# ARIZONA WAGE STATISTICS AND COPPER OUTPUT BASE PERIOD (1947-1949) COMPARED WITH PERIOD (1961-1963) 

## COMPILED BY

## ARIZONA DEPARTMENT OF MINERAL RESOURCES

FAIRGROUNDS, PHOENIX ARIZONA

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Source: Arizona Employment Security Commission
U. S. Department of Labor
U. S. Bureau of Mines

# WAGE STATISTICS AND COPPER OUTPUT <br> ARIZONA AND UNITED STATES COPPER MINES 

Base Period (1947-1949) Compared with 1961-1963 Period
Source: Arizona Employment Security Commission; U. S. Dept. of Labor; U. S. Bureau of Mines

The Arizona Department of Mineral Resources has recently compiled several tables of wage statistics and copper output of Arizona capper mines, comparing them with wages paid in other major industries in Arizona and the United States.

The base period of 1947-1949 has been used in making the comparison because that is the period used by the U.S. Department of Labor in determining the Consumer Price Index (or Cost of Living). At the present time, the base period of 1957-1959 is being used by the Department of Labor, but this study has retained the old base period for comparison purposes.

As in the previous reports, this Department has shown that hourly wage-rates in the copper mining industry have been increased annually at a much greater rate than the Consumer Price Index. For example, the Hourly Earnings Index in Arizona copper mining for 1963 has increased 109.7 per cent over the base period, while the Consumer Price Index has increased only 31.0 per cent. During the same period the Hourly Earnings Index in U. S. copper mining has increased 102.0 per cent.

Incidentally, it might be noted that the hourly earnings in copper mining in Arizona for the base period were reported to be $\$ 1.432$ as compared with $\$ 1.431$ for U. S. copper mining, as reported by the U. S. Department of Labor "Enployment and Earnings." For the year 1963, comparative figures $\$ 3.003$ for Arizona and $\$ 2.891$ for the United States. This is cited because of the general belief that there has been a wage differential in favor of the Northern States over Arizona.

In the copper mining industry, productivity would be based on the total output of copper and the measure of it would be pounds of copper produced per man-hour of labor. Responsibility for any change in productivity need not be the miner's labor alone. Improvements in technology and mechanical equipment are probably more important factors. The only reason the man-hour unit is used is because labor is the biggest factor in the cost of producing copper, and it is therefore a good practical measure, serving to indicate whether productivity is keeping up with rising costs, thus checking inflationary tendencies.

As mentioned in previous reports, it has been generally believed that real wages of labor cannot rise faster than real output. In other words, we cannot get more out of the economy than we produce. It has been shown that since World War II, real output, or productivity, in general has been growing at an average of only 2 to 3 per cent a year - while wages, on the average, have been climbing 6 to 7 per cent a year.

In this year's study of the copper mining industry, a comparison was made between the three-year base period (1947-1949) and the latest three-year period (1961-1963). Because the by-products of gold and silver, produced with the copper,
are factors in determining the miner's output, the total value of metal produced has been coverted into pounds of copper at the average copper price. Preliminary figures for the 1963 production of copper, gold and silver from copper ores in Arizona and the United States were used in obtaining the three year averages for the 1961-1963 period.

The study shows that in Arizona the pounds of equivalent copper produced per man-hour was 29.9901 in the base period, as compared with 40.0834 pounds in the 1961-1963 period, or a total increase in productivity of $33.65 \%$ for the 14-year period or $2.40 \%$ per year. The hourly earnings for the base period were $\$ 1.432$, and for the 1961-1963 period were $\$ 2.914$, or a total increase of $103.49 \%$ or $7.39 \%$ per year.

Corresponding figures for the United States copper mining industry were 26,1639 pounds of equivalent copper produced per man-hour in the base period, as compared with 32.9439 pounds in the 1961-1963 period, or a total increase of $41.59 \%$ an average of $2.97 \%$ per year. The hourly earnings were $\$ 1.431$ in the base period, and $\$ 2.813$ in the 1961-1963 period, a total increase of $96.58 \%$ or $6.90 \%$ per year.

The total covered employment in copper mining in Arizona in 1963, according to the Employment Security Commission, amounted to 14,303 employees with wages amounting to $\$ 104,291,588$. This item included the employees at Kennecott's copper smelter at Hayden. Additional copper smelter employees at seven other copper smelters averaged 1817 employees in 1963, and were classified under "Manufacturing." Their wages in 1963 amounted to $\$ 12,144,000$. This makes a grand total, for copper mining, milling and smelting of 16,120 covered employees and $\$ 116,435,588$ covered wages in the copper industry of Arizona.

