IS THE ARIZONA MINING INDUSTRY SLIPPING?

The impression is being given by various writers and statisticians that the mining indus try of the state has been steadily slipping in its relation to the State's e conomy, and that the agricultural industry has been growing so fast that it will soon overtake and pass the mining industry.

The impression is gained from the record of the relative value of the primary products of both industries for the past ten years (1941-1950). Following is this comparative record, as reported by the U. S. Bureau of Mines and "Arizona Statistical Review", published by the Valley National Bank:

Value of Copper,	Value of all
Lead, Zinc, Gold	Agricultural
and Silver	Crops
Recovered	
\$ 97.638.000	\$ 43,839,000
	52,849,000
	83,163,000
	80,388,000
95,963,000	89,648,000
114,986,000	102,955,000
182,753,000	112,192,000
196,208,000	143,065,000
177,894,000	177,276,000
201,034,000	186,037,000
	Lead, Zinc, Gold and Silver Recovered \$ 97,638,000 114,526,000 121,213,000 113,095,000 95,963,000 114,986,000 182,753,000 196,208,000 177,894,000

Cotton has been the chief factor in the growth of the agricultural industry, and in 1950 it's value constituted 54.76% of the value of all crops, as compared with 20.41% in 1943, as shown by the following table: (Statistics from "Arizona Cotton Statistics", U. S. Department of Agriculture, Bureau of Agricultural Economics).

No. of Bales Cotton	Value of Cotton	% of Total Value of All Crops	Average Price of Cotton Per Lb.
181,000	\$ 18.236.000	L1.60	\$.2032
		The state of the s	.2584
131,000	16,972,000	20.41	.2617
136,000	14,631,000	21.11	.2156
117,000	13,670,000	15.25	.2345
158,000	23,923,000	23.24	-3035
234 000	35,233,000	31.41	.3013
328,000	50,151,000	35.05	.3061
543,000	74,402,000	41.97	.2740
474,000	101,868,000	54.76	.431
	Bales Cotton 181,000 193,000 131,000 136,000 117,000 158,000 234,000 328,000	Bales Cotton 181,000 \$ 18,236,000 193,000 24,635,000 131,000 16,972,000 136,000 14,631,000 117,000 13,670,000 158,000 23,923,000 234,000 35,233,000 328,000 50,151,000 543,000 74,402,000	No. of Value of Value of Bales Cotton All Crops Cotton \$ 18,236,000

In the year 1910, Arizona mines produced 3,914,969 tons of copper, lead, zinc, gold and silver ores, with a value of \$42,731,519; in 1941 this tonnage increased to 25,491,794 with a value of \$97,638,000; and in 1950 the tonnage mined was 42,709,272 with a recovered value of \$201,033,694. From this amazing growth, which is shown graphically herewith, it can hardly be said that the Arizona Mining Industry is slipping. To be sure, the ore value per ton has dropped from \$10.91 in 1910 to \$3.83 in 1941 and \$4.71 in 1950, but the annual tonnage mined has multiplied almost eleven times in the past 40 years.

While copper has been and probably always will be the chief Arizona mining product, a study of the following table shows a remarkable growth in lead and zinc mining in the last few years, and indicates that in the future, lead and zinc will go far toward keeping the Arizona mining industry as the leading industry of the State. Agriculture can hardly be expected to show much further increase in combined production and prices. It would appear that water may probably be the limiting factor as to production, and it is hardly to be expected that better prices will prevail.

