

METAL STATISTICS

1926

PUBLISHED BY

AMERICAN METAL MARKET



PRESENTED BY

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1926

Metal statistics.

New York : American Metal
Market, 1908-c1994.

"I know no way of judging the future
but by the past."

—Patrick Henry

METAL STATISTICS 1926

NINETEENTH ANNUAL EDITION

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Pages 5 to 15

BUYERS' DIRECTORY

Pages 481 to 544

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TO ADVERTISEMENTS**

Pages 475 to 479

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THE AMERICAN METAL MARKET CO.

PREFACE

This, the nineteenth, annual edition of "Metal Statistics" contains the same general assortment of statistical information concerning ferrous and non-ferrous metals that has been supplied in previous years, but various new tables have been introduced which it is hoped will further increase the publication's usefulness to the trade. The aim each year is to furnish statistics providing the information most generally required by producers and consumers, buyers and sellers of metals and iron and steel products, and the editors are always pleased to receive suggestions looking to alterations or additions that would improve the book.

Attention is directed to the fact that the prices given in this volume are based on the daily quotations appearing in our daily publication, "American Metal Market" and represent wholesale selling prices.

All the iron and steel production statistics are gathered by the American Iron and Steel Institute, while the production statistics on metals are for the most part based on figures furnished by the United States Geological Survey and the American Bureau of Metal Statistics, and special thanks are due to these authorities for the very complete records of production which they supply to the public each year.

B. E. V. LUTY,

J. F. BRADY,

New York, March 1, 1926.

Editors.

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Hickman, Williams & Co.

(INCORPORATED)

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CINCINNATI—First Nat'l. Bank Bldg.
PITTSBURGH—Oliver Bldg.
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Coke

Cinder & Scale

Fluorspar

Billets & Sheet Bars

Scrap

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NEW YORK—1548 Equitable Bldg.
DETROIT—Book Bldg.

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Ferro Silicon

Ferro Phosphorus

Ferro Manganese

Spiegeleisen



STORAGE YARDS ADJACENT TO CHICAGO AND ST. LOUIS

COMPOSITE PIG IRON.

Composite pig iron is a convention devised by the **American Metal Market** in 1910 to show at one glance the bulk movement of all pig iron. The price of composite pig iron is thus computed (for January 1, 1926):

One ton Bessemer, valley	\$21.00
Two tons basic, valley (\$20.00)	40.00
One ton No. 2 foundry, valley	20.50
One ton No. 2X foundry, Philadelphia	24.26
One ton No. 2X foundry, Buffalo	22.75
One ton No. 2 foundry, Cleveland	22.26
One ton No. 2 foundry, Chicago	23.61
Two tons No. 2 Southern foundry, Cincinnati (\$24.69)	49.38
Total, ten tons	\$223.76
One ton	\$22.376

Monthly averages of composite pig iron, 1912 to 1925 on adjacent page. Annual averages below.

1890.....	17.00	1908.....	16.02
1891.....	14.82	1909.....	16.23
1892.....	13.48	1910.....	15.55
1893.....	12.20	1911.....	14.00
1894.....	10.39	1912.....	14.82
1895.....	11.71	1913.....	15.42
1896.....	11.14	1914.....	13.52
1897.....	9.98	1915.....	14.15
1898.....	10.41	1916.....	20.31
1899.....	17.34	1917.....	39.99
1900.....	17.82	1918.....	34.38
1901.....	14.35	1919.....	29.91
1902.....	19.89	1920.....	43.80
1903.....	17.75	1921.....	24.05
1904.....	13.34	1922.....	25.00
1905.....	15.96	1923.....	27.15
1906.....	18.84	1924.....	21.87
1907.....	22.49	1925.....	21.32
Average, ten years 1904—1913.....		16.27	

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Charcoal

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COMPOSITE PIG IRON—Monthly Averages.

Averaged from daily figures. Explanation of composite on adjacent page.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	13.42	17.39	13.49	13.07	18.69	30.75	34.19	32.40	39.84	32.62	19.72	27.31	23.18	23.24
Feb.	13.43	17.14	13.72	13.07	18.56	30.95	34.19	32.40	42.72	29.95	19.31	27.98	24.13	23.21
Mar.	13.58	16.78	13.84	12.97	18.57	34.53	34.14	30.47	43.05	27.35	19.26	30.36	23.83	22.87
Apr.	13.78	16.36	13.85	12.91	19.02	39.14	33.88	28.05	43.62	25.80	20.77	31.44	23.41	21.70
May	13.92	15.68	13.81	13.03	18.97	42.04	33.88	27.74	44.44	24.47	23.91	30.84	22.57	20.65
June	14.00	14.97	13.61	13.05	18.55	48.16	33.91	27.15	44.80	23.08	24.29	29.11	21.20	19.78
July	14.29	14.58	13.52	13.13	18.58	52.56	34.05	27.66	45.60	21.57	24.54	26.98	20.11	19.72
Aug.	14.67	14.56	13.52	14.08	18.51	51.93	34.05	27.99	47.41	20.29	27.74	26.10	20.22	19.78
Sept.	15.39	14.69	13.50	14.89	18.70	47.28	34.31	28.26	48.98	20.99	32.48	25.98	20.41	20.08
Oct.	16.71	14.74	13.26	15.21	20.19	34.17	35.36	28.65	47.07	21.15	31.82	24.37	20.37	20.66
Nov.	17.23	14.28	13.05	16.40	25.24	34.19	35.39	31.48	41.80	20.92	29.46	22.49	20.66	21.85
Dec.	17.48	13.84	13.07	17.99	30.08	34.19	35.23	36.74	36.31	20.42	26.73	22.80	22.32	22.28
Av.	14.82	15.42	13.52	14.15	20.31	39.99	34.38	29.91	43.80	24.05	25.00	27.15	21.87	21.32

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Jones & Laughlin Steel Corporation

AMERICAN IRON & STEEL WORKS

Pittsburgh

COMPOSITE FINISHED STEEL.

Composite finished steel is a convention devised by the **American Metal Market** in 1910 to show at one glance the bulk movement of prices of finished steel products, excluding rails, the groups being weighted according to their tonnage importance. The price of composite finished steel is thus computed (for January 1, 1926):

Pounds	Group	Price	Extension
2½	Bars	2.00	5.000
1½	Plates	1.90	2.850
1½	Shapes	1.90	2.850
1½	Pipe (1.3)	3.80	5.700
1½	Wire (nails)	2.65	3.975
1	Sheets (28 bl.)	3.35	3.350
½	Tin plates	5.50	2.750

10 pounds 26.475

One pound 2.6475

Monthly averages, 1909 to 1925, on adjacent page. Annual averages below.

1897.....	1.40	1912.....	1.62
1898.....	1.40	1913.....	1.72
1899.....	2.37	1914.....	1.52
1900.....	2.26	1915.....	1.63
1901.....	2.15	1916.....	2.80
1902.....	2.06	1917.....	4.46
1903.....	1.97	1918.....	3.79
1904.....	1.77	1919.....	3.32
1905.....	1.73	1920.....	3.63
1906.....	1.90	1921.....	2.69
1907.....	2.06	1922.....	2.31
1908.....	1.98	1923.....	2.95
1909.....	1.74	1924.....	2.84
1910.....	1.79	1925.....	2.68
1911.....	1.66		

Average 1904-13.... 1.80



INLAND

**BASIC OPEN HEARTH
STEEL PRODUCTS**

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ANGLE BARS
TRACK SPIKES
TRACK BOLTS
TIE PLATES**

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COMPOSITE FINISHED STEEL — Monthly Averages.

Averaged from daily figures. Explanation of composite on adjacent page.

	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925
Jan.	1.92	1.86	1.74	1.51	1.77	1.54	1.46	2.14	3.55	3.80	3.58	3.35	3.25	2.16	2.59	3.03	2.77
Feb.	1.85	1.85	1.75	1.49	1.76	1.58	1.47	2.30	3.65	3.80	3.58	3.58	3.10	2.14	2.72	3.03	2.83
Mar.	1.68	1.85	1.76	1.48	1.76	1.56	1.51	2.56	3.95	3.80	3.47	3.78	2.94	2.09	2.83	3.00	2.76
Apr.	1.65	1.84	1.76	1.52	1.77	1.53	1.54	2.72	4.20	3.80	3.25	3.77	2.93	2.16	2.99	2.94	2.73
May	1.60	1.83	1.75	1.56	1.78	1.51	1.54	2.80	4.53	3.80	3.25	3.71	2.93	2.18	3.03	2.86	2.69
June	1.62	1.80	1.68	1.58	1.77	1.48	1.53	2.83	5.16	3.80	3.25	3.67	2.83	2.22	3.03	2.84	2.65
July	1.67	1.78	1.67	1.62	1.76	1.48	1.57	2.84	5.80	3.80	3.25	3.70	2.63	2.23	3.03	2.81	2.63
Aug.	1.71	1.75	1.64	1.68	1.74	1.54	1.61	2.86	5.72	3.80	3.25	3.80	2.48	2.36	3.03	2.76	2.61
Sept.	1.74	1.75	1.61	1.71	1.71	1.56	1.65	2.90	5.19	3.80	3.22	3.80	2.37	2.51	3.03	2.72	2.61
Oct.	1.79	1.74	1.55	1.76	1.68	1.52	1.73	2.97	4.14	3.80	3.23	3.67	2.31	2.57	3.02	2.68	2.61
Nov.	1.82	1.73	1.48	1.77	1.62	1.48	1.91	3.20	3.82	3.80	3.25	3.50	2.28	2.57	3.02	2.68	2.63
Dec.	1.84	1.74	1.48	1.78	1.56	1.43	2.03	3.47	3.80	3.67	3.25	3.28	2.23	2.57	3.02	2.75	2.65
Av.	1.74	1.79	1.66	1.62	1.72	1.52	1.63	2.80	4.46	3.79	3.32	3.63	2.69	2.31	2.96	2.84	2.68

HANNA

IRON ORE

From the Menominee,
Gogebic, Mesaba and
Marquette Ranges

PIG IRON — COAL

M.A.HANNA & CO.

CLEVELAND

Sales Offices:

Chicago	New York	Pittsburgh
Baltimore	Cincinnati	
Philadelphia	Toledo	Williamsport, Pa.
Buffalo	Detroit	
Toronto		



IRON ORE PRODUCTION.

(Gross tons)

(U. S. Geological Survey)

	Lake Superior.	All other.	Total.
1905...	33,325,018	9,201,115	42,526,133
1906...	37,876,371	9,873,357	47,749,728
1907...	41,526,579	10,194,040	51,720,619
1908...	28,108,079	7,816,692	35,924,771
1909...	41,863,635	9,291,802	51,155,437
1910...	46,328,743	10,560,991	56,889,734
1911...	35,550,225	8,326,327	43,876,552
1912...	46,368,878	8,781,269	55,150,147
1913...	52,377,362	9,603,075	61,980,437
1914...	33,540,403	7,899,358	41,439,761
1915...	46,944,254	8,582,236	55,526,490
1916...	63,735,088	11,432,584	75,167,672
1917...	63,481,321	11,807,530	75,288,851
1918...	59,779,794	9,878,484	69,658,278
1919...	52,003,000	8,463,000	60,466,000
1920...	57,860,530	9,743,935	67,604,465
1921...	25,090,197	4,192,493	29,282,690
1922...	39,716,016	7,412,511	47,128,527
1923...	59,285,408	10,066,034	69,351,442
1924...	44,942,898	9,324,521	54,267,419
20 years	909,703,799	182,451,354	1,092,155,153
1925 (est)	52,316,000	9,763,000	62,079,000

IRON ORE ON LAKE ERIE DOCKS.

	May 1	December 1
1912	5,717,801	10,053,836
1913	5,456,774	9,250,500
1914	5,919,717	8,375,014
1915	5,893,721	8,812,499
1916	3,311,399	9,958,306
1917	4,772,232	10,023,743
1918	5,624,587	10,376,509
1919	5,686,188	10,454,843
1920	6,204,556	10,955,868
1921	8,093,854	9,032,595
1922	6,988,878	9,899,313
1923	4,857,542	8,756,505
1924	4,798,572	8,049,276
1925	4,303,062	7,856,154

W. P. SNYDER & Co.

ESTABLISHED 1888

The
Shenango Furnace Co.

PITTSBURGH, PA.

IRON ORES

PIG IRON

COAL

COKE

LAKE SUPERIOR IRON ORE.

(At Lake Erie Dock).

— Old Range — — Mesabi —
Bess. Non-Bess. Bess. Non-Bess.

1885	....	4.00	4.00		
1890	...	6.00	4.50		
1892	...	4.50	3.75		
1893	....	4.00	3.25		
1894	...	2.75	2.00	2.50	1.75
1895	...	2.90	2.25	2.25	1.90
1896	....	4.00	2.60	3.25	2.40
1897	....	2.65	2.25	2.10	1.80
1898	..	2.75	1.80	2.15	1.70
1899	...	2.80	2.00	2.25	1.90
1900	...	5.50	4.15	4.40	4.00
1901	...	4.25	2.85	2.75	2.35
1902	...	4.25	3.00	3.00	2.60
1903	...	4.50	3.60	4.00	3.20
1904	...	3.00	2.60	2.75	2.35
1905	...	3.75	3.20	3.50	3.00
1906	...	4.25	3.70	4.00	3.50
1907	....	5.00	4.20	4.75	4.00
1908-9	..	4.50	3.70	4.25	3.50
1910	...	5.00	4.20	4.75	4.00
1911	...	4.50	3.70	4.25	3.50
1912	...	3.75	3.00	3.50	2.85
1913	...	4.40	3.60	4.15	3.40
1914	....	3.75	3.00	3.50	2.85
1915	...	3.75	3.00	3.45	2.80
1916	...	4.45	3.70	4.20	3.55
1917-8	..	5.95	5.20	5.70	5.05
July 1, '18		6.40	5.65	6.15	5.50
Oct. 1, '18		6.65	5.90	6.40	5.75
1919	...	6.45	5.70	6.20	5.55
1920	...	7.45	6.70	7.20	6.55
1921	...	6.45	5.70	6.20	5.55
1922	...	5.95	5.20	5.70	5.05
1923	...	6.45	5.70	6.20	5.55
1924	....	5.65	4.90	5.40	4.75
1925	....	5.55	4.40	4.40	4.25

Particularly 1894 to 1899 some grades sold at materially higher prices. Base ore content (natural state) 1906 and some previous years; Bessemer 56.70; non-Bessemer, 52.80; 1907: Bessemer, 55; non-Bessemer, 51.50; 1925, Bessemer, 51.50.

CLEVELAND



CLIFFS



IRON ORE PIG IRON COAL COKE

The Cleveland-Cliffs Iron Co.

ESTABLISHED 1850

UNION TRUST BLDG.

CLEVELAND, OHIO

LAKE SUPERIOR IRON ORE.

Average analyses, 1924.

(Lake Superior Iron Ore Association.)

Bessemer:

	Tons	Iron	Phos.	Sil.	Man.	Moist.
Gogebic	2421274	54.08	.042	8.11	.34	10.46
Marquette	1411155	55.31	.042	7.40	.20	10.26
Menominee	231378	52.19	.044	7.98	.24	6.22
Vermilion	752904	57.55	.041	6.96	.13	6.71
Mesabi	8462706	54.82	.039	8.21	.36	9.31
Total	12009417	54.80	.040	8.10	.34	9.33

L. P. Non-Bess.:

Gogebic	2114709	53.80	.085	6.51	.49	11.81
Marquette	1668444	53.76	.093	8.29	.32	8.87
Menominee	505264	49.99	.054	9.61	.29	6.87
Cuyuna	202745	50.74	.102	10.36	.36	8.52
Vermilion	171311	59.76	.080	6.47	.11	4.35
Mesabi	20344849	50.74	.073	8.02	.75	12.20
Total	25007322	51.25	.075	7.95	.68	11.75

H. P. Non-Bess.:

Marquette	551632	49.44	.309	8.34	.52	12.24
Menom.	2750157	51.24	.449	7.65	.34	8.45
Cuyuna	533429	50.39	.260	8.58	.61	11.58
Total	3835218	50.86	.402	7.88	.40	9.43

Silicious:

Gogebic	79025	38.52	.070	28.43	.93	11.16
Marquette	781478	40.45	.059	31.96	.31	5.70
Menominee	111310	48.59	.065	17.10	.19	8.09
Mesabi	14154	49.33	.038	18.01	.18	8.19
Total	985967	41.34	.060	29.80	.34	6.45

Manganiferous:

Gogebic	493086	49.54	.068	7.31	4.00	11.63
Menominee	198963	42.54	.651	6.58	8.07	7.36
Cuyuna	717653	39.99	.269	6.50	8.94	12.68
Mesabi	28539	46.49	.076	8.88	2.52	13.71
Total	1438241	43.74	.249	6.84	7.00	11.61

All grades:

Gogebic	5108094	53.28	.063	7.69	.76	11.15
Marquette	3142709	49.76	.120	14.15	.34	8.74
Menom.	3797072	50.60	.371	8.15	.73	8.04
Cuyuna	1453827	45.30	.242	7.81	4.69	11.70
Vermilion	924215	57.96	.048	6.87	.13	6.27
Mesabi	28850248	51.93	.063	8.08	.64	11.35
Total	43276165	51.72	.100	8.45	.76	10.75



BRANCH SALES OFFICE
UNION TRUST BUILDING
CLEVELAND, O.

LAKE SUPERIOR ORE SHIPMENTS.

Compiled by the Iron Trade Review—
Gross tons.

1854	3,000	1901	20,615,907
1855	1,449	1902	27,585,904
1860	114,401	1903	24,329,710
1865	236,208	1904	21,849,401
1870	830,940	1905	34,384,116
1875	981,257	1906	38,565,762
1880	1,908,745	1907	42,266,668
1883	2,352,840	1908	26,014,987
1884	2,506,814	1909	42,586,869
1885	2,516,201	1910	43,435,171
1886	3,559,371	1911	32,793,130
1887	4,742,276	1912	48,221,546
1888	5,046,503	1913	49,947,116
1889	7,292,644	1914	32,729,726
1890	9,003,701	1915	47,272,751
1891	7,071,053	1916	66,658,466
1892	9,081,285	1917	64,437,003
1893	6,129,279	1918	62,836,082
1894	7,759,753	1919	48,546,651
1895	10,445,509	1920	60,411,572
1896	9,947,972	1921	22,799,077
1897	12,475,130	1922	43,900,096
1898	14,042,824	1923	60,780,003
1899	18,271,535	1924	43,895,110
1900	19,080,379	1925 (est.)	55,210,000

Totals from Opening.

Opened	Range.	In 1924.	Thro. 1924.
1854	Marquette	3,174,660	147,122,571
1877	Menominee	3,836,707	141,391,091
1884	Vermillion	978,097	48,524,420
1884	Gogebic	5,159,838	146,021,340
1892	Mesabi	29,141,665	673,198,126
1911	Cuyuna	1,468,940	19,527,537
1892	Miscellaneous	135,203*	2,636,600

* Mayville-Baraboo

Through 1924	1,178,421,685
In 1925 (estimated)	55,210,000

Through 1925 1,233,631,685

We Offer--

Brokerage Service in all markets for both listed and unlisted stocks and bonds, either for cash or on conservative margin.

Statistical Service and opinion on all matters affecting your present or prospective investment and speculative holdings.

Market Letter Service covering, weekly and monthly, important financial developments and our interpretation of their effect on the securities market.

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Members New York Stock Exchange
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115 BROADWAY - NEW YORK

Telephone: Rector 8120

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350 Madison Ave., New York

1521 Walnut Street, Philadelphia, Pa.

DIRECT WIRES TO PRINCIPAL CITIES

PITTSBURGH DISTRICT COAL.

Steam mine-run per net ton f.o.b. mines Pittsburgh district.