This report does not include fringe benefits, which, in another study by this Department in 1959, were estimated to average $25 \%$ of the payroll. It has undoubtedly been higher in 1963. With a copper industry payroll of $\$ 116,435,588$ in 1963, fringe benefits would add more than $\$ 29$ million to labor costs for the year.

## TABLE I

## ESTIMATED HOURS AND EARNINGS IN SELECTED INDUSTRIES IN ARIZONA

XEAR 1963
Source: "Arizona Current Employment" Employment Security Commission
These estimates are based upon a samplc of full and part-time production and related employees whose payroll and hours are reported for the pay period ending the 15 th of the month.

| 1963 | Average Emp loyment | Average <br> Weekly <br> Earnings | Average <br> Weekly <br> Hours 1/ | Average Hourly Earnings 2/ | Base <br> Hourly <br> Rate 3/ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Copper Mining 4/ | 13,393 | 133.81 | 44.56 | \$ 3.003 | \$ 2.857 |
| Manufacturing (total) | 57,183 | 108.06 | 40.44 | 2.672 | 2.658 |
| Copper Smelting 5/ | 1,817 | 128.53 | 44.73 | 2.874 | 2.729 |
| Excl. Smelting | 55,366 | 107.19 | 40.30 | 2.665 | 2.656 |
| Contract Construction | 28,508 | 151.75 | 36.94 | 4.108 | 4.108 |
| Utilities | 24,975 | 110.68 | 41.13 | 2.691 | 2.655 |
| Retail Trade | 72,383 | 75.08 | 39.56 | 1.897 | 1.897 |
| Wholesale Trade | 17,575 | 105.95 | 41.38 | 2.532 | 2.519 |

1/ Actual hours worked.
2/ Includes overtime earnings.
3/ Base hourly rate is a straight time rate, and is obtained by dividing the "Weekly Earnings" by the "Weekly Hours" plus $50 \%$ of the excess hours over 40 hours.

4/ Includes smelter employees at Kennecott's Hayden smelter.
5/ Includes smelter employees at all smelters except Kennecott's.

## OTHER NON-AGRICULTURE EMPLOYMENT *



TABLE II
MONTHLY STATISTICS IN 1963 OF EMPLOYMENT, WEEKLY EARNINGS, WEEKIY HOURS AND HOURLY EARNINGS IN COPPER MINING, COPPER SMEITING, MANUFACTURING, CONTRACT CONSTRUCTION, UTILITIES, WHOLESALE AND RETAIL TRADE