COPPER, LEAD - ZINC PRODUCTION IN ARIZONA

YEAR	Tons	COPPE D Price	R	Value	
Avg. 1911-35 Avg. 1936-40 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950	249,510 250,966 326,317 393,387 403,181 358,303 287,203 289,223 366,218 375,121 359,010 403,301	14.7¢ 10.7 11.8 12.1 13.0 13.5 16.2 21.0 21.7 19.7 20.8		80,637,6 53,613,1 77,010,8 95,199,6 104,827,0 96,741,8 77,544,8 93,708,2 153,811,5 162,802,5 141,449,9 167,773,2	.96 .12 .54 .60 .10 .53 .60 .14
	Tons LEAD Price	Value	Tons	Z I N C	Value
Avg. 1911-35 Avg. 1936-40 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950	6,376 5.6¢ 11,530 5.0 15,638 5.7¢ 14,772 6.7 13,727 7.5 16,707 8.0 22,867 8.6 23,930 10.9 28,566 14.4 29,899 17.9 33,568 15.8 26,383 13.5	\$ 797,092 1,150,5 35 1,782,732 1,979,448 2,059,050 2,673,120 3,933,124 5,216,740 8,227,008 10,703,842 10,607,488 7,123,410	2,678 7,319 16,493 18,522 19,677 29,077 40,226 43,665 54,644 54,478 70,658 60,480	6.7¢ 5.8 7.5 9.3 10.8 11.4 11.5 12.2 12.1 13.3 12.4 14.2	\$ 471,218 843,165 2,473,950 3,445,092 4,250,232 6,629,556 9,251,980 10,654,260 13,223,848 14,491,148 17,523,184 17,523,184

It will be noted that during the period 1941-1950 the price of cotton increased from 20.32 cents to 43.10 cents, or 112.1%; the price of copper increased from 11.8 cents to 20.8 cents, or 76.3%; the price of lead increased from 5.7 cents to 13.5 cents, or 136.8%; the price of zinc increased from 7.5 cents to 14.2 cents, or 89.3%; the price of gold did not change, and the price of silver rose feom 71.11 cents to 90.5 cents, or 27.3%. If the price of the five metals had averaged the same increase that cotton enjoyed, 112.1%, the comparative picture would have been something like this, assuming that all agricultural crops had enjoyed the same increase as the major commodity, cotton:

1950 Produc			V alue of Metal Based on 1941 Prices	Based on 112.1% Increase in Prices	Assumed Price of Metal
403,301 26,383 60,480 118,313 5,325,441	Tons Tons oz	Lead Zinc	95,179,036 3,007,662 9,072,000 4,140,955 3,786,921	\$ 201,650,500 6,384,686 19,232,640 8,782,966 8,030,765	25.0¢ 12.1¢ 15.9¢ \$74.235 \$ 1.508
TOTAL V	alue	of 1950 Metal	Production	244,081,557	a - constant day
		•			2 - 0 - 10 H 10 1 1 1 1

TOTAL value of 1950 Agricultural Crops 186,037,000

As shown above, this would leave the Agricultural Industry still further behind the Mining Industry. The large increase in value of agricultural products was chiefly due to the high government support prices, whereas metal prices had no such support. Part of the time metal prices had a little protection from a 2-cent duty on copper, but when the duty was suspended in 1949, metal prices took a slump and there was no government support price to protect the industry. It is worthy of note that now that the government has guaranteed to restore the duty when and if the price of copper drops below 24 cents, copper has gone up to 24.5 cents per pound, which is 108% above the 1941 price of 11.8 cents, or almost the 112.1% cotton price increase. This is a good illustration of the beneficial effect of protection or support.

A recent compilation by the Arizona Department of Mineral Resources showed that in the period 1941-1950, the total taxes (State, County, City and School) paid per \$10,000 value of product was \$412.97 for the Mining Counties and \$294.90 for the Agricultural Counties. The agricultural industry may well claim to be the leading industry of the State, when it pays a higher tax than any other industry.

The discrepancy in taxes paid was even more noticeable in the year 1950, when mining property taxes were \$483.23 per \$10,000 value, and the mining severance or sales taxes added \$95.54 to the burden, or a total of \$578.77, as compared with \$296.24 for the agricultural industry and \$83.71 for the livestock industry; or a total of \$379.95 f or both industries. These taxes combined are only 65.65% of those paid by mining measured on the comparable base of value of production.

There is talk of the manufacturing industry in Arizona eventually climbing to the top if proper encouragement in the form of tax incentive is offered. It would seem that the tourist industry would be adversely affected by the presence of excessive manufacturing and that what might be gained from one angle might well be lost in another direction. If tax incentives are offered to bring in additional industry it might be well to look to mining, as that industry brings in more tax revenue proportionately than any other industry in the State.

GRAPH SHOWING GROWTH OF ARIZONA MINE PRODUCTION OF COPPER, LEAD, ZINC, GOLD AND SILVER Statistics compiled by: Arizona Department of Mineral Resources, from USBM Reports.