	1913.	1914.	1915.	1916.	1916.	1917.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	1.14	1.13	1.12	1.06	1.58	1.16	4.68	1.48	2.46	2.35	2.35	3.07	2.10	3.41	2.00
Feb.	1.13	1.12	1.13	1.07	1.44	1.12	5.21	1.54	2.46	2.34	2.35	2.44	2.10	2.77	2.05
Mar.	1.13	1.12	1.09	1.06	1.27	1.08	4.49	1.46	2.46	2.30	2.35	2.30	1.95	2.40	1.95
Apr.	1.12	1.09	1.05	1.02	1.23	1.10	3.51	2.48	2.46	2.10	3.81	2.25	2.31	2.05	1.85
May	1.13	1.09	.98	1.01	1.28	1.11	4.61	2.70	2.46	1.88	4.41	2.19	3.39	2.14	1.90
June	1.12	1.08	.95	1.00	1.72	1.16	4.07	2.77	2.36	1.61	8.50	1.88	3.63	2.11	1.85
July	1.12	1.08	.93	.99	1.34	1.11	3.25	2.43	2.36	1.49	9.87	2.01	5.60	1.96	1.85
Aug.	1.13	1.08	.94	1.00	1.35	1.12	3.25	2.43	2.36	1.86	10.62	2.14	6.30	2.15	1.85
Sept.	1.12	1.04	.96	1.00	1.53	1.14	2.01	2.18	2.36	2.43	8.35	2.23	4.62	2.18	1.80
Oct.	1.15	1.05	.99	1.01	2.56	1.25	2.01	2.18	2.36	2.30	7.88	2.21	3.43	1.90	1.80
Nov.	1.15	1.07	1.12	1.04	4.92	1.51	2.46	2.28	2.36	2.35	4.60	2.15	2.79	1.97	1.85
Dec.	1.12	1.06	1.18	1.06	4.59	1.48	2.46	2.28	2.36	2.35	3.55	2.15	2.83	2.00	1.85
Av.	1.13	1.08	1.04	1.03	2.07	1.20	3.58	2.18	2.40	2.11	5.72	2.25	3.42	2.25	1.89

1913-1918, Geological Survey; * Spot market; † Average realization, including contract shipments.
 ‡ Spot, from Coal Age quotations. § Spot, from American Metal Market quotations. ¶ Connellsville steam mine-run; strike in Pittsburgh district.



STEAM COALS

FOR

QUALITY and SERVICE



**WEBSTER SELECTED
SMITHING COAL**

Pennsylvania Coal & Coke Corporation

New York: 17 Battery Place

Philadelphia:
Land Title Building

Boston:
141 Milk Street

Hartford:
36 Pearl Street

Syracuse:
Union Building

Baltimore:
Continental Building

COAL PRODUCTION.

Net tons, 2,000 lbs.

	Bituminous coal.	Penna. anthracite.	Total coal.
1807-20.	3,000	12,000	15,000
1821		1,322	1,322
1830 ...	104,800	215,272	320,072
1840 ...	1,102,931	967,108	2,070,039
1850 ...	2,880,017	4,138,164	7,018,181
1860 ...	6,494,200	8,115,842	14,610,042
1870 ...	17,371,305	15,664,275	33,035,580
1880 ...	42,831,758	28,649,812	71,481,570
1885 ...	72,824,321	38,335,974	111,160,295
1890 ...	111,302,322	46,468,641	157,770,963
1895 ...	135,118,193	57,999,337	193,117,530
1900 ...	212,316,112	57,367,915	269,684,027
1903 ...	282,749,348	74,607,068	357,356,416
1904 ...	278,659,689	73,156,709	351,816,398
1905 ...	315,062,785	77,659,850	392,722,635
1906 ...	342,874,867	71,282,411	414,157,278
1907 ...	394,759,112	85,604,312	480,363,424
1908 ...	332,573,944	83,268,754	415,842,698
1909 ...	379,744,257	81,070,359	460,814,616
1910 ...	417,111,142	84,485,236	501,596,378
1911 ...	405,907,059	90,464,067	496,371,126
1912 ...	450,104,982	84,361,598	534,466,580
1913 ...	478,435,297	91,524,922	569,960,219
1914 ...	422,703,970	90,821,507	513,525,477
1915 ...	442,624,426	88,995,061	531,619,487
1916 ...	502,519,682	87,578,493	590,098,175
1917 ...	551,790,563	99,611,811	651,402,374
1918 ...	579,385,820	98,826,084	678,211,904
1919 ...	465,860,058	88,092,201	553,952,259
1920 ...	568,666,683	89,598,249	658,264,932
1921 ...	415,921,950	90,473,451	506,395,401
1922 ...	422,268,099	54,683,022	474,733,099
1923 ...	564,156,917	93,339,009	657,495,926
1924 ...	483,686,538	87,926,862	571,613,400
1925* ..	522,967,000	62,116,000	585,083,000

* Preliminary.

Totals through 1925:

Bituminous coal	13,340,015,633
Pennsylvania anthracite ...	3,478,757,760
Total coal	16,818,773,393

JAMISON COAL AND COKE COMPANY



Producers of "Farmington"
Low Sulphur Gas Coal.
New installations, including
shaking screens, picking
tables and loading booms,
insure perfect preparation
of this unsurpassed fuel.
Also producers of "Royal"
New River Smokeless Coal



GENERAL OFFICES
JAMISON BUILDING
GREENSBURG, PA.

WORLD'S COAL PRODUCTION.

Metric tons, 2,204.6 pounds. Lignite included. Total. %, U. S.

1911	1,189,000,000	37.9
1912	1,249,000,000	38.8
1913	1,342,000,000	38.6
1914	1,207,000,000	38.7
1915	1,193,000,000	40.5
1916	1,291,000,000	41.5
1917	1,356,000,000	43.6
1918	1,333,000,000	46.3
1919	1,173,000,000	42.8
1920	1,319,000,000	45.3
1921	1,134,600,000	40.4
1922	1,225,500,000	35.3
1923	1,359,900,000	43.9
1924	1,354,300,000	38.3

Large producers in 1924 sequence:

	1923.	1924.
United States	596,837,052	518,556,245
United Kingdom ..	280,430,369	271,405,414
Germany: Coal....	62,316,134	118,828,644
Lignite..	118,784,997	124,359,829
Saar ...	9,192,275	14,032,120
France: Coal	37,682,235	44,011,240
Lignite	861,435	944,080
Czechoslovakia:		
Coal	12,347,251	15,178,942
Lignite	16,265,530	20,459,690
Poland: Coal	36,097,997	32,224,680
Lignite ...	171,035	88,038
Japan: Coal	30,417,012	31,617,277
Lignite ...	151,462	176,764
Belgium	22,922,340	23,359,790
British India	19,972,376	21,516,491
China	19,955,000	20,969,000
Russia	14,504,300	13,918,000
Canada	15,413,409	12,372,300
New South Wales.	10,646,693	11,804,688
Union of S. Africa.	10,810,897	11,331,125
Unenumerated	44,120,201	47,145,643

Total 1,359,900,000 1,354,300,000

Hillman Coal & Coke Co.

First Nat'l. Bank Bldg., Pittsburgh

**Standard
Connellsville Coke**

Low Ash
Low Sulphur
Low Phosphorus

**BLAST FURNACE,
FOUNDRY, SMELTER**

**High Grade
Pittsburgh Coals**

Suitable For
Gas Making, Steam Making
or By-Product Coking

ANY RAILROAD DELIVERY

CONNELLVILLE COKE.

Compiled by Connellville Courier; Connellville and Lower Connellville region.

	Total Ovens.	Shipments, Net tons.	Average Price.
1880	7,211	2,205,946	\$1.79
1885	10,471	3,096,012	1.22
1890	16,020	6,464,156	1.94
1895	17,947	8,244,438	1.23
1898	18,643	8,460,112	1.55
1899	19,689	10,129,764	2.00
1900	20,954	10,166,234	2.70
1901	21,575	12,609,949	1.95
1902	26,329	14,138,740	2.37
1903	28,092	13,345,230	3.00
1904	29,119	12,427,468	1.75
1905	30,842	17,896,526	2.26
1906	34,059	19,999,326	2.75
1907	35,697	19,029,058	2.90
1908	37,842	10,700,022	1.80
1909	39,158	17,785,832	2.00
1910	39,137	18,689,722	2.10
1911	38,904	16,334,174	1.72
1912	38,884	20,000,873	1.92
1913	39,067	20,097,901	2.95
1914	37,965	14,075,638	2.00
1915	38,986	17,921,216	1.80
1916	38,362	21,654,502	2.58
1917	38,110	17,806,181	6.25
1918	37,061	16,138,590	7.25
1919	35,758	10,254,640	4.70
1920	35,678	10,750,227	8.30
1921	35,473	3,572,417	4.07
1922	35,042	5,675,000	7.15
1923	34,611	13,114,340	5.90
1924	33,070	6,668,560	3.85
1925	26,809	7,395,120	3.67

Production by quarters, 1925:

	Merchant.	Furnace.	Total.
1st	1,089,730	1,395,150	2,484,880
2nd	656,030	602,910	1,258,940
3rd	673,870	520,010	1,193,880
4th	1,251,930	1,205,490	2,457,420

Year	3,671,560	3,723,560	7,395,120
Connellsville total			4,074,930
Lower Connellsville total			3,320,190

Washington Coal & Coke Company

OFFICE OF SALES AGENT
FIRST NATIONAL BANK BUILDING
PITTSBURGH, PA

Manufacturers of
HIGHEST GRADE

Connellsville Coke

For Blast Furnaces and Foundries

SUPERIOR HIGH VOLATILE

BY-PRODUCT Coking Coal

The shipment of Washington Coking Coal to By-Product Ovens regularly for over 15 years has demonstrated the unusual merit in this Coal for By-Product oven use

We sell nothing but our own products, which insures customers uniform quality.

GENERAL OFFICES
DAWSON, Fayette County, Pa.

CONNELLSVILLE FURNACE COKE.

Spot or prompt, averaged from daily quotations, per net ton, f.o.b. ovens.

	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	2.60	1.40	1.88	3.85	1.88	1.55	3.14	9.44	6.00	5.84	6.00	5.10	2.85	8.30	3.85	3.85
Feb.	2.25	1.47	1.84	2.60	1.90	1.55	3.41	10.57	6.00	4.72	6.00	4.80	3.10	7.30	4.15	3.75
Mar.	2.00	1.57	2.04	2.47	1.92	1.53	3.45	9.58	6.00	4.05	6.00	4.43	3.38	7.35	4.05	3.50
Apr.	1.80	1.58	2.53	2.20	1.90	1.55	2.45	8.00	6.00	3.71	11.10	3.60	4.44	6.25	3.80	3.10
May	1.70	1.50	2.37	2.15	1.83	1.50	2.34	8.40	6.00	3.80	14.50	3.40	6.50	5.25	3.57	3.05
June	1.65	1.45	2.21	2.20	1.80	1.50	2.54	11.20	6.00	3.92	15.60	3.12	7.50	5.00	3.15	2.90
July	1.65	1.45	2.34	2.50	1.75	1.67	2.65	12.32	6.00	4.06	18.00	2.95	11.35	4.60	3.00	2.85
Aug.	1.65	1.53	2.25	2.50	1.74	1.54	2.75	13.42	6.00	4.32	17.78	2.95	13.35	4.65	3.02	3.15
Sept.	1.60	1.50	2.42	2.37	1.70	1.66	2.94	11.85	6.00	4.42	16.85	3.26	11.50	4.60	3.00	3.65
Oct.	1.55	1.50	3.46	2.10	1.65	2.18	5.69	6.00	6.00	4.60	14.95	3.35	9.70	3.85	3.00	6.30
Nov.	1.45	1.50	3.95	1.88	1.60	2.35	6.91	6.00	6.00	6.05	8.54	3.15	7.35	3.90	3.10	5.60
Dec.	1.50	1.68	4.00	1.77	1.60	2.85	9.00	6.00	6.00	6.81	6.25	2.90	7.75	3.90	3.80	4.45

Av. 1.78 1.51 2.61 2.38 1.77 1.79 3.94 9.40 6.00 4.69 11.80 3.58 7.40 5.41 3.46 3.85

Note—Government limit, \$6.00, September 24, 1917, to January 31, 1919, and December 8, 1919, to April 1, 1920.

Ten-year average, 1904-1913, \$2.18.



SALES OFFICES:

SEMET-SOLVAY COMPANY

BUFFALO, N. Y.
GENESEE BLDG.

DETROIT, MICH.
BUHL BLDG.

ASHLAND BY-PRODUCT COKE CO.

CINCINNATI, O.
DIXIE TERMINAL
BLDG.

ASHLAND, KY.
ASHLAND NATIONAL
BANK BLDG.

CLEVELAND, O.
UNION TRUST
BLDG.

CONNELLSVILLE FOUNDRY COKE.

Selected 72-hour foundry coke, spot or prompt, per net ton, f.o.b. ovens, averaged from daily quotations.

	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	3.05	2.00	2.10	4.30	2.48	2.10	3.90	10.93	7.00	6.85	7.00	6.75	4.00	9.25	5.20	5.05
Feb.	2.75	2.10	2.15	3.10	2.47	2.15	4.00	12.10	7.00	5.54	7.00	6.15	4.15	8.50	5.25	4.65
Mar.	2.60	2.15	2.50	3.15	2.46	2.13	3.85	11.90	7.00	4.75	7.00	5.63	4.50	8.60	5.15	4.35
Apr.	2.40	2.10	2.75	3.15	2.43	2.13	3.75	10.12	7.00	4.63	13.10	5.15	5.21	7.80	5.00	4.20
May	2.25	2.00	2.65	3.00	2.40	2.15	3.50	9.90	7.00	4.65	14.00	5.10	6.75	6.50	4.87	4.00
June	2.20	1.95	2.40	2.90	2.40	2.20	3.35	11.70	7.00	4.75	16.00	4.67	7.85	5.85	4.65	3.95
July	2.15	1.90	2.50	2.90	2.30	2.25	3.30	13.42	7.00	5.08	19.00	4.20	11.70	5.60	4.45	3.90
Aug.	2.15	1.90	2.45	3.00	2.30	2.28	3.30	14.25	7.00	5.64	19.15	4.20	15.00	5.55	4.25	4.05
Sept.	2.15	1.85	2.85	2.90	2.25	2.42	3.45	12.55	7.00	6.16	18.25	4.34	13.25	5.90	4.25	4.25
Oct.	2.10	1.85	3.75	2.75	2.20	2.62	5.35	7.00	7.00	6.24	17.25	4.40	11.90	5.30	4.25	6.50
Nov.	2.00	1.90	4.20	2.65	2.10	3.10	9.16	7.00	7.00	7.05	10.60	4.17	8.70	5.25	4.25	7.00
Dec.	2.00	1.95	4.50	2.60	2.05	3.50	10.35	7.00	7.00	7.28	7.75	4.00	8.15	5.25	4.60	5.50
Av.	2.32	1.97	2.90	3.03	2.32	2.42	4.78	10.66	7.00	5.72	13.01	4.90	8.43	6.61	4.68	4.78

Note—Government limit, \$7.00, November 9, 1917, to January 31, 1919, and December 8, 1919, to April 1, 1920.

"A Good Proposition Always"
**DEBEVOISE-ANDERSON
COMPANY, Inc.**

114 LIBERTY STREET, NEW YORK

Boston -- Philadelphia

COKE - By Product & Bee Hive

For Every Possible Purpose

Foundry Crushed

Furnace Domestic

PIG IRON - Foundry - Forge
Malleable - Basic

"SUPERIOR" Charcoal Iron

COAL - Anthracite - Bituminous

ORE

American Agents

Sota & Aznar

Bilbao, Spain

Limestone - Ferro Alloys

COKE PRODUCTION—Short tons.

	Beehive.	By-product.	Total.
1895	13,315,193	18,521	13,333,714
1900	19,457,621	1,075,727	20,533,348
1905	28,768,781	3,462,348	32,231,129
1910	34,570,076	7,138,734	41,708,810
1911	27,703,644	7,847,845	35,551,489
1912	32,868,435	11,115,164	43,983,599
1913	33,584,830	12,714,700	46,299,530
1914	23,335,971	11,219,943	34,555,914
1915	27,508,255	14,072,895	41,581,150
1916	†35,464,224	19,069,361	54,533,585
1917	33,167,548	22,439,280	55,606,828
1918	30,480,605	25,997,580	56,478,185
1919	19,042,936	25,137,621	44,180,557
1920	20,511,092	30,833,951	51,345,043
1921	5,538,042	19,749,580	25,287,622
1922	8,573,467	28,550,545	37,124,012
1923	19,379,870	37,597,664	†56,977,534
1924	10,286,037	33,983,568	44,269,605
1925* . . .	10,716,000	†39,984,000	50,700,000

* Preliminary. † Maximum.

Number of ovens completed at end of year.

	Beehive.	Retort.
1900	57,309	1,085
1901	62,786	1,165
1902	67,406	1,663
1903	77,378	1,956
1904	80,689	2,910
1905	84,461	3,103
1906	90,354	3,547
1907	95,996	3,684
1908	97,419	3,799
1909	99,993	3,989
1910	100,362	4,078
1911	99,255	4,624
1912	97,019	5,211
1913	96,962	5,488
1914	93,946	5,809
1915	93,110	6,268
1916	91,581	7,283
1917	88,027	7,869
1918	84,635	9,279
1919	82,560	10,379
1920	75,298	10,881
1921	66,014	11,164
1922	63,958	11,212
1923	62,349	11,156
1924	60,432	11,413

Dec. 31, 1925, 11,705 retort ovens, nominal annual capacity, 50,392,275 net tons coke.

UNITED STATES REFRACTORIES CORPORATION

MOUNT UNION
PENNA.

MANUFACTURERS OF HIGH GRADE

SILICA BRICK
SILICA CEMENT
FIRE BRICK
FIRE CLAY

Our Brand "MT. U" - (Silica Brick)
"USRCO" - (Fire Brick)

When in need of Refractories
Where Quality Counts, specify

"MT. U" and "USRCO"

Capacity 70,000,000

BY-PRODUCTS OBTAINED FROM COKE OVEN OPERATIONS

1924: by-product coke 33,983,568 net tons; coal used, 49,061,339 net tons of value \$202,428,797.

	Unit.	Production.		Sales	
		Quantity.	Quantity.	Value.	Per Unit.
Tar	gallons	422,074,326	209,979,999	\$ 9,661,563	\$.046
Ammonia: Sulphate	pounds	893,127,071	931,329,570	22,522,248	.024
Ammonia liquor (NH ₃ content) .....	.....	49,029,524	47,665,811	4,656,428	.098
Total sulphate equivalent	pounds	1,089,245,167	1,121,992,814	.....	...
Gas (incl. used for retorts and wasted)	M. cu. ft.	541,101,050	.....	.....	...
Used under boilers, etc. ....	.....	.....	29,794,046	1,729,013	.058
Used in steel or related plants .....	"	.....	187,171,883	21,007,607	.112
Distributed through city mains .....	"	.....	65,676,867	23,486,416	.358
Sold for industrial use .....	"	.....	18,561,057	3,561,911	.192
Total .....	.....	.....	301,203,853	49,784,947	.165
Light oils and derivatives:					
Crude light oil	gallons	*128,956,955	7,840,582	652,467	.083
Benzol, crude and refined †	"	20,429,515	20,024,902	4,071,221	.203
Motor benzol	"	71,474,321	70,636,930	10,732,087	.152
Toluol: Crude	"	234,244	245,079	51,041	.208
Refined	"	2,951,187	2,986,423	718,641	.241
Solvent naphtha	"	4,474,220	3,884,585	724,874	.187
Other light oil products	"	1,364,528	1,077,842	78,934	.073
Naphthalene: Crude	pounds	8,378,666	7,891,116	116,305	.015
Refined .....	.....	13,302	327,957	11,903	.036
Value of all by-products sold, exclusive of \$1,491,475 breeze				\$103,840,550	...
* Refined on the premises to make the derived products shown, 125,580,743 gallons. † Included under refined benzol are the sales of two plants, 2,284,000 gallons, value \$301,565, probably used as motor benzol.					