Source: Arizona Employment Security Commission

| 1963 COPPER MINING: | Employment | Avg. Weekly Earnings | Avg. Weekly Hours | Avg. Hourly Earnings |
| :---: | :---: | :---: | :---: | :---: |
| (Includes Kennecott's |  |  |  |  |
| Copper Smelti |  |  |  |  |
| January | 13,400 | \$ 128.48 | 44.0 | \$ 2.92 |
| February | 13,400 | 130.83 | 44.5 | 2.94 |
| March | 13,500 | 138.30 | 46.1 | 3.00 |
| April | 13,500 | 135.43 | 45.6 | 2.97 |
| May | 13,500 | 131.28 | 44.5 | 2.95 |
| June | 13,600 | 130.83 | 44.2 | 2.96 |
| July | 13,300 | 128.77 | 43.8 | 2.94 |
| August | 13,200 | 135.28 | 44.5 | 3.04 |
| September | 13,400 | 133.32 | 44.0 | 3.03 |
| October | 13,300 | 141.50 | 45.5 | 3.11 |
| November | 13,200 | 139.64 | 44.9 | 3.11 |
| December | 13,400 | 132.32 | 43.1 | 3.07 |
| AVERAGE | 13,393 | \$ 133.81 | 44.56 | \$ 3.003 |
| COPPER SMELTING (Included under Manufacturing) All copper smelters except Kennecott's |  |  |  |  |
| January | 1,841 | \$ 125.04 | 44.5 | \$ 2.81 |
| February | 1,827 | 124.32 | 44.4 | 2.80 |
| March | 1,824 | 133.85 | 46.8 | 2.86 |
| April | 1,834 | 129.96 | 45.6 | 2.85 |
| May | 1,823 | 129.50 | 45.6 | 2.84 |
| June | 1,850 | 129.68 | 45.5 | 2.85 |
| July | 1,839 | 130.37 | 44.8 | 2.91 |
| August | 1,789 | 127.75 | 43.9 | 2.91 |
| September | 1,819 | 125.13 | 43.0 | 2.91 |
| October | 1,786 | 130.97 | 44.7 | 2.93 |
| November | 1,790 | 128.63 | 43.9 | 2.93 |
| December | 1,785 | 127.16 | 44.0 | 2.89 |
| AVERAGE | 1,817 | \$ 128.53 | 44.73 | \$ 2.874 |
| TOTAL MANUFACTURING (Includes all copper smelters except Kennecott's) |  |  |  |  |
| January | 56,000 | \$ 105.86 | 40.1 | 2.64 |
| February | 56,100 | 105.85 | 40.4 | 2.62 |
| March. | 57,100 | 105.85 | 40.4 | 2.62 |
| April | 57,300 | 104,80 | 40.0 | 2.62 |
| May | 57,700 | 105.32 | 40.2 | 2.62 |
| June | 58,000 | 106.00 | 40.0 | 2.65 |
| July | 57,300 | 106.93 | 40.2 | 2.66 |
| August | 57,300 | 109.48 | 40.7 | 2.69 |
| September | 56,800 | 111.52 | 40.7 | 2.74 |
| October | 57,100 | 112.34 | 41.0 | 2.74 |
| November | 57,600 | 111.24 | 40.6 | 2.74 |
| December | 57,900 | 111.52 | 41.0 | 2.72 |
| AVERAGE | 57,183 | 108.06 | 40.44 | 2.672 |


| CONTRAGT CONSTRUCTION: | Employment | Avg. Weekly <br> Earnings |  | Avg. Weekly Hours | Avg. Hourly Earnings |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 29,800 | \$ | 150.47 | 36.7 |  | 4.10 |
| February | 29,300 |  | 151. 11 | 36.5 |  | 4.14 |
| March | 29,900 |  | 153.22 | 37.1 |  | 4.13 |
| April | 29,800 |  | 153.38 | 37.5 |  | 4.09 |
| May | 29,200 |  | 152.76 | 38.0 |  | 4.02 |
| June | 28,700 |  | 157.54 | 38.9 |  | 4.05 |
| July | 28,900 |  | 152.93 | 37.3 |  | 4.10 |
| August | 27,000 |  | 158.88 | 38.1 |  | 4.17 |
| September | 27,400 |  | 153.26 | 37.2 |  | 4.12 |
| October | 27,400 |  | 151.94 | 36.7 |  | 4.14 |
| November | 27,300 |  | 133.40 | 32.3 |  | 4.13 |
| December | 27,400 |  | 152.07 | 37.0 |  | 4.11 |
| AVERAGE | 28,508 | \$ | 151.75 | 36.94 | \$ | 4.108 |
| UTILITIES: |  |  |  |  |  |  |
| January | 24, 500 | \$ | 109.71 | 41.4 | \$ | 2.65 |
| February | 24,500 |  | 108.26 | 40.7 |  | 2.66 |
| March | 24,400 |  | 109.59 | 41.2 |  | 2.66 |
| April | 24,600 |  | 108.92 | 41.1 |  | 2.65 |
| May | 24,800 |  | 108.94 | 40.8 |  | 2.67 |
| June | 25,300 |  | 109.20 | 40.9 |  | 2.67 |
| July | 25,300 |  | 110.12 | 41.4 |  | 2.66 |
| August | 25,500 |  | 110.15 | 41.1 |  | 2.68 |
| September | 24,900 |  | 112.19 | 41.4 |  | 2.71 |
| October | 25,100 |  | 113.16 | 41.0 |  | 2.76 |
| November | 25,300 |  | 115.23 | 41.9 |  | 2.75 |
| December | 25,500 |  | 112.74 | 40.7 |  | 2.77 |
| AVERAGE | 24,975 | \$ | 110.68 | 41.13 | \$ | 2.691 |



## ESTIMATED HOURS AND EARNINGS IN SELECTED INDUSTRIES IN ARIZONA

These estimates are based upon a sample of full and part-time production and related employees whose payroll and hours are reported for the pay period ending nearest the 15 th of the month.

Prepared by Arizona Employment Security Commission in co-operation with the U. S. Bureau of Labor Statistics.


