.7	\$4,718	2.5	\$4,601
20	\$7,236	-13.3	\$8,633	3.4	\$7,792	-6.7	\$7,120	-14.7	\$7,277	-12.8	\$6,357	-23.9	\$8,349
25	\$7,773	-19.6	\$9,334	-3.4	\$8,334	-13.8	\$7,437	-23.1	\$7,775	-19.6	\$7,041	-27.2	\$9,668
30	\$8,241	-23.5	\$9,819	-8.9	\$9,067	-15.9	\$7,995	-25.8	\$8,252	-23.4	\$7,308	-32.2	\$10,778
40	\$9,363	-29.6	\$11,037	-17.0	\$9,886	-25.7	\$9,011	-32.2	\$9,445	-29.0	\$8,225	-38.1	\$13,297
50	\$10,428	-32.6	\$12,219	-21.0	\$10,969	-29.1	\$10,050	-35.0	\$10,581	-31.6	\$9,232	-40.3	\$15,465
60	\$11,688	-32.1	\$12,932	-24.9	\$12,237	-28.9	\$11,449	-33.5	\$11,861	-31.1	\$10,092	-41.4	\$17,219
70	\$12,825	-33.5	\$14,399	-25.4	\$13,131	-31.9	\$12,584	-34.8	\$13,001	-32.6	\$11,544	-40.2	\$19,291
75	\$13,799	-33.5	\$15,053	-27.5	\$14,144	-31.8	\$13,463	-35.1	\$14,356	-30.8	\$11,950	-42.4	\$20,750
80	\$14,859	-33.5	\$15,829	-29.1	\$15,171	-32.1	\$14,660	-34.4	\$15,137	-32.2	\$13,600	-39.1	\$22,335
90	\$17,953	-36.3	\$19,874	-29.5	\$19,139	-32.1	\$17,598	-37.6	\$18,595	-34.1	\$16,604	-41.1	\$28,200
95	\$21,497	-37.8	\$31,042	-10.2	\$23,078	-33.3	\$21,226	-38.6	\$22,207	-35.8	\$19,374	-44.0	\$34,581
99	\$37,183	-38.6	\$46,440	-23.4	\$37,816	-37.6	\$37,216	-38.6	\$37,383	-38.3	49,458	-18.4	\$60,587
Missing cases <sup>1</sup>	3,825		4,359		4,249		4,057		4,190		4,348		67
Valid cases <sup>2</sup>	656		122		232		424		291		133		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter UI mining claimants who either did not work only 1 quarter and/or did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining claimants who were identified as having worked after that quarter, for only 1 quarter and who also matched the column header.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

Note<sup>4</sup>: Quarterly earnings for post 2015 1st quarters is the arithmetic average, calculated by dividing the total afterward earnings by the number of quarters worked.

**Table 35. Typical Mining UI Claimant Earnings in 3rd Quarter 2017  
Compared to Past Mining Earnings.**

<b>Earnings Percentiles</b>	<b>Typical UI Claimant Earnings (single non-mining industry)<sup>4</sup></b>	<b>Typical UI Claimant Earnings change from Past Mining</b>	<b>Past Mining<sup>3</sup> entire Quarter</b>
5	\$832	-64.3	\$2,329
10	\$1,830	-60.2	\$4,601
20	\$4,754	-43.1	\$8,349
25	\$5,643	-41.6	\$9,668
30	\$6,424	-40.4	\$10,778
40	\$7,800	-41.3	\$13,297
50	\$9,251	-40.2	\$15,465
60	\$10,837	-37.1	\$17,219
70	\$12,433	-35.6	\$19,291
75	\$13,541	-34.7	\$20,750
80	\$14,895	-33.3	\$22,335
90	\$17,805	-36.9	\$28,200
95	\$21,025	-39.2	\$34,581
99	\$30,767	-49.2	\$60,587
Missing cases <sup>1</sup>	3,367		67
Valid cases <sup>2</sup>	1,114		4,414

Note<sup>1</sup>: Missing cases are the 2015 1st quarter mining UI claimants who did not work in the quarter and also did not match the column head category.

Note<sup>2</sup>: Valid cases are the 2015 1st quarter mining UI claimants who were identified as having worked in this post downturn quarter and who also matched the column head category.

Note<sup>3</sup>: This column is the pre-downturn percentile earnings for the 4,414 cases of 2015 1st quarter mining UI claimants who were identified as having worked a previous entire quarter in mining only.

Note<sup>4</sup>: In the 3rd Quarter 2017 811 case worked in mining, with the majority of working cases or 1,114 worked in a single non-mining industry.