Bell 'Phone
Grant 957

P. & A Phone
Main 1131



Manufacturers of High Grade

"SALINA"
FIRE CLAY BRICK

"YOUGH"
SILICA BRICK

Shippers of
GANISTER

Fire Brick Works
Salina, Pa.
Conemaugh Div. P. R. R.

Silica Brick Works
Childs, Pa.
Youghio. Div. P. & L. E.

Ganister Quarries
Brookes Mills, Blair Co., Pa.
Middle Div., P. R. R.

Office:
**ROOM 2244 OLIVER BUILDING
PITTSBURGH, PA.**

OIL AND GAS PRODUCTION.

Marketed production; petroleum in barrels of 42 gallons, natural gas in thousands of cubic feet.

	Petroleum.	Natural gas.
1859	2,000	.....
1860	500,000	.....
1870	5,260,745	.....
1880	26,286,123	.....
1890	45,823,572	.....
1900	63,620,529	.....
1910	209,557,248	.....
1914	265,762,535	591,866,733
1915	281,104,104	628,578,842
1916	300,767,158	753,170,253
1917	335,315,601	795,110,376
1918	355,927,716	721,000,959
1919	378,367,000	745,916,000
1920	442,929,000	798,210,000
1921	472,183,000	662,052,000
1922	557,531,000	762,546,000
1923	732,407,000	1,006,976,000
1924	713,940,000	1,141,521,000
1925	758,000,000	.....

Total petroleum:

Through 1925, 8,663,929,000 barrels.

Fuel Production in Heat Units.

Weighted average of all coal produced = 14,250 B.t.u. per pound.

Weighted average of all petroleum produced = roughly, 19,000 B.t.u. per pound which at about .9 sp. gr. = about 6,000,000 B.t.u. per bbl. of 42 gal.

Weighted average of all natural gas produced = about 1,025 B.t.u. per cu. ft.

Production in 1924, estimated heat equivalent and proportion:

	Trillion B. t. u.*	%
571,613,400 net tons coal	= 16,291	74.9
713,940,000 bbl. petroleum	= 4,284	19.7
1,141,521,000 M. cu. ft. gas	= 1,170	5.4
Total	21,745	100.0

* Twelve cyphers omitted.

HARBISON-WALKER REFRACTORIES CO.

*World's Largest Pro-
ducers of Refractories*

Manufacturers of
Highest Grade Silica,
Magnesia, Chrome, Fireclay,
and Acid-Proof Brick

Dead-Burned
Magnesite
and
Chrome Ore

THERMOLITH

The High Temperature Cement for Fireclay Brick
"Makes the Weakest Point the Strongest"

General Offices:
PITTSBURGH, PA., U. S. A.

SALES OFFICES:
New York Philadelphia Chicago
Birmingham Pittsburgh
Cleveland Buffalo
Detroit Montreal

PIG IRON PRODUCTION.

(Tons, 2,240 lbs.)

1860 ...	821,223*	1902 ...	17,821,307*
1861 ...	653,164	1903 ...	18,009,252*
1862 ...	703,270	1904 ...	16,497,033
1863 ...	846,075*	1905 ...	22,992,380*
1864 ...	1,014,282*	1906 ...	25,307,191*
1865 ...	831,770	1907 ...	25,781,361*
1866 ...	1,205,663*	1908 ...	15,936,018
1867 ...	1,305,023*	1909 ...	25,795,471*
1868 ...	1,431,250*	1910 ...	27,303,567*
1869 ...	1,711,287*	1911 ...	23,649,547
1870 ...	1,665,179	1912 ...	29,726,937*
1871 ...	1,706,793	1913 ...	30,966,152*
1872 ...	2,548,713*	1914 ...	23,332,244
1873 ...	2,560,963*	1915 ...	29,916,213
1874 ...	2,401,262	1916 ...	39,434,797*
1875 ...	2,023,733	1917 ...	38,621,216
1876 ...	1,868,961	1918 ...	39,054,644
1877 ...	2,066,594	1919 ...	31,015,364
1878 ...	2,301,215	1920 ...	36,925,987
1879 ...	2,741,853*	1921 ...	16,688,126
1880 ...	3,835,191*	1922 ...	27,219,904
1881 ...	4,144,254*	1923 ...	40,361,146*
1882 ...	4,623,323*	1924 ...	31,405,790
1883 ...	4,595,510	1925 est.	36,650,000
1884 ...	4,097,868		
1885 ...	4,044,526	Totals.	
1886 ...	5,683,320*	1825-34 .	1,500,000
1887 ...	6,417,148*	1835-44 .	2,700,000
1888 ...	6,489,738*	1845-54 .	6,400,000
1889 ...	7,603,642*	1855-64 .	7,619,436
1890 ...	9,202,703*	1865-74 .	17,367,903
1891 ...	8,279,870	1875-84 .	32,298,502
1892 ...	9,157,000	1885-94 .	70,659,846
1893 ...	7,124,502	1895-04 .	135,111,940
1894 ...	6,657,388	1905-14 .	250,790,868
1895 ...	9,446,308*		
1896 ...	8,623,127	1825-14 .	524,448,495
1897 ...	9,652,680*	1915-24 .	330,643,187
1898 ...	11,773,934*		
1899 ...	13,620,703*	1825-24 .	855,091,682
1900 ...	13,789,242*		
1901 ...	15,878,354	* Record years.	

AVOID DISINTEGRATION *LINE WITH THE ASHLAND LINE*

Three brands made exclusively from highly refractory Kentucky flint and semi-flint fire clays, containing less than 5% of fluxing elements.



ASHLAND CROWN, EMPIRE CROWN & ASHLAND SAVAGE

And for unusually severe conditions that quickly ruin ordinary high grade fire brick

ASHLAND ASHFRAX

a high alumina, super refractory brick, fusing around 3400° F.

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Havana, Cuba

ASHLAND FIRE BRICK CO.

INCORPORATED 1886

PRODUCTION OF PIG IRON BY GRADES.

Gross tons, 2,240 pounds. Bessemer includes low phosphorus.

	Basic.	Bessemer.	Foundry.	Malleable.	Forge.	All other.	Total.
1906.....	5,018,674	13,840,518	4,773,011	699,701	597,420	377,867	25,307,191
1907.....	5,375,219	13,231,620	5,151,209	920,290	683,167	419,856	25,781,361
1908.....	4,010,144	7,216,976	3,637,622	414,957	457,164	199,155	15,936,018
1909.....	8,250,225	10,557,370	5,322,415	658,048	725,624	281,789	25,795,471
1910.....	9,084,608	11,245,642	5,260,447	843,123	564,157	305,590	27,303,567
1911.....	8,520,020	9,409,303	4,468,940	612,533	408,841	229,910	23,649,547
1912.....	11,417,886	11,664,015	5,073,873	825,643	469,183	276,337	29,726,937
1913.....	12,536,693	11,590,113	5,220,343	993,736	324,407	300,860	30,966,152
1914.....	9,670,687	7,859,127	4,533,254	671,771	361,651	235,754	23,332,244
1915.....	13,093,214	10,523,306	4,843,899	829,921	316,214	309,659	29,916,213
1916.....	17,684,087	14,422,457	5,553,644	921,486	348,344	504,779	39,434,797
1917.....	17,671,662	13,714,732	5,328,258	1,015,579	345,707	545,278	38,621,216
1918.....	18,646,174	13,024,966	5,145,260	1,117,914	393,932	726,398	39,054,644
1919.....	14,494,131	9,975,934	4,916,758	1,009,049	271,286	348,206	31,015,364
1920.....	16,737,722	12,062,084	5,957,782	1,310,951	318,048	539,400	36,925,987
1921.....	7,753,071	5,595,215	2,568,136	457,340	112,748	201,616	16,688,126
1922.....	13,841,367	7,813,203	3,967,431	1,051,495	214,210	323,198	27,219,904
*1923.....	19,795,590	11,677,509	6,470,013	1,571,064	327,430	519,540	40,361,146
1924.....	15,999,012	8,172,297	5,623,124	973,158	255,961	382,238	31,405,790

McKEEFREY & CO.

LEETONIA, OHIO

Pig Iron

Limestone

Connellsville

Coke

Coal

PIG IRON PRODUCTION.

(Tons, 2 240 lbs.)

Production by fuels, 1924:

Coke (and bituminous coal)	31,193,080
Anthracite and coke	0
Charcoal (cold blast)	0
Charcoal (hot and warm blast) . .	212,710
Total	31,405,790
Maximum anthracite, 1890	2,186,411
Maximum charcoal, 1890	628,145

Consumption of materials, 1924:

Ore, briquettes etc. tons	55,675,494
Scrap, scale, cinder, etc., tons . .	4,601,839
Limestone, tons	13,112,859
Coke, net tons	34,303,060
Bituminous coal, net tons	31,579
Anthracite, tons	0
Charcoal, bushels	20,365,247

Consumption per ton of iron made:

Ore briquettes, etc., tons	1.781
Scrap, scale, cinder, etc., ton	.147
Limestone, pounds	939.7
Coke and bituminous coal, pounds . .	2212.0
Charcoal, bushels (about 20 lbs.) . .	95.7

Total pig iron by half years:

	First half.	Second half.	Total.
1915	12,233,791	17,682,422	29,916,213
1916	19,619,522	19,815,275	39,434,797
1917	19,258,235	19,362,981	38,621,216
1918	18,227,730	20,826,914	39,054,644
1919	16,278,175	14,737,189	31,015,364
1920	18,435,602	18,490,385	36,925,987
1921	9,530,981	7,157,145	16,688,126
1922	12,191,011	15,028,893	27,219,904
1923	21,016,475	19,344,671	40,361,146
1924	17,514,485	13,891,305	31,405,790
1925	19,158,350	*17,500,000	*36,650,000

* Estimated.

Established 1882

C. W. LEAVITT & Co.

30 Church Street, New York

Sole U. S. Agents

"CARLTON" BRAND

ENGLISH

FERRO MANGANESE

and

SPIEGELEISEN

We also solicit your orders for

ANTIMONY, ANTIMONIAL LEAD

ALUMINUM, TIN, TUNGSTEN

- PIG IRON -

and

CHROME, IRON and MANGANESE ORE

Cable Address: "HUGSCAM"

FERROMANGANESE IMPORTS AND PRODUCTION.

Ferromanganese, 80 per cent. gross tons; imports of manganese ore and oxide are general imports; of ferromanganese, imports for consumption to January 1, 1916, general imports thereafter; ferromanganese average value per ton is at foreign shipping port, no freight or duty.

	Manganese ore imports.	Ferromangan- ese imports.	Average value.	Ferromangan- ese production.	Production plus imports.
1910	242,348	114,278	37.99	71,376	185,654
1911	176,852	80,263	37.56	74,482	154,745
1912	300,661	99,137	39.41	125,378	224,515
1913	345,090	128,070	44.37	119,495	247,565
1914	283,294	82,997	43.61	106,083	189,080
1915	313,985	55,263	60.33	149,521	204,784
1916	576,321	90,928	101.62	221,532	312,460
1917	629,972	45,381	134.58	260,125	305,506
1918	491,303	27,168	156.75	333,027	360,195
1919	333,344	33,022	129.72	185,357	218,379
1920	606,937	59,254	131.22	295,447	354,701
1921	401,354	9,057	98.09	103,755	112,812
1922	374,451	*94,658	*64.39	150,115	*244,773
1923	*206,048	*88,570	*97.16	247,031	*335,601
1924	*254,458	*47,811	*84.81	194,243	*242,054
1925	*299,950	*75,724	*90.73	252,632	*328,356

* Since Sept. 22, 1922, manganese ore and ferromanganese tonnages show only the manganese content imported, except Cuban ore. Details of ore on another page.

H. HOLLESEN, Inc.

NEW YORK

Exporters-Merchants-Importers

Cable Address: HOLLESENCO

CODES: Scott's 10th Edition; Western Union 5 letter;

A B C-5th and 6th; Liebers; Bentley's; Marconi;

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ORES

Iron, Manganese, Chrome, Tungsten,
Molybdenum, Antimony, Lead, Tin, Zinc,
Barytes, Copper, Pyrites, Fluor Spar.

METALS

Aluminum, Antimony, Copper, Lead,
Nickel, Tin, Zinc,
Non-ferrous Scrap.

PIG IRON

Foundry, Basic, Bessemer, Silvery,
Malleable, Low Phosphorus, Spiegeleisen.

STEEL SCRAP

Steel and Iron Scrap for melting and
rerolling; Old Axles, Car Wheels,
Wire Shorts, Croppings.

STEEL

Ingots, Blooms, Billets, Slabs,
Sheet Bars, Wire Rods, Plates, Rails.

STEEL PRODUCTS

Sheets, Tin Plates, Tubes and Pipes,
Rounds, Squares, Flats, Concrete Bars,
Nuts, Bolts, Rivets, Nails, Angles,
Structurals, Wire Products,
High Speed Steel Bars, Tool Steel,
Strip Steel, Cotton Ties, Hoops, Bands.

ALLOYS

Ferro Manganese, Silicon, Chrome,
Tungsten, Molybdenum, Vanadium.

FERROMANGANESE.

Averaged from daily quotations, carloads to 100 tons f.o.b. Baltimore through 1916; delivered, 1917 to 1921 inclusive; 80%, except May 16, 1918, to November 11, 1918, 70%.

	*1914	*1915	*1916	1917	1918	1919	*1920	1921	1922	e1923	e1924	e1925
Jan.	43.42	68.00	115.40	175.00	250.00	190.00	147.00	105.00	c58.00	103.00	108.75	113.45
Feb.	38.33	68.00	139.00	210.00	250.00	160.00	160.00	90.00	c61.00	106.00	107.50	115.00
Mar.	38.40	78.00	175.00	270.00	250.00	140.00	172.50	90.00	c62.50	117.00	107.50	115.00
Apr.	38.00	78.00	175.00	325.00	250.00	120.00	191.50	90.00	c68.00	116.50	107.50	115.00
May	38.00	91.00	175.00	400.00	250.00	110.00	200.00	85.00	c70.00	123.00	107.50	115.00
June	38.00	100.00	175.00	400.00	250.00	110.00	200.00	75.00	c68.50	125.00	107.50	115.00
July	37.50	100.00	175.00	400.00	250.00	110.00	200.00	70.00	c69.00	120.00	106.25	115.00
Aug.	b111.00	100.00	175.00	375.00	250.00	105.00	187.00	68.50	c70.00	117.50	95.90	115.00
Sept.	83.00	107.50	165.00	360.00	250.00	100.00	170.00	66.00	cd77.00	112.00	95.00	115.00
Oct.	68.00	105.00	165.00	300.00	250.00	105.00	160.00	60.00	c100.00	109.00	99.00	115.00
Nov.	68.00	105.00	165.00	250.00	250.00	112.50	155.00	60.00	e100.00	107.50	107.00	115.00
Dec.	68.00	106.00	170.00	245.00	200.00	123.08	125.00	59.00	e100.00	107.50	106.35	115.00

Av. 55.80 92.21 164.12 309.17 245.83 132.16 172.33 76.54 75.33 113.67 104.65 114.87

* Contract prices. (b) Prompt. (c) Seaboard. (d) Tariff on Sept. 22, 1922, 1 $\frac{3}{4}$ c per pound on manganese content. (Free previously, since Oct. 4, 1913.) (e) F.o.b. furnace.

FERRO-ALLOYS

MINERALS

ORES

MANGANESE ORES
MANGANESE PEROXIDE
CHROME ORE

FLUORSPAR

Lumps and Gravel

WOLFRAM ORE
MOLYBDENITE

ALLOYS AND METALS

FERRO-CHROME **FERRO-SILICON**
FERRO-PHOSPHORUS **FERRO-TUNGSTEN**
TUNGSTEN METAL POWDER
MANGANESE METAL **COBALT METAL**
CHROMIUM METAL **PHOSPHOR-COPPER**
SILICO-MANGANESE

EVERITT & CO., Ltd.
40 CHAPEL ST., LIVERPOOL

Cables: "PERSISTENT"

SPIEGELEISEN.

Imports for consumption, with average stated value (at foreign port) and domestic production, calendar years, gross tons.

	Imports.	Value.	Production.	Supply.
1908	4,579	\$27.31	111,376	115,955
1909	16,921	20.89	142,831	159,752
1910	25,383	19.27	153,055	178,438
1911	20,970	19.33	110,236	131,206
1912	1,015	27.68	96,346	97,361
1913	77	28.22	110,338	110,415
1914	2,870	24.79	79,935	82,805
1915	200	25.55	97,885	98,085
1916	0	....	194,002	194,002
1917	3,968	73.49	192,985	196,953
1918	1,969	115.80	283,853	285,822
1919	27	37.70	84,246	84,273
1920	5,234	53.10	111,449	116,683
1921	307	34.13	56,423	56,730
1922	307	34.11	73,443	73,750
1923	4,669	35.51	129,686	134,355
1924	7,433	31.69	107,066	114,499
1925	1,090	36.55	65,761	66,851

MANGANESE ORE PRODUCTION.

Maximum production prior to 1917, ore 35% and over, 1887, 34,524 gross tons.

Ore shipped or marketed, gross tons:

	35%	10-35%	5-10%
1912	1,664	40,863	10,654
1913	4,048	51,512	7,891
1914	2,635	91,666	6,599
1915	9,613	180,953	14,782
1916	31,474	453,853	90,473
1917	129,405	730,759	130,185
1918	305,869	916,163	254,299
1919	55,322	309,834	123,809
1920	94,420	481,249	286,415
1921	13,531	8,439	62,670
1922	13,404	344,674	251,614
1923	31,500	319,666	1,072,457
1924	56,515	286,470	587,026
1925	97,500	265,000	1,156,000

Frank Samuel S. M. Tomlinson S. A. Cochran

Frank Samuel & Co.

HARRISON BUILDING

PHILADELPHIA, PA., U. S. A.

Importers - Exporters

**IRON, STEEL
ORES, ALLOYS**

Ferro-Manganese Ferro-Silicon
Spiegeleisen Ferro-Chrome
Ferro Alloys

ORES, Manganese and Iron
Chrome Ore, Lump and
Ground to Special Sizes

**SPECIAL LOW PHOSPHORUS MELTING
BARS** for crucible steel—guaranteed
phosphorus and sulphur.

SCRAP IRON, of all classes, for Rolling Mills
STEEL SCRAP, ordinary and guaranteed,
for melting purposes.

MANGANESE ORE IMPORTS.

Imports of manganese ore, gross tons of manganese content and average value per ton at foreign port, except Cuba (duty free) is in tons of ore.

	1923		1924		1925	
	Tons.	Value.	Tons.	Value.	Tons.	Value.
Norway	0	.....	0	.....	500	\$62.58
Russia in Europe .	11,670	\$22.52	41,097	\$25.57	110,847	35.94
Spain	0	.....	0	.....	3,690	31.71
United Kingdom .	287	126.74	5	41.80	1,572	76.20
Canada	0	.....	60	53.70	1,340	47.25
Brazil	88,036	16.53	54,938	25.35	109,650	25.13
Chile	789	21.26	1,178	32.14	3,434	18.80
India	25,568	24.46	54,566	24.56	23,504	23.44
Hong Kong	20	51.00	278	31.80	622	36.22
British W. Africa .	27,965	10.63	23,034	11.56	31,750	10.15
Turkey in Europe .	38,139	23.97	52,557	27.20	0	.....
Miscellaneous	4,512	23.36	3,680	43.30	296	63.62
Total	196,986	18.97	231,393	24.59	287,205	28.03
Cuba (tons ore) ..	9,062	15.12	23,065	15.08	12,745	19.87

C. TENNANT SONS AND COMPANY

of New York

19 West 44th St., New York City

***Merchants - Importers
Exporters***

**Non-Ferrous Metals
and Ores**

Iron and Steel

Ferro-Alloys

Rare Metals and Ores

Industrial Chemicals

Single Nickel Salts

Griplock non-stretch wire strapping

STANDARD ANALYSES.