1/ Beginning July 1952, Manufacturing includes aircraft modification operations. Manufacturing includes copper smelting at all copper smelters except Kennecott's.

2/ Copper Mining includes copper smelting at Kennecott's Hayden smelter.

TABLE IV

COMPARISON OF AVERAGE NUMBER OF EMPLOYEES - WEEKLY EARNINGS WEEKLY HOURS AND HOURLY EARNINGS OF EMPLOYEES IN SELECTED INDUSTRIES OF THE UNITED STATES AND STATE OF ARIZONA

YEAR 1963
Source: Arizona Employment Security Commission.
U. S. Department of Labor "Employment and Earnings," February, 1963.

| Year 1963 | Number Emp loyees | Avg. <br> Weekly Earnings | ```Avg. Weekly Hours``` |  | Avg. <br> Hourly <br> Earnings |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Copper Mining - United States | 27,800 | \$ 124.48 | 43.06 | \$ | 2.891 |
| " " - Arizona | 13,393 | 133.81 | 44.56 |  | 3.003 |
| Manufacturing - United States | 16,962,000 | 99.40 | 40.44 |  | 2.458 |
| " " - Arizona | 57,183 | 108.06 | 40.44 |  | 2.672 |
| Contract Construction - <br> United States | 2,901,000 | 127.67 | 37.22 |  | 3.408 |
| " " - Arizona | 28,508 | 151.75 | 36.92 |  | 4.108 |
| Retail Trade - United States | 8,652,500 | 68.15 | 37.8 |  | 1.8025 |
| " " - Arizona | 72,383 | 75.08 | 39.57 |  | 1.898 |
| Wholesale Trade - United States | 3,137,600 | 99.49 | 40.50 |  | 2.4525 |
| " " - Arizona | 17,575 | 105.36 | 41.34 |  | 2.548 |

AVERAGE NUMBER OF COVERED EMPLOYEES, TOTAL WAGES, AVERAGE ANNUAL WAGE, AND AVERAGE WEEKLY WAGE
Base Period 1947-1949 and Period Calendar Year 1963
ARIZONA INDUSTRIES COVERED BY SOCIAL SECURITY
Compiled by Arizona Department of Mineral Resources Source: Arizona Employment Security Commission

|  | Average No. of $1 /$ Employees | Total |  | Average Annual Wage | Average Weekly Wage |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Base Period 1947-1949 |  |  |  |  |  |
| Copper Mining Only $\frac{2}{3 /}$ | 11,278 | \$ 39,432,008 |  | 3,496 |  | 67.23 |
| Copper Smelting $\overline{3} /$ | 1,500 | 5,175,000 |  | 3,450 |  | 66.35 |
| All Copper Mining \& Smelting | 12,778 | 44,607,008 |  | 3,491 |  | 67.13 |
| Other Mining \& Quarrying | 1,592 | 4,913,010 |  | 3,085 |  | 59.33 |
| All Mining, Quarrying \& Smelting | 14,370 | 49,520,018 |  | 3,446 |  | 66.27 |
| Manufacturing (Excl. Smelting) | 12,639 | 36,910,624 |  | 2,920 |  | 56.15 |
| Construction | 10;844 | 35,424,826 |  | 3,267 |  | 62.83 |
| Trans. \& Utilities (Exlc. R.R.s). | 10,530 | 29,948,944 |  | 2,844 |  | 54.69 |
| Wholesale - Retail Trade | 36,213 | 91,916,860 |  | 2,538 |  | 48.81 |
| Services - Misc. (Incl. Agri.) | 18,643 | 43,103,526 |  | 2,312 |  | 44.46 |
| Totals and Averages | 103,239 | \$ 286,824,898 | \$ | 2,778 |  | 53.42 |
| YEAR 1961 |  |  |  |  |  |  |
| Copper Mining Only 2/ | 14,275 | \$ 97,271,286 | \$ | 6,814 | \$ | 131.04 |
| Copper Smelting ${ }^{\text {/ }}$ | 1,578 | 9,968,163 |  | 6,317 |  | 121.48 |
| All Copper Mining \& Smelting | 15,853 | 107,239,449 |  | 6,765 |  | 130.10 |
| Other Mining \& Quarrying . | 1,903 | 10,542,501 |  | 5,540 |  | 106.54 |
| All Mining, Quarring \& Smelting | 17,756 | \$ 117,781,950 | \$ | 6,634 | \$ | 127.57 |
| YEAR 1962 |  |  |  |  |  |  |
| Copper Mining Only $2 /$ | 14,408 | \$ 101,920,108 | \$ |  | \$ | 136.04 |
| Copper Smelting $\overline{3} /$. | 1,868 | 12,216,000 |  | 6,540 |  | 125.76 |
| All Copper Mining \& Smelting | 16,276 | 114,136,108 |  | 7,013 |  | 134.86 |
| Other Mining \& Quarrying . . . | 1,580 | 8,727,313 |  | 5,524 |  | 106.24 |
| All Mining, Quarrying \& Smelting | 17,856 | \$ 122,863,421 | \$ | 6,881 | \$ | 132.33 |
| YEAR 1963 |  |  |  |  |  |  |
| Copper Mining Only $\frac{2 /}{3}$ | 14,303 | \$ 104,291,588 | \$ | 7,292 | \$ | 140.23 |
| Copper Smelting $\overline{3} /$. | 1,817 | 12,144,000 |  | 6;684 |  | 128.53 |
| All Copper Mining \& Smelting | 16,120 | 116,435,588 |  | 7,223 |  | 138.90 |
| Other Mining \& Quarrying . . . | 1,591 | 9,299,379 |  | 5,845 |  | 112.40 |
| All Mining, Quarrying \& Smelting | 17,711 | 125,734,967 |  | 7,099 |  | 136.52 |
| Manufacturing (Excl. Smelting) . | 55,034 | 348,296,033 |  | 6,323 |  | 121.60 |
| Construction . . . . . . . | 28,310 | 197,866,002 |  | 6,954 |  | 133.73 |
| Trans. \& Utilities (Excl R.R.s) | 20,948 | 125,961,223 |  | 6,013 |  | 115.63 |
| Wholesale - Retail Trade | 85,687 | 360,110,834 |  | 4,203 |  | 80.83 |
| Services \& Misc. (Incl Agri.) | 60,387 | 262,362,190 |  | 4,345 |  | 83.56 |
| TOTALS - Averages | 268,127 | \$ 1,420,331,249 | \$ | 5,297 | \$ | 101.87 |

1 / This number includes all covered employees on payroll, and is not restricted to production workers oniy, on which the average hourly and weekly earnings are reported. $2 /$ This number includes all copper mining and milling employees and some copper smeIting employees not reported under Manufacturing by the Employment Security Commission. 3/Smelting Employment has been segregated from Manufacturing as reported by the Employment Security Commission.

## TABLE VI

ESTIMATED EMPLOYMENT, WEEKLY HOURS, HOURLY AND WEEKLY
EARNINGS IN ARIZONA COPPER MINING BY YEARS FROM 1947 to 1963 INCI.

## Source: Arizona Employment Security Commission

These estimates are based upon a sample of fill and part-time production and related employees whose payroll and hours are reported for the pay period nearest the 15 th of each month.

|  | COPPER MINING |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Emp loyment | Weekly <br> Hours $1 /$ |  | $\begin{gathered} \text { Hourly } \\ \text { Earnings } \\ 2 / \\ \hline \end{gathered}$ |  | Base <br> Hourly <br> Rate <br> 3/ |  | Weekly <br> Earnings | Con sumer Price Index |
| 1947-1949 Base | 10,700 | 44.83 | \$ | 1.432 | 4 | 1.359 | \$ | 64.20 | 100.0 |
| 1950 Year | 9,500 | 46.5 |  | 1.63 |  | 1.524 |  | 75.80 | 102.8 |
| 1951 April | 10,400 | 47.2 |  | 1.71 |  | 1.589 |  | 80.71 | 110.4 |
| 1951 Year | 10,100 | 47.7 |  | 1.74 |  | 1.61 |  | 83.00 | 111.0 |
| 1952 Year | 10,700 | 47.1 |  | 1.92 |  | 1.785 |  | 90.43 | 113.5 |
| 1953 Year | 11,400 | 46.7 |  | 2.05 |  | 1.896 |  | 95.73 | 114.4 |
| 1954 Year | 11,600 | 45.3 |  | 2.13 |  | 2.012 |  | 96.49 | 114.8 |
| 1955 Year | 11,700 | 47.0 |  | 2.23 |  | 2.075 |  | 104.81 | 114.5 |
| 1956 Year | 13,200 | 47.0 |  | 2.38 |  | 2.215 |  | 111.86 | 116.1 |
| 1957 Year | 14,000 | 43.74 |  | 2.42 |  | 2.324 |  | 106.00 | 120.2 |
| 1958 Year | 13,533 | 39.80 |  | 2.399 |  | 2.399 |  | 95.49 | 123.5 |
| 1959 Year | 11,100 | 42,816 |  | 2.526 |  | 2.446 |  | 108.15 | 124.6 |
| 1960 Year | 12,733 | 43.69 |  | 2.674 |  | 2.566 |  | 116.83 | 126.5 |
| 1961 Year | 13, 1.17 | 44.83 |  | 2.817 |  | 2.673 |  | 126.29 | 127.85 |
| 1962 Year | 13,350 | 44.28 |  | 2.920 |  | 2.785 |  | 129.29 | 129.3 |
| 1963 Year | 13,393 | 44.56 |  | 3.003 |  | 2.857 |  | 133.81 | 131.0 |