Steel Making and Malleable Iron.

	Silicon.	Sulphur.	Phosphorus.
Basic (Must be cast in chills)	Not over 1.00	Not over .05	(Note A)
Malleable (Note B)	*.75-2.00	Not over .05	Not over .20
Bessemer	1.00-2.00	Not over .05	Not over .10
Low phosphorus	1.00-2.00	Not over .04	Not over .04
Washed metal .....	.....	*.015-.040	*.015-.040

* As specified by buyer.

Note A.—Virginia, Southern and some Eastern basic, not over 1.00; Northern, all districts, not over .40; some valley furnaces, not over .25.

Note B.—Standard, guaranteed under .80 in manganese.

Standard No. 2 Foundry Iron.

	Silicon.	Sulphur.	Phosphorus.	Manganese.
Central West, valleys, Central lake ports, Chicago; standard	1.75-2.25	Not over .05	.40-.80	About
Same districts, extra strong or car wheel	1.25-1.75	"	not over .30	.50-1.00
Buffalo district	1.75-2.25	"	.40-.80	.75-1.25
Eastern points	1.75-2.25	"	.50-.90	.50-1.00
Standard Virginia	1.75-2.25	"	.40-.80	.50-.90
Virginia high manganese	1.75-2.25	"	.40-1.00	*1.00-4.50
Standard Alabama	1.75-2.25	"	.80-1.10	.20-.50
Alabama high manganese	1.75-2.25	"	.80-1.00	.50-1.00
Standard Tennessee (Note A)	1.75-2.25	"	1.25-1.75	.20-.80

* As specified.

Note A.—This analysis now made by several Northern furnaces.

A difference of .50 in silicon usually made between grades coming from same district.

All iron sold per ton 2,240 lbs., f.o.b. furnace. The sand ton of 2,268 lbs., has disappeared.



High Grade Metals and Alloys

Ferro Chromium	60% Cr.
Ferro Vanadium	35 - 40% V.
Ferro Tungsten	75 - 80% W.
FERRO TITANIUM	— 25% Ti.
Pure Cobalt	97 - 98% Co.
Pure Chromium	97 - 98% Cr.
Pure Manganese	95 - 98% Mn.

(The Thermit alloys mentioned above
are carbide-free and technically
carbon-free.)

We also produce the following Manganese
Alloys:

**Titanium, Aluminum, Copper
and Boron**

Write for metal booklet No. 2066

METAL & THERMIT CORPORATION
120 BROADWAY, NEW YORK

Boston
Pittsburgh

Chicago

Toronto
S. San Francisco

BESSEMER PIG IRON.

Standard Bessemer pig iron, delivered Pittsburgh; quarterly and annual averages:

	1st.	2nd.	3rd.	4th.	Year.
1886 ..	19.63	18.80	17.78	19.67	18.96
1887 ..	22.35	21.73	21.58	19.80	21.36
1888 ..	17.75	16.82	17.40	17.55	17.38
1889 ..	16.53	16.08	17.28	22.08	18.00
1890 ..	22.13	18.13	18.24	16.98	18.87
1891 ..	16.09	16.18	15.91	15.28	15.87
1892 ..	15.20	14.26	13.88	13.79	14.28
1893 ..	13.47	13.48	12.60	11.16	12.68
1894 ..	10.56	11.57	11.57	10.57	11.06
1895 ..	10.06	11.55	15.34	13.95	12.73
1896 ..	12.32	12.70	11.36	11.64	12.00
1897 ..	10.56	9.57	9.56	10.23	9.98
1898 ..	10.10	10.35	10.46	10.36	10.31
1899 ..	12.82	16.63	21.83	24.30	18.89
1900 ..	24.90	22.30	14.85	13.32	18.84
1901 ..	14.62	16.12	16.00	16.17	15.73
1902 ..	16.98	19.53	21.45	22.32	20.07
1903 ..	21.35	19.92	18.32	14.96	18.64
1904 ..	13.70	13.32	12.64	14.96	13.66
1905 ..	16.40	16.01	15.33	17.61	16.33
1906 ..	18.14	18.14	18.84	22.21	19.33
1907 ..	22.86	23.50	23.04	21.07	22.62
1908 ..	18.25	17.11	16.25	16.54	17.04
1909 ..	16.77	15.90	17.33	19.85	17.46
1910 ..	19.23	17.37	16.14	15.90	17.16
1911 ..	15.90	15.90	15.90	15.24	15.74
1912 ..	15.00	15.13	15.63	17.98	15.94
1913 ..	18.13	17.68	16.65	16.18	17.16
1914 ..	15.03	14.90	14.90	14.75	14.90
1915 ..	14.61	14.60	15.96	18.24	15.85
1916 ..	21.67	21.95	22.06	30.30	24.00
1917 ..	36.52	47.28	53.42	37.25	42.62
1918 ..	37.19	36.22	36.60	36.60	36.65

Note.—Valley-Pittsburgh freight irregular prior to 1899, then 75 cents; January 1, 1900, 90 cents; February 1, 1901, 75 cents; January 1, 1903, 85 cents; June 1, 1907, 90 cents; Oct. 26, 1914, Mahoning valley, and Nov. 16, 1914, Shenango valley, 95 cents; June 1, 1918, \$1.10; June 25, 1918, \$1.40.

JOHN A. SAVAGE & CO.

IRON ORE AND PIG IRON

DULUTH

—

IRON ORE

PIG IRON

—

Address Pig Iron
Inquiries to

JOHN A. SAVAGE & CO.

821 DIXIE TERMINAL
CINCINNATI

BESSEMER PIG IRON, VALLEY.

Averaged from daily quotations, f.o.b. valley furnaces, ordinary deliveries.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. .	14.19	17.25	14.06	13.75	21.00	35.00	36.30	32.20	37.65	32.00	19.62	27.50	23.00	22.73
Feb. .	14.00	17.25	14.13	13.64	20.50	35.00	36.30	32.20	41.67	29.63	19.40	27.75	23.72	22.71
Mar. .	14.11	17.20	14.20	13.60	20.67	36.70	36.13	30.73	42.00	26.70	19.02	29.94	23.29	22.23
Apr. .	14.21	17.00	14.00	13.60	21.00	41.36	35.20	27.95	42.21	25.00	20.88	31.00	22.87	21.38
May .	14.24	17.00	14.00	13.60	21.00	44.12	35.20	27.95	42.54	24.32	25.08	30.23	22.25	20.26
June .	14.25	16.34	14.00	13.75	21.00	53.50	35.20	27.95	43.23	22.88	25.00	28.73	21.32	19.12
July .	14.26	15.86	14.00	13.98	21.00	55.56	35.20	27.95	45.58	21.34	25.00	26.82	20.27	19.00
Aug. .	14.59	15.63	14.00	15.12	21.00	54.26	35.20	27.95	47.35	20.00	27.74	26.50	20.00	19.00
Sept.	15.35	15.75	14.00	15.93	21.33	47.58	35.20	27.95	48.50	20.00	33.76	26.50	20.00	19.24
Oct. .	16.87	15.67	13.97	16.00	23.81	36.30	35.20	27.95	47.67	20.00	33.23	25.33	20.00	19.57
Nov. .	17.10	15.23	13.75	16.67	29.40	36.30	35.20	29.44	40.84	20.00	31.70	23.82	20.17	20.82
Dec. .	17.25	14.95	13.75	19.19	34.84	36.30	35.20	35.27	35.00	20.00	27.78	23.00	21.58	21.00
Av. . .	15.04	16.26	13.99	14.90	23.05	42.67	35.46	29.62	42.85	23.49	25.68	27.26	21.54	20.59

Walter - Wallingford

— and Company —

PIG IRON
IRON ORE
ALLOYS
COKE

OFFICES

CINCINNATI, CHICAGO
PITTSBURGH

THE BESSEMER AVERAGE.

As compiled monthly by W. P. Snyder & Company from the actual sales of basic Bessemer pig iron by valley furnaces. Prices are f.o.b. valley furnaces.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. .	14.08	17.25	14.04	13.64	20.65	35.00	36.30	32.20	39.07	32.00	19.59	27.50	23.00	22.90
Feb. .	14.00	17.25	14.23	13.60	21.21	35.42	36.30	32.20	41.54	27.00	19.50	28.02	23.50	22.74
Mar. .	14.05	17.25	14.17	13.60	20.86	36.42	36.30	31.14	42.00	26.20	19.39	30.26	23.38	22.30
Apr. .	14.25	17.01	14.00	13.60	20.70	41.33	35.20	27.95	42.32	25.00	20.54	31.00	22.80	21.13
May .	14.23	16.78	14.00	13.66	20.83	45.99	35.20	27.95	42.60	24.25	24.40	30.10	22.13	19.81
June .	14.25	16.24	14.00	13.75	21.00	53.27	35.20	27.95	43.49	23.00	25.00	28.50	21.14	19.00
July .	14.25	15.41	14.00	13.99	21.00	56.50	35.20	27.95	45.81	20.88	25.00	26.70	20.14	19.00
Aug. .	14.53	15.66	14.00	15.06	21.00	53.22	35.20	27.95	47.39	20.00	28.67	26.50	20.00	19.00
Sept. .	15.06	15.75	14.00	15.91	21.93	45.45	35.20	27.95	48.50	20.00	33.50	26.50	20.00	19.28
Oct. .	17.00	15.70	13.94	16.00	23.66	36.30	35.20	27.95	47.25	20.00	33.50	25.20	20.00	19.74
Nov. .	17.17	15.13	13.64	16.62	29.12	36.30	35.20	30.20	39.30	20.00	31.75	23.03	20.32	20.88
Dec. .	17.30	14.84	13.75	19.02	34.21	36.30	35.20	35.43	35.00	20.00	28.10	22.78	21.89	21.00
Av. . .	15.09	16.19	13.98	14.87	22.93	42.63	35.48	29.74	42.86	23.19	25.75	27.17	21.52	20.57

Valley-Pittsburgh freight advanced from 90 cents to 95 cents on October 26, 1914, from Mahoning valley; November 16, 1914, from Shenango valley; June 1, 1918, 1.10; June 25, 1918, 1.40; August 26, 1920, 1.96; July 1, 1922, 1.76.



FERRO-SILICON

ALL GRADES

BESSEMER

FERRO-SILICON

AND

SILVERY IRON

MACHINE CAST PIGS

KEOKUK ELECTRO-METALS Co.

General Office and Furnaces:

KEOKUK, IOWA

BASIC PIG IRON, VALLEY.

Averaged from daily quotations, f.o.b. valley furnaces, ordinary deliveries.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. .	12.33	16.50	12.51	12.50	18.00	30.00	33.00	30.00	36.62	30.00	18.19	25.00	21.12	21.73
Feb. .	12.26	16.43	13.21	12.50	17.88	30.00	33.00	30.00	42.13	27.71	18.00	25.67	22.62	21.94
Mar. .	12.77	16.14	13.05	12.50	18.48	31.93	32.85	28.53	41.50	24.41	17.89	29.44	22.00	21.12
Apr. .	13.00	15.87	13.00	12.50	18.48	38.52	32.00	25.75	42.13	23.00	19.98	31.00	21.54	20.25
May .	13.00	15.25	13.00	12.50	18.21	41.46	32.00	25.75	43.12	22.15	24.62	29.33	20.73	19.25
June .	13.10	14.50	13.00	12.57	18.25	49.23	32.00	25.09	43.62	21.20	25.00	26.85	19.48	18.12
July .	13.42	14.40	13.00	12.87	18.00	53.52	32.00	25.75	45.42	19.52	24.32	25.12	19.00	18.00
Aug. .	13.84	14.09	13.00	13.98	18.00	51.70	32.00	25.75	46.96	18.22	26.17	25.00	19.00	18.00
Sept. .	14.32	14.00	13.00	14.80	18.27	43.80	32.20	25.75	48.50	19.00	30.08	24.92	19.00	18.24
Oct. .	16.02	13.97	12.88	15.00	20.17	33.00	33.00	25.75	44.00	19.24	30.23	24.00	19.00	18.57
Nov. .	16.28	13.28	12.50	15.88	24.80	33.00	33.00	27.83	37.62	19.00	28.28	21.20	18.85	19.82
Dec. .	16.50	12.83	12.50	17.73	29.84	33.00	33.00	33.88	33.00	19.00	24.96	20.96	20.40	20.00
Av. . .	13.90	14.77	12.89	13.78	19.87	39.10	32.50	27.49	42.05	21.87	23.98	25.71	20.23	19.59

COOPER, CLAYPOOL & CO.

Limited
PITTSBURGH

COAL

STEAM - LOW VOLATILE
GAS AND BY-PRODUCT

COKE

FURNACE, FOUNDRY, HEATING
AND CRUSHED

PIG IRON

BESSEMER BASIC
MALLEABLE

STEEL

BESSEMER AND OPEN-HEARTH
BILLETS
SLABS AND SHEET BARS

THE BASIC AVERAGE.

As compiled monthly by W. P. Snyder & Company from the actual sales of basic pig iron by valley furnaces. Prices are f.o.b. furnaces.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925
Jan. .	12.37	16.45	12.33	12.50	17.83	30.00	33.00	30.00	38.48	30.00	18.19	25.58	22.00	22.00
Feb. .	12.25	16.32	13.06	12.50	17.98	30.00	33.00	30.00	41.21	25.00	17.75	26.38	22.00	21.50
Mar. .	12.76	16.06	13.04	12.50	18.25	32.54	33.00	30.00	41.50	24.50	18.00	30.02	22.00	21.30
Apr. .	12.98	15.71	13.00	12.50	18.00	38.00	32.00	25.75	42.82	22.50	19.30	31.00	21.50	20.00
May .	13.00	14.90	13.00	12.65	18.16	41.89	32.00	25.75	43.48	21.88	24.91	28.06	20.32	18.50
June .	13.21	14.50	13.00	12.72	18.00	49.15	32.00	25.75	44.01	20.70	25.00	26.57	19.73	18.00
July .	13.48	14.23	13.00	12.96	18.00	52.85	32.00	25.75	46.02	18.80	24.56	24.75	19.00	18.00
Aug. .	14.00	14.05	13.00	14.36	18.00	49.42	32.00	25.75	48.37	18.33	25.41	25.00	19.00	18.00
Sept. .	15.13	14.14	13.00	15.00	18.63	41.34	32.00	25.75	48.50	19.25	32.93	24.50	19.00	18.27
Oct. .	16.18	13.71	12.85	15.01	20.31	33.00	33.00	25.75	42.42	19.00	30.00	23.25	18.50	18.61
Nov. .	16.19	13.01	12.48	15.52	27.23	33.00	33.00	30.16	37.24	19.00	27.60	20.81	19.68	19.82
Dec. .	16.45	12.52	12.50	17.49	30.00	33.00	33.00	34.82	33.00	18.69	24.57	20.86	20.28	20.00
Av. . .	14.00	14.63	12.85	13.81	20.03	38.68	32.50	27.94	42.25	21.47	24.02	25.56	20.25	19.50

Valley-Pittsburgh freight advanced from 90 cents to 95 cents on October 26, 1914, from Mahoning valley; November 16, 1914, from Shenango valley; June 1, 1918, 1.10; June 25, 1918, 1.40; August 26, 1920, 1.96; July 1, 1922, 1.76.

VALLEY FOUNDRY IRON.

Averaged from daily quotations, f.o.b. valley furnaces, ordinary deliveries.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. .	13.00	17.50	13.00	12.75	18.50	30.00	33.00	31.00	38.46	31.92	19.38	27.00	22.12	22.00
Feb. .	13.00	17.12	13.21	12.75	18.50	30.00	33.00	31.00	41.00	28.29	18.92	27.21	23.30	22.00
Mar. .	13.12	16.60	13.25	12.75	18.50	34.96	33.00	27.88	42.00	25.89	18.87	30.00	23.00	21.15
Apr. .	13.25	15.66	13.25	12.75	18.50	39.16	33.00	26.75	42.42	24.81	20.74	31.00	22.04	20.50
May .	13.25	14.73	13.17	12.75	18.44	42.65	33.00	26.75	43.96	23.60	24.00	30.69	21.15	19.40
June .	13.25	14.18	13.00	12.70	18.39	49.19	33.00	26.75	45.00	22.42	24.00	28.04	19.72	18.35
July .	13.39	13.88	13.00	12.72	18.25	53.00	33.00	26.75	45.15	20.40	24.20	25.70	19.00	18.50
Aug. .	13.89	13.94	13.00	13.71	18.27	53.00	33.00	26.75	47.85	19.59	29.04	25.00	19.23	18.50
Sept. .	14.49	14.00	13.00	14.50	18.58	47.68	33.20	26.75	50.00	20.86	35.02	24.96	19.92	18.74
Oct. .	16.09	13.83	12.89	14.58	20.56	33.00	34.00	26.90	46.62	21.00	31.63	23.76	19.50	19.07
Nov. .	16.84	13.57	12.75	15.82	25.60	33.00	34.00	30.76	40.72	20.78	28.78	21.84	19.44	20.32
Dec. .	17.60	13.38	12.75	17.98	29.84	33.00	34.00	35.46	35.77	20.00	25.92	21.96	21.10	20.50
Av. . .	14.26	14.87	13.02	13.81	20.16	39.89	33.27	28.63	43.25	23.30	25.04	26.43	20.79	19.92

BASIC PIG IRON, PHILADELPHIA.

Basic pig iron, delivered Philadelphia.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. .	14.25	18.00	14.25	13.50	19.24	30.00	33.75	33.90	39.54	31.54	20.25	27.90	22.93	23.85
Feb. .	14.25	17.75	14.00	13.50	19.50	30.45	33.75	33.90	40.50	29.28	19.84	28.25	22.55	23.81
Mar. .	14.35	17.50	14.10	13.50	19.60	33.93	33.60	31.36	42.00	26.54	19.84	29.17	21.18	23.50
Apr. .	14.75	17.00	14.25	13.40	20.50	39.40	32.75	29.65	43.00	25.47	20.75	30.50	21.50	22.56
May .	15.20	16.50	14.10	13.25	20.50	40.75	32.75	29.65	43.00	23.70	23.37	30.85	21.12	21.00
June .	15.25	16.50	14.00	13.42	19.90	46.50	32.78	25.50	43.40	23.54	25.00	28.20	21.00	21.50
July .	15.50	15.90	14.00	13.83	19.15	53.15	32.90	26.00	43.88	22.40	25.54	26.45	20.96	21.50
Aug. .	15.80	15.25	14.00	14.83	19.00	51.25	32.90	26.60	46.75	19.70	27.92	25.00	20.00	21.00
Sept. .	16.25	15.25	14.00	16.70	19.50	45.75	33.64	26.60	50.26	19.14	30.90	24.50	20.00	20.62
Oct. .	16.73	15.25	14.00	17.25	20.52	33.75	36.60	28.43	48.85	20.50	29.50	24.00	20.00	21.11
Nov. .	18.00	15.13	14.00	17.40	24.68	33.75	36.90	31.70	42.92	20.50	28.14	22.49	20.75	22.32
Dec. .	18.00	14.75	13.50	18.01	29.48	33.75	36.90	36.98	34.64	20.45	27.25	22.90	22.81	22.96
Av. .	15.69	16.23	14.02	14.88	20.96	39.37	34.10	30.02	43.26	23.56	24.85	26.68	21.23	22.14

ROBERT C. LEA & CO.