1/ Actual hours worked.
2/ Includes overtime earnings.
3/ Base Hourly Rate is a straight time rate, and is obtained by dividing the. Weekly Earnings by the Weekly Hours plus $50 \%$ of the excess hours over 40 hours.

TABLE VII
COPPER MINING EMPLOYMENT, WAGES AND HOURS IN U. S. AND ARIZONA Base Period (1947-1949) compared with Three-Year Period (1961-1963)

Source: "Employment Earnings," U. S. Dept. of Labor U.S.B.M. Mineral Yearbooks "Arizona's Current Emp loyment Development." Arizona Employment Security Commission.

| Base Period 1947-49 Avg. | "A"NumberOf all Employees |  | Weekly <br> Earnings |  | "C"WeeklyHoursARIZONA | "D" <br> Hourly <br> Earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ARIZONA | U.S. | ARIZONA | U.S. |  | U.S. | ARIZONA | U.S. |
|  | 10,700 | 27,100 | \$ 64.20 | \$ 63.11 | 44.83 | 44.10 | \$ 1.432 | \$ 1.431 |
| Last Three Yrs. |  |  |  |  |  |  |  |  |
| 1961 | 13,117 | 29,000 | \$126.29 | \$119.03 | 44.8 | 43.6 | \$ 2.81 |  |
| 1962 | 13,350 | 28,500 | 129.29 | 120.98 | 44.28 | 42. | 2.92 | 2.82 |
| 1963 | 13,393 | 27,800 | 133.81 | 124.48 | 44.56 | 43.06 | 3.003 | 2.891 |
| 1961-63 Avg. | 13,287 | 28,433 | \$129.82 | \$121.46 | 44.55 | 43.19 | \$ 2.914 | \$ 2.813 |



Continued

## TABLE VII (Continued)



## TABLE VIII

SUMMARY of estimated* Copper mining employment, weekly earnings, heekly hours, hourly earnings, in arizona and united states, BY YEARS, 1947 to 1963 INCLUSIVE

$$
\begin{aligned}
\text { Source: } & \text { "Employment and Earnings" - U. S. Dept. of Labor. } \\
& \text { "Arizona's Current Employment Developments" - } \\
& \text { Arizona Employment Security Commission. }
\end{aligned}
$$