**21 SOUTH 12th STREET
PHILADELPHIA**

**Low Phosphorus,
Bessemer and Foundry
PIG IRON**

**Iron Ore,
Pyrites Cinder,
Limestone**

Phosphate Rock

Tar & Benzol Products

FOUNDRY PIG IRON, No. 2X, PHILADELPHIA.

Averaged from daily quotations, delivered.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. .	14.75	18.49	14.69	14.45	19.71	31.48	34.25	36.15	43.85	33.04	21.34	28.72	24.23	25.01
Feb. .	14.75	18.23	14.88	14.50	19.75	31.96	34.25	36.15	45.48	30.73	21.34	29.79	23.73	25.01
Mar. .	14.84	17.81	15.00	14.35	19.77	37.01	34.25	33.61	45.35	28.03	20.73	31.86	23.63	24.52
Apr. .	15.50	17.49	15.00	14.05	20.20	41.71	34.25	30.80	46.70	26.38	22.90	33.01	23.29	22.95
May .	15.16	16.77	14.91	14.25	20.25	43.67	34.25	30.80	47.01	24.96	25.51	32.64	22.73	21.60
June .	15.58	16.26	14.51	14.25	20.04	46.87	34.28	29.48	46.95	24.21	26.62	30.47	21.61	21.26
July .	15.61	15.66	14.40	14.28	19.75	52.75	34.40	28.71	47.20	23.00	28.00	27.80	21.26	21.26
Aug. .	15.84	15.56	14.28	14.91	19.58	52.75	34.40	29.15	50.60	20.42	31.69	25.50	21.43	21.48
Sept. .	16.35	15.97	14.68	15.91	19.50	48.71	35.29	30.51	52.51	20.84	34.76	26.03	21.76	21.88
Oct. .	17.39	15.94	14.29	16.25	20.58	34.14	38.85	31.93	52.17	21.40	32.69	24.33	21.76	22.51
Nov. .	18.19	15.61	14.24	16.95	25.00	34.25	39.15	35.43	46.80	21.93	30.78	22.55	22.59	23.60
Dec. .	18.29	14.98	14.25	18.81	30.27	34.25	39.15	40.31	36.29	21.88	28.53	24.24	24.31	24.22
Av. .	16.02	16.56	14.59	15.25	21.20	40.80	35.56	32.75	46.74	24.74	27.07	28.08	22.69	22.94

Waldo, Egbert & McClain

Incorporated

BUFFALO, N. Y.
Marine Trust Bldg.
Phone Seneca 7038

BOSTON, MASS.
111 Devonshire St.,
Phone Congress 1062

PROMPT SHIPMENTS

Pig Iron

Coke - Coal

Alloys

Steel

Fuel Oil

FOUNDRY PIG IRON, BUFFALO.

No. 2X foundry, f.o.b. Buffalo furnaces.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	13.62	17.25	12.51	13.00	18.00	35.00	33.50	32.25	42.17	31.25	19.50	27.19	22.35	23.42
Feb.	13.75	16.97	12.77	13.00	18.00	35.00	33.50	32.25	44.17	30.17	18.81	28.27	22.40	22.56
Mar.	13.75	16.54	13.13	12.49	18.52	35.56	33.50	30.78	44.25	29.01	18.31	29.15	21.58	22.21
Apr.	14.00	15.71	13.50	12.44	19.00	39.84	33.50	28.00	46.25	27.17	20.64	29.92	21.35	20.45
May	14.00	15.33	13.32	12.92	18.90	43.08	33.50	28.00	46.25	25.40	23.19	29.04	20.38	19.34
June	14.00	14.18	12.76	12.83	18.50	46.65	33.50	27.00	46.25	22.45	22.71	28.62	18.94	19.00
July	14.11	13.76	12.75	12.58	18.50	50.64	33.50	27.81	46.25	20.68	24.80	24.86	18.50	19.00
Aug.	14.50	13.95	12.93	13.58	18.50	50.00	33.50	28.35	48.79	19.48	30.17	24.50	18.88	18.75
Sept.	15.50	14.00	13.00	15.18	18.79	48.76	33.85	29.00	51.25	20.08	33.88	24.39	19.50	18.64
Oct.	16.64	14.00	12.46	15.50	20.23	33.39	35.25	30.06	49.52	20.50	31.35	22.62	19.50	19.44
Nov.	17.19	13.71	12.08	16.48	27.06	33.50	35.25	33.63	42.93	19.82	28.16	20.72	20.73	21.16
Dec.	17.61	13.07	12.88	17.77	33.56	33.50	35.25	39.19	34.71	19.38	25.94	21.68	22.65	21.54
Av.	14.89	14.87	12.84	13.98	20.63	40.41	33.97	30.53	45.23	23.78	24.79	25.91	20.56	20.46

Pickands, Brown & Co.

Chicago, Illinois

P I G I R O N

**FOUNDRY
BASIC**

**MALLEABLE
BESSEMER**

LOW PHOS

Chicago and Milwaukee

SOLVAY COKE

"The Fuel Without A Fault"

Furnace

Foundry

Domestic

FOUNDRY PIG IRON, CHICAGO.

No. 2 foundry, delivered Chicago; averaged from daily quotations.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. .	14.50	18.48	14.35	13.45	19.00	30.50	33.50	31.50	40.50	33.18	19.84	29.09	24.23	24.46
Feb. .	14.50	17.87	14.46	13.50	19.00	31.42	33.50	31.50	42.00	30.87	19.18	30.13	25.01	24.61
Mar. .	14.50	17.75	14.75	13.39	19.24	35.65	33.50	30.03	43.50	27.07	20.48	31.46	24.92	24.61
Apr. .	14.50	17.60	14.75	13.50	19.50	39.34	33.50	27.25	43.50	25.32	21.06	32.61	24.61	23.19
May .	14.96	16.67	14.68	13.50	19.50	43.15	33.50	27.25	43.50	23.70	23.05	32.61	23.49	21.93
June .	15.00	16.25	14.21	13.50	19.50	50.04	33.50	27.25	43.50	22.08	23.83	32.11	21.79	20.90
July .	15.10	15.38	14.38	13.50	19.50	55.50	33.50	27.25	44.58	19.98	24.73	28.71	19.74	21.11
Aug. .	15.78	15.44	14.44	13.88	19.17	55.50	33.50	27.25	46.54	19.64	28.17	27.65	20.80	21.11
Sept. .	16.58	15.50	13.85	14.30	18.75	51.10	33.70	27.25	46.70	22.18	32.53	27.36	21.11	21.47
Oct. .	17.50	15.50	13.48	15.08	19.79	33.50	34.50	27.63	46.01	22.35	32.15	25.76	21.11	22.17
Nov. .	17.78	15.43	13.10	17.50	25.70	33.50	34.50	31.05	41.42	21.70	30.65	23.59	21.40	23.29
Dec. .	18.50	14.83	13.40	18.48	29.34	33.50	34.50	37.27	37.24	20.53	28.09	23.61	22.78	23.61
Av. .	15.77	16.39	14.15	14.46	20.67	41.06	33.77	29.37	43.25	24.05	25.31	28.72	22.58	22.71

Note.—Estimated switching charge, included above, 50c to August 26, 1920, then 70c; July 1, 1922, 61c.

FOUNDRY PIG IRON, CLEVELAND.

No. 2 foundry, delivered Cleveland, averaged from daily quotations.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. .	13.25	17.75	13.30	13.25	18.80	30.95	33.30	31.40	39.55	33.24	19.92	27.83	22.73	23.00
Feb. .	13.25	17.44	13.56	13.25	18.80	31.78	33.30	31.40	41.15	30.15	19.56	28.42	24.50	23.00
Mar. .	13.25	16.75	13.75	13.25	18.86	36.21	33.30	30.28	42.96	27.70	19.56	31.31	24.50	22.87
Apr. .	13.25	15.41	14.21	13.25	19.00	39.30	33.30	27.34	43.40	26.77	20.76	32.50	23.85	22.76
May .	13.25	15.56	14.25	13.25	19.08	41.49	33.30	27.15	43.40	25.56	24.56	32.13	22.98	21.09
June .	13.45	14.95	14.25	13.25	19.30	48.99	33.32	27.15	44.40	24.17	24.56	29.85	21.52	20.07
July .	13.75	14.68	13.81	13.20	18.80	54.30	33.40	27.15	44.94	21.66	24.56	27.32	20.50	20.00
Aug. .	13.94	14.50	13.75	14.08	18.57	54.30	33.40	27.15	47.30	20.56	29.16	26.77	20.50	20.00
Sept. .	15.15	14.55	13.75	15.04	18.67	50.10	33.60	27.15	50.56	20.56	35.50	26.70	20.50	20.22
Oct. .	16.53	14.73	13.73	15.25	19.87	33.30	34.40	27.53	47.47	20.56	34.27	25.31	20.50	20.54
Nov. .	17.35	14.35	13.50	16.47	24.58	33.30	31.40	30.95	42.80	20.56	31.34	23.60	20.58	21.81
Dec. .	17.75	13.76	13.30	18.13	30.48	33.30	34.40	35.02	36.02	20.56	27.38	22.51	22.23	22.26

Av. . . 14.51 15.37 13.76 14.31 20.40 40.61 33.62 29.14 43.66 24.34 25.93 27.85 22.07 21.47

Note.—Switching charge included above, 25c at first; November 4, 1915, 30c; June 25, 1919, 40c; August 23, 1920, 56c; July 1, 1922, 50c.

FOUNDRY PIG IRON, BIRMINGHAM.

Averaged from daily quotations, f.o.b. Birmingham furnaces.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	9.87	13.72	10.63	9.50	14.92	24.27	33.00	31.00	37.77	31.14	15.96	23.23	21.27	20.00
Feb.	10.00	13.46	10.52	9.50	14.64	24.13	33.00	31.00	40.00	27.50	15.33	24.29	22.52	20.00
Mar.	10.11	13.04	10.75	9.42	15.00	29.67	33.00	28.44	40.00	25.52	15.31	26.33	22.50	20.25
Apr.	10.54	12.60	10.52	9.25	15.00	33.80	33.00	26.75	40.00	23.77	15.74	27.00	22.35	19.89
May	10.90	11.74	10.50	9.47	15.00	36.62	3.00	25.28	42.00	21.80	17.63	27.00	21.46	19.88
June	11.06	10.89	10.29	9.50	14.63	40.92	33.00	24.14	42.00	20.48	18.44	25.63	19.88	18.38
July	11.65	10.50	10.06	9.61	14.00	45.36	33.00	26.01	42.00	20.18	18.56	25.00	17.75	17.33
Aug.	12.00	10.85	10.00	10.77	14.00	45.00	33.00	27.18	42.00	18.70	20.37	23.37	17.50	18.06
Sept.	12.65	11.20	10.00	11.22	14.38	42.60	3.20	27.50	42.00	19.06	25.40	22.81	17.50	18.58
Oct.	13.68	11.48	10.00	11.71	15.35	33.00	34.00	27.78	42.00	19.00	27.04	20.11	17.50	19.41
Nov.	14.00	10.80	10.00	13.14	19.72	33.00	34.00	30.21	39.02	18.56	24.12	19.04	17.81	21.00
Dec.	14.00	10.50	9.67	14.00	23.38	33.00	33.16	34.81	36.42	17.31	22.70	20.36	19.71	22.00

Av. 11.71 11.73 10.25 10.59 15.84 35.11 33.20 28.34 40.43 21.92 19.72 23.68 19.81 19.57

Freight to Cincinnati, 3.25 to Oct. 1, 1914, then 2.90; June 25, 1918, 3.60; Aug. 26, 1920, 4.50; July 1, 1922, 4.05; Dec. 3, 1925, 3.69.



Park & Williams, Inc.
PHILADELPHIA

"SWEDE"
PIG IRON
SWEDISH
IRON ORE

Steel - Alloys
Coke - Coal

Agents for

Alan Wood Iron and Steel Co., Philadelphia, Pa.
Trafikaktiebolaget Grangesberg-Oxelösund
Stockholm

PIG IRON AT PHILADELPHIA.

Charcoal iron; to 1827, best pig iron, to 1833, average of grades; to 1840, gray iron; to 1849, No. 1 foundry:

1799 .. 36.25	1816 .. 50.25	1833 .. 38.25
1800 .. 35.75	1817 .. 47.00	1834 .. 30.25
1801 .. 32.75	1818 .. 42.25	1835 .. 30.25
1802 .. 30.75	1819 .. 36.50	1836 .. 41.50
1803 .. 29.25	1820 .. 35.00	1837 .. 41.25
1804 .. 29.75	1821 .. 35.00	1838 .. 32.25
1805 .. 30.75	1822 .. 35.00	1839 .. 30.00
1806 .. 35.75	1823 .. 35.25	1840 .. 32.75
1807 .. 38.75	1824 .. 40.00	1841 .. 28.50
1808 .. 40.00	1825 .. 46.75	1842 .. 28.00
1809 .. 40.00	1826 .. 46.50	1843 .. 26.75
1810 .. 38.00	1827 .. 39.25	1844 .. 28.25
1811 .. 44.00	1828 .. 35.00	1845 .. 32.25
1812 .. 47.50	1829 .. 35.00	1846 .. 31.25
1813 .. 47.25	1830 .. 35.00	1847 .. 31.50
1814 .. 46.00	1831 .. 35.00	1848 .. 28.50
1815 .. 53.75	1832 .. 35.00	1849 .. 24.50

No. 1 anthracite foundry iron:

1845 .. 29.25	1862 .. 23.87	1879 .. 21.50
1846 .. 27.87	1863 .. 35.25	1880 .. 28.50
1847 .. 30.25	1864 .. 59.25	1881 .. 25.12
1848 .. 26.50	1865 .. 46.12	1882 .. 25.75
1849 .. 22.75	1866 .. 46.87	1883 .. 22.37
1850 .. 20.87	1867 .. 44.12	1884 .. 19.87
1851 .. 21.37	1868 .. 39.25	1885 .. 18.00
1852 .. 22.62	1869 .. 40.62	1886 .. 18.71
1853 .. 36.12	1870 .. 33.25	1887 .. 20.92
1854 .. 36.87	1871 .. 35.12	1888 .. 18.88
1855 .. 27.75	1872 .. 48.87	1889 .. 17.75
1856 .. 27.12	1873 .. 42.75	1890 .. 18.40
1857 .. 26.37	1874 .. 30.25	1891 .. 17.52
1858 .. 22.25	1875 .. 25.50	1892 .. 15.75
1859 .. 23.37	1876 .. 22.25	1893 .. 14.52
1860 .. 22.75	1877 .. 18.87	1894 .. 12.66
1861 .. 20.25	1878 .. 17.62	1895 .. 13.10

PIG IRON - COKE FERRO-MANGANESE

FERRO SILICON
FERRO PHOSPHORUS
SPIEGELEISEN
FLUOR SPAR
ORES

Molding Sand—Smithing Coal
Aluminum

ROGERS BROWN & CROCKER BROS., INC.

Main Office, 21 East 40th St.
New York

Cincinnati
Buffalo

Philadelphia
Boston

Pittsburgh
Cleveland

Chicago
St. Louis

PIG IRON.

Annual averages of quotations, delivered.

	No. 1 Fdy. Phila.	Bess. Pitts.	So. Fdy. Cin'tl.	Fdy. Chi'go.	L.S. Chl. Chi'go.
1891 .	17.52	15.87	13.75	14.95	.....
1892 .	15.75	14.28	12.65	13.88	.....
1893 .	14.52	12.68	11.35	12.80	16.12
1894 .	12.66	11.06	9.40	10.56	14.75
1895 .	13.10	12.73	11.25	11.80	13.75
1896 .	12.95	12.00	10.29	11.65	13.62
1897 .	12.10	9.98	9.33	10.68	13.00
1898 .	11.66	10.31	9.46	10.97	11.60
1899 .	19.36	18.89	16.58	17.65	19.80
1900 .	19.98	18.84	17.04	19.12	22.00
1901 .	15.87	15.73	13.61	15.03	17.50
1902 .	22.19	20.07	20.00	20.52	23.50
1903 .	19.92	18.64	17.08	18.90	22.13
1904 .	15.57	13.66	12.73	14.02	15.50
1905 .	17.88	16.33	15.57	17.30	18.00
1906 .	20.98	19.33	18.37	20.08	20.72
1907 .	23.89	22.64	23.10	24.15	26.56
1908 .	*17.33	17.03	15.83	17.25	20.25
1909 .	*17.30	17.46	16.06	17.48	19.50
1910 .	*16.87	17.16	14.85	17.10	18.69
1911 .	*15.20	15.74	13.62	15.19	17.00
1912 .	*15.98	15.04	14.96	15.77	16.75
1913 .	*16.56	17.16	14.98	16.39	16.55
1914 .	*14.59	14.90	13.41	14.15	15.61
1915 .	*15.25	15.85	13.49	14.46	16.13
1916 .	*21.20	24.00	18.74	20.67	21.00
1917 .	*40.80	43.61	38.01	41.06	44.25
1918 .	*35.56	36.65	36.46	33.77	37.85
1919 .	*32.75	31.02	31.94	29.37	35.25
1920 .	*46.74	44.44	44.34	43.25	55.75
1921 .	*24.74	25.45	26.42	24.05	35.87
1922 .	*27.07	27.55	23.99	25.31	31.40
1923 .	*28.08	29.02	27.73	28.72	33.05
1924 .	*22.69	23.30	23.86	22.58	29.00
1925 .	*22.94	22.35	22.86	22.71	29.04

* No. 2X.

STEEL BILLETS.

Bessemer steel billets per gross ton, Pittsburgh, quarterly and annual averages.

Quarters.	1st.	2nd.	3rd.	4th.	Year.
1890	34.06	28.44	30.27	27.31	30.02
1891	25.95	25.37	25.27	24.42	25.25
1892	24.12	22.73	23.65	23.62	23.53
1893	21.93	21.94	20.27	17.37	20.38
1894	15.81	17.27	17.45	15.56	16.52
1895	14.90	16.79	22.17	19.33	18.30
1896	17.09	19.38	19.12	19.08	18.67
1897	15.37	14.16	14.53	15.64	14.93
1898	15.08	14.85	15.45	15.47	15.21
1899	19.64	27.37	35.63	36.33	29.75
1900	34.12	29.38	18.71	18.40	25.15
1901	20.98	24.13	24.36	27.07	24.13
1902	29.37	32.02	30.77	29.11	30.32
1903	30.03	29.83	27.20	24.67	27.93
1904	23.00	23.00	22.00	20.32	22.08
1905	23.41	23.17	23.67	25.87	24.03
1906	26.48	26.68	27.68	28.79	27.41
1907	29.30	30.01	29.54	28.07	29.23
1908	28.00	27.31	25.00	25.00	26.33
1909	24.33	23.00	24.22	26.78	24.58
1910	27.00	25.87	24.62	23.30	25.20
1911	23.00	22.31	20.87	19.42	21.40
1912	19.67	20.83	22.47	26.50	22.37
1913	28.80	27.00	25.58	21.00	25.60
1914	20.67	20.08	20.14	19.42	20.08
1915	19.27	19.67	23.47	27.64	22.51
1916	35.83	43.33	45.17	52.57	44.23
1917	65.50	86.00	83.00	50.08	71.15
1918	47.50	47.50	47.50	46.70	47.30
1919	42.92	38.50	38.50	42.17	40.52
1920	52.83	65.00	61.67	51.67	57.79
1921	42.00	36.33	30.75	29.33	34.60
1922	28.50	33.00	37.00	37.92	34.10
1923	40.30	44.93	42.50	42.50	42.56
1924	40.00	39.00	37.58	35.83	38.10
1925	37.33	35.00	33.50	34.00	34.96

BESSEMER STEEL BILLETS.

Averaged from daily quotations, Pittsburgh.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.*	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	19.75	28.40	20.00	19.25	32.50	63.50	47.50	43.50	48.00	45.00	29.00	37.50	40.00	37.50
Feb.	19.50	29.00	21.00	19.25	34.00	65.00	47.50	43.50	48.00	42.00	28.50	39.40	40.00	37.50
Mar.	19.75	29.00	21.00	19.30	41.00	68.00	47.50	41.77	62.50	39.00	28.00	44.00	40.00	37.00
Apr.	20.25	27.50	20.75	19.50	45.00	75.00	47.50	38.50	65.00	37.00	30.00	46.30	40.00	35.50
May	21.00	27.00	20.00	19.50	43.00	88.00	47.50	38.50	65.00	37.00	34.00	45.00	39.00	35.25
June	21.25	26.50	19.50	20.00	42.00	95.00	47.50	38.50	65.00	35.00	35.00	43.50	38.00	34.25
July	21.50	26.50	19.50	21.40	42.50	95.00	47.50	38.50	62.50	32.00	35.00	42.50	38.00	33.50
Aug.	22.15	25.75	20.17	23.50	46.00	84.00	47.50	38.50	62.50	30.25	37.00	42.50	37.75	33.50
Sept.	23.75	24.50	20.75	25.50	47.00	70.00	47.50	38.50	60.00	30.00	39.00	42.50	37.00	33.50
Oct.	25.75	22.50	20.00	26.00	48.00	55.25	47.50	38.50	57.00	30.00	39.50	41.50	36.00	33.00
Nov.	26.75	20.50	19.25	26.20	52.75	47.50	47.50*	41.00	53.00	29.00	37.75	41.00	35.50	34.00
Dec.	27.00	20.00	19.00	30.73	56.96	47.50	45.10*	47.00	45.00	29.00	36.50	40.00	36.00	35.00
Av.	22.37	25.60	20.08	22.51	44.23	71.15	47.30	40.52	57.79	34.60	34.10	42.14	38.10	34.96

* Independents' market; Steel Corporation price remained 38.50 until about Sept. 1, 1920, when it became 43.50.

Ten-year pre-war average, 1904-1913, 24.83.



"A. W."



QUALITY PRODUCTS

"SWEDE" PIG IRON

Basic Foundry

SHEARED STEEL PLATES

Tank Ship Boiler

BASIC OPEN HEARTH

Steel Blooms, Slabs and Billets

**BLUE ANNEALED
STEEL SHEETS**

ROLLED STEEL FLOOR PLATES

Diamond Pattern

Ribbed Pattern

TRAFFIC TREADS

ALAN WOOD IRON AND STEEL CO.

WIDENER BUILDING PHILADELPHIA, PA.

**NEW YORK
BOSTON
DALLAS**

**SAN FRANCISCO
LOS ANGELES
SEATTLE**

OPEN-HEARTH BILLETS, PITTSBURGH.

Averaged from daily quotations, Pittsburgh.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	*1920.	1921.	1922.	1923.	1924.	1925.
Jan.	19.75	28.50	20.00	19.00	35.50	63.50	47.50	43.50	48.00	45.00	29.00	37.50	40.00	37.50
Feb.	19.50	29.00	21.00	19.25	37.00	65.00	47.50	43.50	48.00	42.00	28.50	39.40	40.00	37.50
Mar.	19.40	29.00	21.00	19.30	41.50	68.00	47.50	41.77	62.50	39.00	28.00	44.00	40.00	37.00
Apr.	20.25	27.50	20.75	19.50	45.00	75.00	47.50	38.50	65.00	37.00	30.00	46.30	40.00	35.00
May	21.00	27.00	20.00	19.50	43.00	88.00	47.50	38.50	65.00	37.00	34.00	45.00	39.00	35.25
June	21.25	26.50	19.50	20.25	42.50	95.00	47.50	38.50	65.00	35.00	35.00	43.50	38.00	34.25
July	21.75	26.50	19.50	22.40	44.50	95.00	47.50	38.50	62.50	32.00	35.00	42.50	38.00	33.50
Aug.	22.75	25.75	20.17	24.50	46.50	84.00	47.50	38.50	62.50	30.25	37.00	42.50	37.75	33.50
Sept.	24.75	24.00	20.75	26.75	47.00	70.00	47.50	38.50	60.00	30.00	39.00	42.50	37.00	33.50
Oct.	26.75	22.50	20.00	27.00	48.00	55.25	47.50	38.50	57.00	30.00	39.50	42.50	36.00	33.00
Nov.	27.75	20.50	19.25	27.20	52.75	47.50	47.50	*41.00	53.00	29.00	37.75	42.50	35.50	34.00
Dec.	28.00	20.00	19.00	33.00	57.00	47.50	45.10	*47.00	45.00	29.00	36.50	42.50	36.00	35.00
Av.	22.74	25.56	20.08	23.14	45.02	71.15	47.30	40.52	57.79	34.60	34.10	42.56	38.10	34.96

* Independents' market; Steel Corporation price remained 38.50 until about Sept. 1, 1920, when it became 43.50.



BLAST FURNACE PRODUCTS

Pig Iron, Ferro-Manganese and Spiegeleisen

OPEN-HEARTH and BESSEMER PRODUCTS

Ingots, Billets, Blooms, Slabs, Sheet Bars

STRUCTURAL MILL PRODUCTS

Beams, H-Beams, Channels, Angles, Tees,
Zees, Ship and Car Building Sections
Bulb Angles

BAR MILL PRODUCTS

Beams, Channels, U-Bars, Angles, Tees, Zees,
Merchant Bars, Squares, Rounds, Hexagons,
Welding and Threading Steel, Spring Steel,
Flat Steel, Square, Band and Round Edge
Tire Steel, Hoop and Band Steel, Cotton Ties,
Concrete Reinforcement Bars
Agricultural, Automobile and Window Sections,
Miscellaneous Bar Sections

ALLOY STEEL FOR VARIOUS PURPOSES

PLATE MILL PRODUCTS

Sheared Plate and Universal Mill Plates
Checkered Floor Plates Skelp

RAIL MILL PRODUCTS

Standard and Light Rails Splice Bars
Steel Cross Ties and Track Accessories

FORGED AND WROUGHT PRODUCTS

Wheels and Axles; Steam, Electric and
Industrial Service

FABRICATED PRODUCTS

Steel Mine Timbers Steel Sheet Piling

COKE BY-PRODUCTS

BLAST FURNACE SLAG

Carnegie Steel Company

GENERAL OFFICES: CARNEGIE BUILDING
434 FIFTH AVENUE, PITTSBURGH, PA.

SHEET BARS.

Open-hearth, averaged from daily quotations, Pittsburgh.

	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	*29.25	†20.25	†19.50	*35.50	63.50	51.00	47.00	50.00	47.00	29.00	37.50	42.50	*39.50
Feb.	30.00	22.00	19.75	*37.00	65.00	51.00	47.00	58.00	42.00	29.00	39.40	42.50	39.00
Mar.	30.00	22.00	19.80	*41.50	68.00	51.00	45.27	70.00	39.00	29.00	44.00	42.50	38.00
Apr.	28.25	21.75	20.00	45.00	75.00	51.00	42.00	75.00	38.50	31.75	45.60	41.50	37.00
May	27.50	21.00	20.00	43.00	94.00	51.00	42.00	75.00	39.00	35.00	45.00	40.00	36.00
June	27.00	20.35	*20.75	*42.50	105.00	51.00	42.00	72.50	36.00	35.00	43.50	40.00	35.00
July	27.50	20.00	*22.80	*44.50	105.00	51.00	42.00	70.00	33.00	35.00	42.50	39.00	35.00
Aug.	26.25	21.08	*24.65	*46.50	94.00	51.00	42.00	70.00	30.50	37.00	42.50	37.00	35.00
Sept.	25.00	21.75	*26.75	45.00	80.00	51.00	42.00	66.00	30.00	40.00	42.50	37.50	35.00
Oct.	23.00	20.70	*27.00	48.00	59.00	51.00	42.00	65.00	30.00	39.50	42.50	37.25	33.50
Nov.	21.50	19.75	*27.50	54.00	51.00	51.00	†43.00	59.00	30.00	37.75	42.50	37.00	34.50
Dec.	21.00	19.50	*33.00	58.75	51.00	48.60	†49.00	47.00	29.00	36.50	42.50	37.35	36.00

Av. *26.35 †20.84 *23.46 *45.10 75.87 50.80 43.77 65.21 35.33 34.54 42.50 39.58 36.13

* Bessemer lower. † Bessemer higher.

† Independents' market; Steel Corporation price remained 42.00 until about September 1, 1920, when it became 47.00.

PAGE

Quality *plus* Service

Page Quality and Service are causing many lines of industry to specify the following Page products as standard:

fence

Protection for Industry. Woven and heavily galvanized. Right of Way and Farm — Chain Link, Panel Partitions, Gates, etc.

welding wire

High and Low Carbon — Gas and Electric

wire

Plain and Galvanized — Spring, Rope, Telephone, Telegraph, Strand, Bond.

rods

Ingot Iron and Special Analysis Steels.

PAGE STEEL & WIRE
COMPANY

Bridgeport, Connecticut

District Sales Offices:

Chicago

New York

Pittsburgh

San Francisco



RODS.

Bessemer steel rods Pittsburgh, per gross ton, averaged from daily quotations.

Annual Averages.

1887	44.25	1904	28.75
1888	41.50	1905	32.00
1889	32.00	1906	34.50
1890	42.00	1907	36.50
1891	34.50	1908	34.00
1892	32.00	1909	31.45
1893	28.25	1910	30.25
1894	23.13	1911	27.35
1895	24.75	1912	26.15
1896	24.25	1913	28.39
1897	21.00	1914	25.50
1898	21.50	1915	28.28
1899	32.50	1916	57.58
1900	29.75	1917	80.23
1901	32.50	1918	57.00
1902	36.00	1919	53.11
1903	34.50	1920*	70.00

Monthly Averages.

	*1920.	1921.	1922.	1923.	1924.	1925.
Jan.	63.00	57.00	37.00	48.50	51.00	48.00
Feb.	68.00	57.00	36.00	50.00	51.00	48.00
Mar.	70.00	47.00	36.00	50.00	51.00	48.00
Apr.	72.50	47.50	38.00	50.00	51.00	47.00
May	75.00	48.00	38.00	50.00	49.00	46.00
June	75.00	48.00	38.00	51.00	48.00	45.50
July	75.00	43.00	40.00	51.00	48.00	45.00
Aug.	75.00	42.00	43.00	51.00	46.60	45.00
Sept.	72.50	40.50	45.00	51.00	46.00	45.00
Oct.	70.00	40.00	45.00	51.00	45.50	45.00
Nov.	67.00	40.00	45.00	51.00	45.60	45.00
Dec.	57.00	38.00	45.00	51.00	48.00	45.00
Av.	70.00	45.67	40.50	50.46	48.39	46.04

Ten-year average, 1904-1913 .. 30.93

* Independent market; Steel Corporation price 52.00 until about August 15; 57.00 thereafter.

REPUBLIC



SHEETS—One pass cold rolled and annealed, single pickled, blue annealed, flat galvanized and formed roofing products

OPEN HEARTH and BESSEMER—Billets, blooms, slabs, sheet and tin bars.

PLATES—Open Hearth Sheared Plates

WROUGHT PIPE—Standard black and galvanized, line and drive pipe, tubing, casing, rotary drill pipe.

BARS—Open Hearth and Bessemer steel bars, angles, channels, etc., special sections and old rail steel bars.

PIG IRON—Northern Basic and Standard Bessemer, Southern "Pioneer" Foundry.

SPECIALTIES—Bolts, nuts and washers, turn-buckles, tie rods, crossarm braces, small R. R. and boat spikes.

Republic Iron & Steel Co.

General Offices:

Republic Building, Youngstown, Ohio

Sales Offices:

Birmingham, Cincinnati, Cleveland,

Chicago, New York, Buffalo, Boston,

St. Louis, Dallas, Philadelphia,

Detroit, Pittsburgh, San Francisco,

Denver

STEEL BARS.

(Base price, Pittsburgh.)

Annual Averages.

1896	.....	1.13	1901	.....	1.44
1897	.....	.97	1902*	.....	1.58
1898	.....	.95	1903	.....	1.56
1899	.....	1.95	1904	.....	1.33
1900	.....	1.61	1905	.....	1.48

Quarterly Averages.

	1st.	2nd.	3rd.	4th.	Year.
1906		1.50	1.50	1.55	1.51
1907		1.60	1.60	1.60	1.60
1908		1.60	1.53	1.40	1.48
1909		1.31	1.17	1.32	1.31
1910		1.46	1.44	1.42	1.43
1911		1.40	1.34	1.21	1.11
1912		1.12	1.19	1.29	1.40*
1913		1.40	1.40	1.40	1.30
1914		1.21	1.14	1.16	1.10
1915		1.12	1.20	1.31	1.60
1916		2.10	2.50	2.55	2.77
1917		3.09	3.68	4.29	2.90
1918		2.90	2.90	2.90	2.86

Monthly Averages.

	1919.	†1920.	1921.	1922.	1923.	1924.	1925.
Jan.	2.70	2.65	2.35	1.50	2.00	2.40	2.10
Feb.	2.70	2.98	2.13	1.46	2.16	2.40	2.18
Mar.	2.58	3.33	2.00	1.40	2.25	2.40	2.10
Apr.	2.35	3.33	2.06	1.50	2.36	2.32	2.07
May	2.35	3.10	2.10	1.55	2.40	2.20	2.00
June	2.35	3.02	2.08	1.60	2.40	2.19	2.00
July	2.35	3.02	1.88	1.62	2.40	2.15	2.00
Aug.	2.35	3.12	1.75	1.80	2.40	2.15	2.00
Sept.	2.35	3.11	1.67	*1.92	2.40	2.09	2.00
Oct.	2.35	3.00	1.60	*2.00	2.40	2.02	2.00
Nov.*	2.35	2.90	1.56	2.00	2.40	2.02	2.00
Dec.*	2.35	2.35	1.53	2.00	2.40	2.10	2.00
Av.	2.43	2.99	1.89	1.70	2.33	2.20	2.04

* Premiums for prompt delivery.

† Independent market; Steel Corporation price remained 2.35.

Ten-year average, 1904-1913... 1.403

Worth Steel Company

Claymont, Delaware

Manufacturers of

SHEARED STEEL PLATES

Up to 152 inches Wide

Flanged and Dished Heads

Regular and Irregular
Sectional Flange Work

STEEL PLATES.

Tank quality, Pittsburgh.

Annual Averages.

1892....	1.83	1896....	1.24	1900....	1.55
1893....	1.56	1897....	1.05	1901....	1.55
1894....	1.20	1898....	1.08	1902*....	1.60
1895....	1.42	1899....	2.20	1903....	1.60

Quarterly Averages.

	1st.	2nd.	3rd.	4th.	Year.
1904	1.60	1.60	1.55	1.42	1.54
1905	1.55	1.60	1.60	1.60	1.59
1906	1.60	1.60	1.60	1.64	1.61
1907	1.70	1.70	1.70	1.70	1.70
1908	1.70	1.67	1.60	1.60	1.64
1909	1.47	1.26	1.39	1.53	1.41
1910	1.55	1.49	1.39	1.38	1.45
1911	1.40	1.38	1.31	1.14	1.31
1912	1.12	1.24	1.36	1.49	1.30
1913	1.47	1.45	1.43	1.28	1.41
1914	1.20	1.13	1.16	1.09	1.14
1915	1.12	1.17	1.27	1.60	1.29
1916	2.20	2.83	2.95	3.31	2.82
1917	3.90	5.37	8.34	3.25	5.21
1918	3.25	3.25	3.25	3.20	3.24

Monthly Averages.

	1919.	†1920.	1921.	1922.	1923.	1924.	1925.
Jan.	3.00	3.00	2.65	1.50	2.04	2.50	2.00
Feb.	3.00	3.37	2.35	1.46	2.18	2.50	2.18
Mar.	2.88	3.50	2.10	1.39	2.29	2.47	2.03
Apr.	2.65	3.50	2.16	1.49	2.46	2.32	2.00
May	2.65	3.42	2.20	1.52	2.50	2.20	2.00
June	2.65	3.33	2.06	1.60	2.50	2.18	1.90
July	2.65	3.29	1.93	1.62	2.50	2.14	1.88
Aug.	2.65	3.25	1.84	1.82	2.50	1.96	1.83
Sept.	2.50	3.25	1.67	*2.00	2.50	1.90	1.80
Oct.	2.56	3.00	1.59	*2.08	2.50	1.84	1.80
Nov.	2.65	2.83	1.51	2.00	2.50	1.83	1.86
Dec.	2.65	2.65	1.50	2.00	2.50	1.91	1.90

Av. 2.71 3.20 1.96 1.71 2.41 2.15 1.93

* Premiums for prompt shipment.

† Independent market; Steel Corporation price remained 2.65.

Ten-year average, 1904-1913 1.496

AMERICAN BRIDGE COMPANY

EMPIRE BUILDING, 71 BROADWAY, N. Y.

*Steel Structures of all classes
particularly*

BRIDGES & BUILDINGS

Viaducts Crane Runways Forgings
Turntables Barges Car Floats
Transmission Towers
Heroult Electric Furnaces
Oil Storage Tanks

Offices in Principal Cities:

Pacific Coast Representative:

U. S. Steel Products Co.,
Pacific Coast Dept.
SAN FRANCISCO, CAL.

Foreign Representative:

U. S. Steel Products Co.,
30 Church Street,
NEW YORK, U. S. A.

LONDON, (E. C.) ENGLAND
36-38 New Broad Street.

STRUCTURAL SHAPES.

Beams and channels, 3-inch to 15-inch, Pittsburgh; averaged from daily quotations.

Annual Averages

1894 ... 1.23	1898 ... 1.17	1902 ... 1.60
1895 ... 1.40	1899 ... 1.83	1903 ... 1.60
1896 ... 1.49	1900 ... 1.91	1904 ... 1.54
1897 ... 1.24	1901 ... 1.58	1905 ... 1.62

Quarterly Averages.

	1st.	2nd.	3rd.	4th.	Year.
1906 ...	1.70	1.70	1.70	1.70	1.70
1907 ...	1.70	1.70	1.70	1.70	1.70
1908 ...	1.70	1.68	1.60	1.60	1.64
1909 ...	1.43	1.25	1.40	1.53	1.40
1910 ...	1.55	1.49	1.41	1.40	1.46
1911 ...	1.40	1.38	1.34	1.17	1.32
1912 ...	1.13	1.24	1.36	1.49	1.30
1913 ...	1.47	1.45	1.43	1.32	1.42
1914 ...	1.22	1.15	1.17	1.11	1.16
1915 ...	1.12	1.20	1.29	1.61	1.30
1916 ...	2.10	2.50	2.55	2.84	2.50
1917 ...	3.29	3.98	4.35	3.00	3.65
1918 ...	3.00	3.00	3.00	2.96	2.99

	1919.	*1920.	1921.	1922.	1923.	1924.	1925.
Jan.	2.80	2.55	2.45	1.50	2.04	2.50	2.10
Feb.	2.80	2.82	2.30	1.46	2.16	2.50	2.18
Mar.	2.68	3.32	2.10	1.40	2.29	2.50	2.10
Apr.	2.45	3.32	2.16	1.50	2.46	2.32	2.07
May	2.45	3.17	2.20	1.52	2.50	2.20	2.00
June	2.45	3.08	2.15	1.60	2.50	2.19	2.00
July	2.45	3.00	1.96	1.62	2.50	2.15	1.96
Aug.	2.45	3.10	1.84	1.82	2.50	2.07	1.90
Sept.	2.45	3.10	1.68	2.00	2.50	2.00	1.90
Oct.	2.45	3.03	1.60	2.00	2.50	1.94	1.90
Nov.	2.45	2.90	1.60	2.00	2.50	1.95	1.90
Dec.	2.45	2.45	1.57	2.00	2.50	2.10	1.90

Av. 2.53 2.99 1.97 1.70 2.41 2.20 1.99

* Independent market; Steel Corporation price remained 2.45.