|  | ALL EMPLOYEES |  | WEEKLY EARNINGS |  | WEEKLY HOURS |  | HOURLY EARNINGS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Arizona | U.S. | Arizona | U.S. | Arizona | U. S. | Arizona | U.S. |
| 1947 | 10,700 | 25,700 | \$ 59.40 | \$ 59.27 | 45.0 | 44.8 | \$ 1.32 | \$ 1.32 |
| 1948 | 10,900 | 27,800 | 65.99 | 65.81 | 45.2 | 45.2 | $1.46$ | $1.46$ |
| 1949 | 10,500 | 27,300 | 66.98 | 63.96 | 44.3 | 42.3 | 1.512 | 1.512 |
| Avg. 1947-1949 | 10,700 | 27,100 | \$ 64.20 | \$ 63.11 | 44.83 | 44.1 | \$ 1.432 | \$ 1.431 |
| 1950 | 9,500 | 25,500 | \$ 75.30 | \$ 72.05 | 44.5 | 45.0 | \$ 1.63 | \$ 1.601 |
| 1951 | 10,100 | 25,900 | 83.01 | 78.37 | 47.7 | 46.1 | 1.74 | 1.70 |
| 1952 | 10,700 | 26,500 | 90.31 | 85.73 | 47.06 | 45.6 | 1.92 | 1.88 |
| 1953 | 11,400 | 28,600 | 96.03 | 91.60 | 46.73 | 45.8 | 2.055 | 2.00 |
| 1.954 | 11,900 | 27,400 | 36.60 | 37.33 | 45.31 | 42.6 | 2.132 | 2.05 |
| 1955 | 11,800 | 27,200 | 104.90 | 95.70 | 47.0 | 44.1 | 2.232 | 2.17 |
| 1956 | 13,300 | 34,400 | 112.07 | 100.95 | 47.1 | 43.7 | 2.377 | 2.31 |
| 1957 | 14,000 | 32,500 | 106.22 | 93.23 | 43.8 | 41.1 | 2.425 | 2.39 |
| 1958 | 13,500 | 28,400 | 95.40 | 94.62 | 39.8 | 39.1 | 2.399 | 2.42 |
| 1959 | 11,100 | 22,400 | 108.15 | 106.25 | 42.8 | 42.5 | 2.526 | 2.50 |
| 1960 | 12,733 | 29,600 | 116.83 | 114.75 | 43.7 | 43.3 | 2.674 | 2.65 |
| 1961 | 13,117 | 27,000 | 126.29 | 119.03 | 44.8 | 43.6 | 2.817 | 2.73 |
| 1962 | 13,350 | 28,500 | 129.29 | 120.98 | 44.3 | 42.9 | 2.920 | 2.82 |
| 1963 | 13,393 | 27,800 | 133.81. | 124.48 | 44,6 | 43.1 | 3.003 | 2.89 |

* These estimates include all full and part-time wage and salary workers who worked or received pay during the pay period ending nearest the 15 th of the month.


## ARIZONA COPPER MINING - OUTPUT IN TONS COPPER ORE,

 VALUE OF COPPER, GOLD, SILVER PRODUCEDSource: U. S. Bureau of Mines


## $\mathrm{P}=$ Preliminary

## TABLE X

SUMMARY OF TOTAL COVERED EMPLOYMENT \& WAGES IN ARIZONA COPPER MINING 1947-1963 INCLUSIVE

Source: Arizona Employment Security Commission United States Bureau of Mines

| COPPER <br> MINING | No. <br> Covered <br> Employees | Covered <br> Wages | Average <br> Annual <br> Wage | Tons <br> Copper <br> Ores. | Average <br> Weekly <br> Wage |
| :--- | :--- | :--- | :---: | :---: | :---: |
| 1947 | 11,340 | $\$ 36,365,277$ | $\$ 3,207$ | $37,810,448$ | $\$$ |
| 1948 | 11,493 | $41,318,524$ | 3,595 | $39,072,204$ | 69.13 |
| 1949 | 11,001 | $40,612,224$ | 3,692 | $37,365,611$ | 71.00 |
| 1950 | 10,181 | $41,994,321$ | 4,125 | $41,757,273$ | 79.33 |
| 1951 | 10,754 | $47,825,698$ | 4,447 | $42,784,388$ | 85.52 |
| 1952 | 11,365 | $54,950.235$ | 4,835 | $44,472,522$ | 93.14 |
| 1953 | 12,068 | $62,742,982$ | 5,199 | $45,187,838$ | 99.98 |
| 1954 | 12,502 | $65,518,853$ | 5,241 | $43,072,894$ | 100.79 |
| 1955 | 12,399 | $71,293,263$ | 5,750 | $52,189,728$ | 110.58 |
| 1956 | 14,008 | $83,568,996$ | 5,966 | $60,468,580$ | 114.73 |
| 1957 | 14,652 | $85,125,320$ | 5,809 | $59,571,834$ | 111,71 |
| 1958 | 14,100 | $74,726,972$ | 5,300 | $56,255,809$ | 101.93 |
| 1959 | 11,568 | $72,095,130$ | 6,232 | $53,121,545$ | 119.85 |
| 1960 | 13,764 | $90,312,848$ | 6,562 | $66,032,439$ | 126.19 |
| 1961 | 14,275, | $97,271,286$ | 6,814 | $71,918,991$ | 131.04 |
| 1962 | 14,408 | $101,920,108$ | 7,074 | $78,868,147$ | 136.04 |
| 1963 | 14,303 | $104,291,588$ | 7,292 | $80,853,000 \mathrm{p}$ | 140.23 |

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[^0]:    P = Preliminary