Ten-year average, 1904-1913 .. 1.510

SHARON STEEL HOOP CO.

GENERAL OFFICE - SHARON, PA.

WORKS

SHARON,
YOUNGSTOWN,
LOWELLVILLE,

PA.
OHIO
OHIO

MANUFACTURERS OF

Open Hearth HOOP, BAND & STRIP STEEL

Any Specification

ALL WIDTHS from 3-8 to 15 Inches

ALL GAUGES

ANY LENGTH

OPEN HEARTH STEEL SHEETS

BLACK and BLUE ANNEALED SPECIALS

OPEN HEARTH BILLETS SHEET BARS

Branch Offices:

342 Madison Avenue
1932 McCormick Bldg.,
1106 Union Trust Bldg.,
807 Monadnock Bldg.,
Packard Bldg.,
Planters Bldg.,
207 N. Peters St.,
Gen. Motors Bldg.,
Union Trust Bldg.,

New York, N. Y.
Chicago, Ill.
Cincinnati, O.
San Francisco, Cal.
Philadelphia, Pa.
St. Louis, Mo.
New Orleans, La.
Detroit, Mich.
Cleveland, O.

HUGH RUSSEL & SONS, LTD.

Excelsior Life Bldg.,
Royal Ins. Bldg.,

Toronto, Ont.
Montreal, Que.

HOOPS, BANDS AND COTTON TIES.

Hoops, averaged from daily quotations.

	1919.	*1920.	1921.	1922.	1923.	1924.	1925.
Jan.	3.30	3.30	3.05	1.90	2.75	3.00	2.50
Feb.	3.30	3.60	2.91	1.85	2.84	3.00	2.50
Mar.	3.21	4.00	2.82	1.83	3.07	2.95	2.40
Apr.	3.05	4.75	2.71	1.90	3.26	2.88	2.40
May	3.05	5.00	2.75	2.05	3.30	2.75	2.40
June	3.05	5.40	2.59	2.32	3.30	2.75	2.40
July	3.05	5.50	2.47	2.40	3.15	2.65	2.40
Aug.	3.05	5.50	2.32	2.55	3.15	2.50	2.40
Sept.	3.05	5.50	2.20	2.75	3.15	2.50	2.40
Oct.	3.05	5.00	2.10	2.90	3.15	2.50	2.42
Nov.	3.05	4.20	2.05	2.85	3.08	2.50	2.50
Dec.	3.05	3.05	2.00	2.80	3.00	2.50	2.50

Av. 3.11 4.57 2.50 2.34 3.10 2.71 2.44

* Independent market; Steel Corporation price remained 3.05.

Annual averages bands and hoops, season prices cotton ties per bundle, 45 lbs.

	Bands.	Hoops.	Ties.
1905	1.48	1.65	.85
1906	1.50	1.88	.85
1907	1.60	2.00	.95
1908	1.50	1.90	.85
1909	1.30	1.56	.70
1910	1.42	1.54	.75
1911	1.28	1.40	.75
1912	1.25	1.36	.70
1913	1.38	1.55	.80
1914	1.15	1.27	.65
1915	1.31	1.40	.85
1916	2.48	2.80	1.35
1917	3.49	4.38	2.10
1918	3.14*	3.49	2.10
1919	3.11	3.11	1.70
1920	4.57	4.57	2.00
1921	2.50	2.50	1.30
1922	2.34	2.34	1.10
1923	3.10	3.10	1.60
1924	2.66	2.71	†1.40
1925	2.44	2.44	†1.28

* Computed on card ruling to May 21, 1918.

† Seaboard.

West Leechburg Steel Co.

Cold Rolled Strip Steel

For Difficult Drawing
and Forming.

Hot Rolled Strip Steel

Pickled and Annealed for
Special Purposes.

Hoops and Bands

GENERAL OFFICES

Pittsburgh Farmers' Bank Building

DISTRICT SALES OFFICES

New York 50 Church Street
Chicago 957 Peoples Gas Building
Detroit 5-255 General Motors Building
Toledo Dean Higgins Co., 906 Ohio Building
Cincinnati 906 Union Central Building
Philadelphia . Edgcomb Steel Co., 11th & Cambria Sts.
Hartford 27 Ardmore Road

COLD ROLLED STRIP.

Cold rolled strip steel, averaged from daily quotations.

	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
January	2.75	3.85	7.00	6.50	6.25	6.25	6.25	3.50	4.50	5.00	4.15
February	2.75	4.10	7.25	6.50	6.25	7.00	6.10	3.50	4.65	4.90	4.00
March	2.75	5.44	7.50	6.50	6.03	7.50	5.85	3.50	5.00	4.85	4.00
April	2.75	6.00	7.70	6.50	5.65	7.75	5.60	3.60	5.20	4.75	4.00
May	2.75	6.00	7.85	6.50	5.65	8.25	5.50	3.65	5.25	4.65	3.97
June	2.80	6.00	8.60	6.50	5.65	8.75	5.40	3.85	5.20	4.50	3.53
July	2.85	6.00	9.20	6.50	5.65	8.50	4.50	4.00	5.00	4.40	3.61
August	2.88	6.00	9.15	6.50	5.65	8.50	4.00	4.10	5.00	4.15	3.75
September	3.03	6.20	8.50	6.50	5.65	8.50	3.90	4.25	5.00	4.10	3.75
October	3.17	6.25	7.50	6.50	5.65	8.25	3.80	4.40	5.00	4.00	3.78
November	3.35	6.40	6.90	6.50	5.65	8.00	3.75	4.50	4.94	4.07	3.90
December	3.55	6.50	6.50	6.35	5.90	6.50	3.65	4.50	4.85	4.15	3.90
Average	2.95	5.73	7.80	6.49	5.80	7.81	4.86	3.95	4.97	4.46	3.86



Pittsburgh Perfect Steel and Wire Products

All Pittsburgh Perfect products are manufactured complete in our own furnaces and mills, exclusively of Basic Open Hearth Material. They include:

Pig Iron Blooms Billets
Rods Wire Wire Nails Barbed Wire
Super-Zincd Fences and other Wire Products
Steel Hoops, Bands and Hot Rolled Strips

Pittsburgh Steel Company Subsidiaries

National Steel Fabric Co.

Union Trust Bldg., Pittsburgh

Welded Reinforcing Fabric

Pittsburgh Steel Products Co.

Union Trust Bldg., Pittsburgh

Seamless Steel Tubes

Pittsburgh Steel Co.
Pittsburgh

New York Chicago San Francisco
Memphis Dallas

WIRE PRODUCTS, Pittsburgh.

	Plain wire.				Painted Galvanized			
	High.	Low.	High.	Low.	High.	Low.	High.	Low.
1895.	1.75	1.10	2.25 ^a	.85 ^b	2.30	1.45	2.70	1.80
1896.	1.35	1.15	2.55 ^c	1.45 ^d	1.75	1.40	2.05	1.70
1897.	1.20	1.10	1.50	1.25	1.50	1.30	1.80	1.60
1898.	1.25	1.10	1.50	1.25	1.50	1.35	1.80	1.65
1899.	2.80	1.20	2.95	1.35	3.40	1.45	3.55	1.80
1900.	3.05	2.15	3.20	2.20	3.65	2.50	3.80	2.80
1901.	2.25	1.85	2.30	1.90	2.60	2.50	2.90	2.80
1902.	2.00	1.75	2.05	1.85	2.60	2.15	2.90	2.45
1903.	1.90	1.75	2.00	1.85	2.30	2.15	2.60	2.45
1904.	1.85	1.45	1.90	1.60	2.25	1.75	2.55	2.05
1905.	1.65	1.60	1.80	1.70	1.95	1.90	2.25	2.20
1906.	1.85	1.65	2.00	1.75	2.15	1.95	2.45	2.25
1907.	1.90	1.85	2.05	2.00	2.20	2.15	2.50	2.45
1908.	1.90	1.80	2.05	1.95	2.20	2.10	2.50	2.40
1909.	1.80	1.40	1.95	1.60	2.10	1.60	2.40	1.90
1910.	1.65	1.50	1.85	1.70	1.85	1.70	2.15	2.00
1911.	1.60	1.30	1.80	1.50	1.80	1.50	2.10	1.80
1912.	1.55	1.35	1.75	1.55	1.75	1.55	2.15	1.85
1913.	1.60	1.30	1.80	1.50	1.80	1.50	2.20	1.90
1914.	1.40	1.30	1.60	1.50	1.60	1.50	2.00	1.90
1915.	1.95	1.30	2.10	1.50	2.25	1.50	2.95	1.90
1916.	2.95	1.95	3.00	2.10	3.15	2.25	3.85	2.95
1917.	3.95	2.95	4.00	3.00	4.15	3.15	4.85	3.85
1918.	3.25	3.25	3.50	3.50	3.65	3.65	4.35	4.35
1919.	3.25	3.00	3.50	3.25	3.65	3.40	4.35	4.10
1920.	4.00	3.00	4.50	3.25	4.45	3.40	5.10	4.10
1921.	3.25	2.50	3.25	2.75	3.40	2.90	4.10	3.40
1922.	2.45	2.25	2.70	2.40	3.00	2.55	3.35	3.05
1923.	2.75	2.45	3.00	2.70	3.45	3.00	3.80	3.35
1924.	2.75	2.50	3.00	2.75	3.45	3.20	3.80	3.45
1925.	2.70	2.50	2.95	2.65	3.40	3.10	3.65	3.35

(a) On temporary high card, equal to 2.75 on either old or present card; (b) On old card, equal to .35 on temporary card; (Actual range in year, 1.90); (c) On temporary high card; (d) in December on present card. Low on temporary high card 2.25, in January. See cards on another page.

Oct. 12, 1912, differential galvanized over plain wire changed from .30 to .40; Mar. 1, 1915, .50; Mar. 17, 1915, .60; June 1, 1915, .80; Aug. 16, 1915, .60; Aug. 23, 1915, .70; June 17, 1921, .50; January, 1923, .60. January, 1923, annealed wire, .15 extra.

WIRE NAIL CARDS.

	Apr. 13, *1886.	Apr. 11, 1892.	July 19, 1895.	Dec. 1, 1896.	Pres- ent.†
60	Base	Base	.50	Base	Base
50	Base	.10	.50	Base	Base
30-40	Base	.25	.50	Base	Base
20	Base	.35	.50	Base	Base
16	Base	.45	.50	.05	.10
12	Base	.45	.50	.05	.15
10	Base	.50	.50	.05	.20
8-9	.35	.60	.60	.10	.30
7	.75	.75	.75	.20	.55
6	.75	.75	.75	.20	.60
5	1.10	.90	.90	.30	.75
4	1.10	.90	.90	.30	.80
3	2.25	1.20	1.20	.45	1.15
2	4.00	1.60	1.60	.70	1.45

* First wire nail card; base price \$4.25.

† Issued by independents Feb. 16, 1920;
by American Steel & Wire Co. August, 1920.

NAIL PRODUCTION—Kegs, 100 lbs.

	Cut nails.	Wire nails.	Total.
1886	8,160,973	600,000	8,760,973
1890	5,640,946	3,135,911	8,776,857
1895	2,129,894	5,841,403	7,971,297
1900	1,573,494	7,233,979	8,807,473
1905	1,357,549	10,854,892	12,212,441
1910	1,005,233	12,704,902	13,710,135
1913	842,038	13,559,727	14,401,765
1914	769,665	13,132,814	13,902,479
1915	775,327	14,583,026	15,358,353
1916	764,835	17,147,665	17,912,500
1917	401,074	17,040,066	17,502,340
1918	418,811	12,279,800	12,698,611
1919	394,477	13,094,221	13,488,698
1920	844,583	16,449,506	17,294,089
1921	538,834	11,889,412	12,428,246
1922	810,206	15,053,330	15,863,536
1923	829,604	17,672,582	18,502,186
1924	741,668	15,101,318	15,842,986
Maximum cut nails, 1886	8,160,973		
Maximum wire nails, 1923		17,672,582	

GROOVED STEEL SKELP.

Annual averages, Pittsburgh.

1894	1.08	1910	1.43
1895	1.15	1911	1.23
1896	1.08	1912	1.24
1897	.94	1913	1.39
1898	.98	1914	1.17
1899	1.80	1915	1.27
1900	1.54	1916	2.34
1901	1.68	1917	3.95
1902	2.06	1918	2.89
1903	1.74	1919	2.51
1904	1.51	*1920	3.00
1905	1.51	1921	1.96
1906	1.58	1922	1.72
1907	1.81	1923	2.34
1908	1.66	1924	2.17
1909	1.34	1925	1.95

Monthly averages.

	1919.	*1920.	1921.	1922.	1923.	1924.	1925.
Jan.	2.70	2.45	2.45	1.50	2.00	2.40	2.00
Feb.	2.70	2.60	2.30	1.46	2.16	2.40	2.00
Mar.	2.61	2.75	2.20	1.40	2.30	2.35	2.00
Apr.	2.45	2.75	2.15	1.50	2.40	2.30	2.00
May	2.45	3.00	2.20	1.55	2.42	2.25	2.00
June	2.45	3.50	2.10	1.60	2.40	2.20	2.00
July	2.45	3.25	1.90	1.62	2.40	2.10	1.90
Aug.	2.45	3.25	1.75	1.82	2.40	2.05	1.90
Sept.	2.45	3.25	1.67	2.10	2.40	2.05	1.90
Oct.	2.45	3.25	1.65	2.05	2.40	2.00	1.90
Nov.	2.45	3.10	1.60	2.00	2.40	1.93	1.90
Dec.	2.45	2.85	1.52	2.00	2.40	2.00	1.90
Av.	2.51	3.00	1.96	1.72	2.34	2.17	1.95

* Independent market; Steel Corporation not a seller.

BOILER TUBES

of

KNOBBLED CHARCOAL IRON

and

LAPWELDED OPEN HEARTH STEEL

LAPWELD PIPE

THE TYLER TUBE &
PIPE COMPANY

WASHINGTON, PA.

WAREHOUSE STOCKS

Johnson-Peter Company

Brooklyn, N. Y. and Pittsburgh, Pa.

A. M. Castle & Company

Chicago, Ill., Seattle, Wash., San Francisco, Cal.
and Los Angeles, Cal.

*Harrisburg Pipe & Pipe Bending
Co. of Texas, Inc.*

Houston, Texas

Lukens Steel Co.

New Orleans, La.

Bourne-Fuller Co.

Cleveland, Ohio

PIPE AND TUBE PRODUCTION.

Welded tubular goods, gross tons. (Details for certain years on another page.)

	Iron.	Steel.	Total.
1913.....	276,067	1,969,465	2,245,532
1915.....	206,513	1,713,161	1,919,674
1916.....	278,117	2,372,941	2,651,058
1917.....	273,890	2,213,087	2,486,977
1918.....	202,958	2,087,521	2,290,479
1919.....	162,356	2,212,575	2,374,931
1920.....	199,673	2,803,052	3,002,725
1921.....	110,293	1,877,149	1,987,442
1922.....	171,235	2,561,001	2,732,236
1923.....	177,856	3,173,167	3,351,023
1924.....	140,831	2,683,425	2,824,256

Seamless steel tubes, gross tons.

	Hot finished.	Cold drawn.	Total.
1913.....	42,740	65,827	108,567
1915.....	63,488	76,180	139,668
1916.....	61,235	129,238	190,473
1917.....	87,615	139,060	226,675
1918.....	142,308	150,586	292,894
1919.....	75,864	121,505	197,369
1920.....	132,091	159,479	291,570
1921.....	59,663	58,221	117,884
1922.....	120,652	137,183	257,835
1923.....	202,669	201,114	403,783
1924.....	131,758	129,399	261,157

Cast iron pipe and fittings, net tons.

	Gas, water and culvert.	Soil and plumbers'.	Total.
1913.....	1,010,016	256,229	1,266,245
1915.....	956,372	258,498	1,214,870
1916.....	934,626	279,707	1,214,333
1917.....	748,173	250,928	999,101
1918.....	508,300	111,373	619,673
1919.....	514,664	195,417	710,081
1920.....	636,862	249,653	886,515
1921.....	564,138	230,092	794,230
1922.....	926,577	356,872	1,283,449
1923.....	1,134,059	432,828	1,566,887
1924.....	1,365,272	476,078	1,841,350

Note. No statistics for items on this page gathered prior to 1913.



A large part of the welded pipe produced in this country is made on our mills and marked under the trade name "Youngstown."

It has earned its reputation in performance and maintains that reputation by **QUALITY**.

Among our other finished products are Plates, Sheets, Bars, Wire and Wire Products, together with "BUCKEYE" Conduit and "REALFLEX" Armored Conductor,

Making them from the ore itself, we are able to say of all these products that no better can be produced commercially.

The
**YOUNGSTOWN SHEET
AND TUBE COMPANY**
YOUNGSTOWN, OHIO

WROUGHT PIPE PRODUCTION.

Wrought pipe production, gross tons:

1913—	Iron.	Steel.	Total.
Black std. pipe	120,619	709,853	830,472
Galv. std. pipe	25,320	241,617	266,940
Oil country goods	84,778	756,311	841,089
O. D. pipe, etc.	2,159	177,052	179,211
Boiler tubes	43,188	84,632	127,820
Total welded	276,067	1,969,465	2,245,532
1919—			
Black std. pipe	51,682	775,400	827,082
Galv. std. pipe	14,661	253,495	268,156
Oil country goods	73,522	995,392	1,068,914
O. D. pipe, etc. ....	.....	120,670	120,670
Boiler tubes	22,491	67,618	90,109
Total welded	162,356	2,212,575	2,374,931
1920—			
Black std. pipe	75,066	1,093,702	1,168,768
Galv. std. pipe	19,560	297,759	317,319
Oil country goods	71,610	1,190,168	1,261,778
O. D. pipe etc. ....	.....	135,924	135,924
Boiler tubes	33,437	85,499	118,936
Total welded	199,673	2,803,052	3,002,725
1921—			
Black std. pipe	45,337	685,459	730,796
Galv. std. pipe	20,937	246,122	267,059
Oil country goods	29,026	862,969	891,995
O. D. pipe, etc.	104	40,355	40,459
Boiler tubes	14,889	42,244	57,133
Total welded	110,293	1,877,149	1,987,442
1922—			
Black std. pipe	87,154	973,906	1,061,060
Galv. std. pipe	30,852	359,288	390,140
Oil country goods	33,223	1,106,611	1,139,834
O. D. pipe, etc.	62	66,713	66,775
Boiler tubes	19,944	54,483	74,427
Total welded	171,235	2,561,001	2,732,236
1923—			
Black std. pipe	83,554	1,293,793	1,377,347
Galv. std. pipe	34,600	423,315	457,915
Oil country goods	34,130	1,324,759	1,358,889
O. D. pipe, etc. ....	.....	65,831	65,831
Boiler tubes	25,572	65,469	91,041
Total welded	177,856	3,173,167	3,351,023
1924—			
Black std. pipe	59,044	1,021,388	1,080,432
Galv. std. pipe	33,702	470,317	504,019
Oil country goods	32,205	1,151,662	1,183,867
O. D. pipe, etc. ....	.....	50,046	50,046
Boiler tubes	15,880	40,012	55,892
Total welded	140,831	2,683,425	2,824,256

Notes—No statistics similar to the above were gathered for years prior to 1913.

Annual production wrought pipe, seamless tubes and cast pipe on another page.

NATIONAL

NATIONAL TUBE COMPANY

Frick Building, Pittsburgh, Pa.

District Sales Offices in The Larger Cities

Manufacturers of

"NATIONAL" WELDED

AND

**"NATIONAL-SHELBY" SEAMLESS
WROUGHT TUBULAR PRODUCTS**

In sizes from $\frac{1}{8}$ -inch to 96 inches
Standard Black and Galvanized Pipe
Extra and Double Extra Strong Pipe

Lap-weld Spellerized Boiler Tubes
Seamless Cold Drawn Boiler Tubes
Seamless Hot Rolled Boiler Tubes

Casing, Tubing, Drive Pipe, Rotary Drill
Pipe, Gas and Oil Line Pipe,
Working Barrels, etc.

Water and Gas Mains, Hydraulic Pipe,
Matheson Joint Pipe, Special Dipped
and Coated Pipe, Large O. D.
Pipe, Hammer-weld Pipe.

Air Line, Air Brake and Signal Pipe,
Trolley Poles, Line Poles and Flag Poles

Anhydrous Ammonia, Carbonic Acid,
Oxygen, Hydrogen, Compressed Air,
Nitrous Oxide Gas, and Car Lighting
Cylinders

Seamless Mechanical Tubing and
Miscellaneous Forgings

STANDARD STEEL PIPE.

Full standard weight steel pipe, basing (card) discounts on "jobbers' carloads". Dates with no change indicate new cards with other discounts changed. Such data omitted prior to Oct. 1, 1909.

Feb. 21, 1900	59	May 27, 1913	79
May 1, 1900	67	Aug. 8, 1913	80
July 1, 1900	70	Oct. 27, 1913	80*
Aug. 1, 1900	72	Feb. 2, 1914	79½
Sept. 1, 1900	70	Apr. 20, 1914	80
Mar. 1, 1902	69	Nov. 2, 1914	81†
Mar. 15, 1902	67	Feb. 11, 1915	80
Nov. 12, 1902	75	May 1, 1915	79
Dec. 31, 1903	77	Nov. 1, 1915	78
Feb. 1, 1904	76	Jan. 4, 1916	77*
Mar. 1, 1904	75	Jan. 20, 1916	76
June 1, 1904	76	Feb. 15, 1916	75
July 1, 1904	78½	Feb. 29, 1916	74
Sept. 3, 1904	79	Mar. 15, 1916	73
Oct. 19, 1904	78	Mar. 29, 1916	72
Nov. 1, 1904	77	Apr. 21, 1916	70
Jan. 2, 1905	76½	July 24, 1916	70
Feb. 1, 1905	76	Sept. 7, 1916	69
Mar. 1, 1905	75½	Nov. 1, 1916	69
Apr. 20, 1905	75	Nov. 15, 1916	68
Oct. 2, 1905	79	Dec. 4, 1916	66
Oct. 12, 1906	77	Dec. 30, 1916	64
Dec. 4, 1906	76	Feb. 14, 1917	62
Dec. 20, 1906	75	Mar. 5, 1917	60
Jan. 24, 1907	74	Apr. 2, 1917	55
May 14, 1907	72	May 1, 1917 (a)	49
June 10, 1908	74	June 19, 1917 (b)	42
Feb. 19, 1909	79	Nov. 6, 1917 (c)	51
Oct. 1, 1909	78	Dec. 13, 1918	54
Jan. 1, 1910	78	Mar. 21, 1919	57½
Oct. 1, 1910	80	Jan. 1920 (d)	54
Oct. 2, 1911	81	Dec. 31, 1920 (d)	57½
Dec. 1, 1911	82	Apr. 13, 1921	62½
Dec. 15, 1911	82	July 7, 1921	64½
June 1, 1912	81	Sept. 16, 1921	68½
July 1, 1912	81	Dec. 16, 1921	71
July 24, 1912	80	Aug. 23, 1922	68
Sept. 10, 1912	79	Oct. 19, 1922	66
Jan. 1, 1913	80	Feb. 3, 1923	64†
Apr. 12, 1913	79½	Apr. 19, 1923	62

Sept. 23, 1924, Lorain base established, same as Pittsburgh. Sept. 30, 1924, Chicago base, two points less discount than Pittsburgh.

* Extra 2½ per cent. established. † Removed.

(a) Except National and Republic; (b) Except National, Republic and Youngstown; (c) Government price; (d) Independents.

Prior to January 1, 1913, "merchant weight" pipe was also made. Beginning March 16, 1903, published cards showed merchant weight, full weight being one point higher in price.

STEEL PIPE CARDS.

Typical discount cards, jobbers' carloads.

December 31, 1903, merchant weight.

	Black.	Galv.
$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$	71	61
$\frac{1}{2}$	74	64
$\frac{3}{4}$ to 6	78	68
7 to 12	72	62

December 15, 1911, merchant weight.

$\frac{1}{8}$, $\frac{1}{4}$	75	55
$\frac{3}{8}$	76	66
$\frac{1}{2}$	79	69
$\frac{3}{4}$ to $1\frac{1}{2}$	82	74
2 to 3 (butt)	83	76
2 (lap)	80	73
$2\frac{1}{2}$ to 4	82	75
$4\frac{1}{2}$ to 6	81	73
7 to 12 (card wt.)	78	68

January 1, 1913, standard weight.

$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$	73	$52\frac{1}{2}$
$\frac{1}{2}$	77	$66\frac{1}{2}$
$\frac{3}{4}$ to 3 (butt)	80	$71\frac{1}{2}$
2 (lap)	77	$68\frac{1}{2}$
$2\frac{1}{2}$ to 6	79	$70\frac{1}{2}$
7 to 12	76	$65\frac{1}{2}$

April 19, 1923, standard weight.

$\frac{1}{8}$	45	$19\frac{1}{2}$
$\frac{1}{4}$ and $\frac{3}{8}$	51	$25\frac{1}{2}$
$\frac{1}{2}$	56	$42\frac{1}{2}$
$\frac{3}{4}$	60	$48\frac{1}{2}$
1 to 3 (butt)	62	$50\frac{1}{2}$
2 (lap)	55	$43\frac{1}{2}$
$2\frac{1}{2}$ to 6	59	$47\frac{1}{2}$
7 to 8	56	$43\frac{1}{2}$
9 to 10	54	$41\frac{1}{2}$
11 to 12	53	$40\frac{1}{2}$

STANDARD STEEL PIPE.

The list adopted January 1, 1913; weights of full standard weight per foot, plain ends; list prices per foot, full standard weight, extra strong and double extra strong.

Nominal Inside Diam.	Actual Outside Diam.	Weight per foot, Pounds.	LIST PRICES PER FOOT. Standard Weight.	Extra Strong.	XX Strong.
1/8..	.405	.244	\$.05 1/2	\$.12	....
1/4..	.540	.424	.06	.07 1/2	....
3/8..	.675	.567	.06	.07 1/2	....
1/2..	.840	.850	.08 1/2	.11	\$.32
3/4..	1.050	1.130	.11 1/2	.15	.35
1....	1.315	1.678	.17	.22	.37
1 1/4..	1.660	2.272	.23	.30	.52 1/2
1 1/2..	1.900	2.717	.27 1/2	.36 1/2	.65
2....	2.375	3.652	.37	.50 1/2	.91
2 1/2..	2.875	5.793	.58 1/2	.77	1.37
3....	3.500	7.575	.76 1/2	1.03	1.86
3 1/2..	4.000	9.109	.92	1.25	2.30
4....	4.500	10.790	1.09	1.50	2.76
4 1/2..	5.000	12.538	1.27	1.80	3.26
5....	5.563	14.617	1.48	2.08	3.86
6....	6.625	18.974	1.92	2.86	5.32
7....	7.625	23.544	2.38	3.81	6.35
8....	8.625	24.696	2.50	4.34	7.25
8....	8.625	28.554	2.88	....	....
9....	9.625	33.907	3.45	4.90	....
10....	10.750	31.201	3.20	5.48	....
10....	10.750	34.240	3.50	....	....
10....	10.750	40.483	4.12	....	....
11....	11.750	45.557	4.63	6.10	....
12....	12.750	43.773	4.50	6.55	....
12....	12.750	49.562	5.07	....	....
13....	14.000	54.568	5.60	....	....
14....	15.000	58.573	6.10	....	....
15....	16.000	62.579	6.50	....	....

CAST IRON PIPE

It is a well-known fact that cast iron is corrosion resisting to a very marked degree and though it will quickly become covered with rust, cast iron will remain practically unchanged in weight and strength, under conditions that would prove fatal to other forms of iron or steel in ten to twenty years.

This is true because cast iron possesses a structure of the same granular form as the iron ore from which it was made. Therefore the oxide which penetrates between the crystals is held together with natural metallic bonds and does not flake off.

Recently the field for cast iron pipe has been broadening until now it is used in practically every industry.

*Write for United States Cast Iron Pipe
Handbook*

It Contains a Wealth of Valuable Data

United States Cast Iron Pipe

and Foundry Company

General Office
Burlington, New Jersey

CAST IRON PIPE PRICES.

Six-inch and heavier, delivered New York, per ton of 2,000 pounds.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.*	1924.*	1925.
Jan.	22.00	25.00	22.00	20.00	29.00	41.50	53.35	65.70	66.30	63.20	37.20	54.50	56.50	51.00
Feb.	22.00	24.75	21.75	20.25	29.50	41.50	53.35	62.70	70.30	63.20	35.20	56.00	57.00	51.00
Mar.	22.00	23.75	21.00	21.00	29.75	43.10	55.35	62.70	71.30	61.72	38.20	57.50	57.00	51.00
Apr.	21.50	23.50	20.75	21.75	30.50	50.88	55.35	57.70	74.45	58.20	44.45	58.25	57.00	50.00
May	21.50	23.00	20.50	22.25	30.50	55.50	56.60	54.45	76.30	56.80	45.20	58.50	57.00	48.00
June	21.50	23.00	20.50	22.50	30.50	60.75	61.44	52.03	76.30	51.08	46.70	62.00	56.50	48.00
July	22.00	23.00	20.25	22.75	30.50	65.50	61.75	50.46	76.30	48.20	50.10	62.00	56.00	48.00
Aug.	22.25	23.00	20.00	23.50	30.50	65.50	61.75	52.33	76.47	48.20	51.10	62.75	56.00	48.00
Sept.	23.25	23.00	19.75	24.50	31.00	65.50	61.75	54.30	77.21	48.20	52.60	62.00	55.00	48.00
Oct.	24.50	23.00	19.50	25.50	31.50	61.00	67.70	55.30	77.20	42.00	52.60	61.00	54.00	48.00
Nov.	24.50	23.00	19.50	26.50	35.85	56.50	67.70	58.30	74.80	41.20	52.60	60.50	53.00	48.00
Dec.	24.75	22.00	19.50	27.50	40.65	56.50	67.70	61.30	68.58	41.20	52.60	59.50	52.00	48.00
AV.	22.65	23.33	20.42	23.17	31.65	55.31	63.65	57.27	73.79	51.93	46.55	59.54	55.58	48.92

* F.o.b. foundry; freight to New York, \$2.60 to \$2.90.

COMMON IRON BARS.

Annual averages of quotations, base.
Pittsburgh.

1845 ... 4.3	1859 ... 3.7	1873 ... 3.6	1887 ... 1.56
1846 ... 4.1	1860 ... 3.6	1874 ... 2.8	1888 ... 1.80
1847 ... 3.8	1861 ... 2.3	1875 ... 2.5	1889 ... 1.77
1848 ... 3.5	1862 ... 3.5	1876 ... 2.5	1890 ... 1.85
1849 ... 3.0	1863 ... 4.5	1877 ... 2.0	1891 ... 1.70
1850 ... 2.7	1864 ... *6.7	1878 ... 2.0	1892 ... 1.61
1851 ... 2.4	1865 ... 5.3	1879 ... 2.5	1893 ... 1.55
1852 ... 2.6	1866 ... 5.0	1880 ... 2.75	1894 ... 1.13
1853 ... 4.0	1867 ... 4.5	1881 ... 2.32	1895 ... 1.16
1854 ... 3.5	1868 ... 3.7	1882 ... 2.41	1896 ... 1.11
1855 ... 3.0	1869 ... 3.5	1883 ... 1.99	1897 ... 1.00
1856 ... 3.0	1870 ... 3.3	1884 ... 1.77	1898 ... .95
1857 ... 4.3	1871 ... 3.4	1885 ... 1.65	1899 ... 1.71
1858 ... 4.3	1872 ... 4.6	1886 ... 1.72	1900 ... 1.64

* Record high, December 7.50; gold in 1864 262.

Pittsburgh. Philadelphia. Chicago.

1898	.95	1.08	1.05
1899	1.71	1.77	1.80
1900	1.64	1.66	1.75
1901	1.46	1.52	1.58
1902	1.74	1.88	1.71
1903	1.64	1.71	1.65
1904	1.32	1.44	1.41
1905	1.65	1.71	1.65
1906	1.65	1.73	1.71
1907	1.73	1.84	1.78
1908	1.47	1.50	1.56
1909	1.49	1.49	1.42
1910	1.53	1.45	1.44
1911	1.30	1.28	1.21
1912	1.38	1.38	1.32
1913	1.59	1.51	1.45
1914	1.27	1.20	1.07
1915	1.32	1.37	1.24
1916	2.59	2.57	2.31
1917	4.09	4.06	3.78
1918	3.50	3.69	3.50
1919	2.80	2.94	2.69
1920	4.13	4.35	3.65
1921	2.30	2.23	2.13
1922	2.04	2.06	1.94
1923	2.68	2.68	2.48
1924	2.43	2.43	2.24
1925	2.24	2.21	2.01

BAR IRON FROM STORE.

Best refined bar iron from store, Philadelphia; annual averages; taken from sales books prior to 1887; from quotations since. Compiled by American Iron and Steel Association through 1912. In recent years furnished to American Iron and Steel Institute by Iron Merchants' Association, Philadelphia and H. F. Gillingham & Company.

1844.	3.82	1864.	6.50	1884.	1.97	1904.	1.72
1845.	4.19	1865.	4.75	1885.	1.80	1905.	1.92
1846.	4.10	1866.	4.38	1886.	1.92	1906.	1.98
1847.	3.84	1867.	3.89	1887.	2.20	1907.	2.11
1848.	3.55	1868.	3.82	1888.	2.01	1908.	1.70
1849.	3.01	1869.	3.65	1889.	1.94	1909.	1.76
1850.	2.66	1870.	3.52	1890.	2.05	1910.	1.85
1851.	2.44	1871.	3.51	1891.	1.90	1911.	1.64
1852.	2.62	1872.	4.36	1892.	1.87	1912.	1.75
1853.	3.73	1873.	3.87	1893.	1.70	1913.	1.92
1854.	4.09	1874.	3.03	1894.	1.34	1914.	1.59
1855.	3.33	1875.	2.72	1895.	1.44	1915.	1.74
1856.	3.30	1876.	2.32	1896.	1.40	1916.	3.27
1857.	3.17	1877.	2.03	1897.	1.31	1917.	4.58
1858.	2.78	1878.	1.97	1898.	1.28	1918.	4.54
1859.	2.72	1879.	2.31	1899.	2.07	1919.	3.70
1860.	2.62	1880.	2.70	1900.	1.96	1920.	4.76
1861.	2.72	1881.	2.59	1901.	1.84	1921.	2.97
1862.	3.14	1882.	2.74	1902.	2.13	1922.	2.61
1863.	4.06	1883.	2.25	1903.	2.00	1923.	3.37

Monthly averages, less 2% cash discount.

	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	5.00	3.81	3.56	2.45	2.98	3.40	3.14
Feb.	4.85	4.21	3.56	2.45	3.09	3.40	3.14
Mar.	3.51	4.68	3.42	2.35	3.23	3.18	3.14
Apr.	3.32	4.95	3.17	2.31	3.44	3.18	3.14
May	3.32	4.95	3.17	2.41	3.48	3.18	3.11
June	3.32	4.95	2.97	2.40	3.48	3.04	2.84
July	3.32	4.95	2.77	2.49	3.48	3.04	2.84
Aug.	3.56	4.95	2.72	2.70	3.48	3.04	3.01
Sept.	3.56	4.95	2.47	2.85	3.48	3.04	3.14
Oct.	3.56	5.20	2.62	2.96	3.48	3.04	3.14
Nov.	3.56	4.95	2.62	2.96	3.49	3.04	3.14
Dec.	3.56	4.55	2.62	2.95	3.40	3.12	3.04
Av.	3.70	4.76	2.97	2.61	3.37	3.14	3.07

IRON BARS, PHILADELPHIA.

Delivered Philadelphia, averaged from daily quotations.

	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	1.35	1.27	1.68	1.24	1.12	2.24	3.16	3.68	3.74	3.70	2.85	1.80	2.36	2.63	2.30
Feb.	1.34	1.25	1.67	1.28	1.12	2.41	3.16	3.68	3.25	4.13	2.70	1.75	2.51	2.61	2.28
Mar.	1.35	1.23	1.65	1.28	1.13	2.56	3.41	3.68	2.95	4.22	2.56	1.70	2.70	2.56	2.28
Apr.	1.34	1.27	1.68	1.23	1.18	2.62	3.41	3.68	2.60	4.22	2.35	1.81	2.82	2.52	2.25
May	1.28	1.30	1.68	1.23	1.18	2.66	4.16	3.68	2.60	4.35	2.35	1.86	2.82	2.49	2.22
June	1.27	1.30	1.61	1.23	1.20	2.66	4.75	3.69	2.60	4.50	2.20	1.96	2.80	2.40	2.22
July	1.27	1.32	1.55	1.19	1.32	2.66	4.80	3.73	2.62	4.75	2.07	2.12	2.69	2.32	2.22
Aug.	1.27	1.34	1.42	1.18	1.43	2.66	4.92	3.73	2.74	4.77	2.00	2.16	2.72	2.32	2.17
Sept.	1.25	1.40	1.33	1.18	1.49	2.66	4.94	3.73	2.74	4.73	1.97	2.48	2.70	2.32	2.12
Oct.	1.22	1.55	1.32	1.14	1.57	2.66	4.46	3.73	2.75	4.71	1.92	2.43	2.67	2.32	2.12
Nov.	1.20	1.67	1.30	1.13	1.72	2.66	3.90	3.74	3.13	4.25	1.90	2.37	2.67	2.32	2.17
Dec.	1.23	1.68	1.25	1.12	1.99	3.02	3.68	3.74	3.51	3.85	1.85	2.32	2.65	2.32	2.22
Av.	1.28	1.38	1.51	1.20	1.37	2.57	4.06	3.71	2.94	4.35	2.23	2.06	2.68	2.43	2.21

IRON BARS, CHICAGO.

Common iron bars, Chicago, averaged from daily quotations.

	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	1.55	1.30	1.15	1.60	1.11	.97	1.79	3.00	3.50	3.12	3.12	2.68	1.60	2.45	2.40	2.00
Feb.	1.55	1.28	1.15	1.59	1.14	1.03	1.92	3.00	3.50	2.97	3.37	2.62	1.60	2.35	2.40	2.03
Mar.	1.55	1.25	1.15	1.58	1.15	1.10	2.17	3.00	3.50	2.70	3.65	2.60	1.54	2.50	2.40	2.10
Apr.	1.50	1.23	1.15	1.58	1.14	1.14	2.35	3.25	3.50	2.53	3.75	2.45	1.57	2.60	2.36	2.10
May	1.48	1.20	1.22	1.55	1.10	1.15	2.35	3.40	3.50	2.50	3.75	2.38	1.65	2.60	2.30	2.10
June	1.45	1.20	1.26	1.50	1.08	1.17	2.35	4.15	3.50	2.50	3.85	2.25	1.73	2.60	2.25	2.10
July	1.40	1.20	1.31	1.50	1.06	1.20	2.35	4.50	3.50	2.50	3.90	1.94	1.85	2.60	2.22	2.00
Aug.	1.38	1.20	1.38	1.44	1.07	1.22	2.35	4.50	3.50	2.62	3.80	1.75	1.95	2.60	2.20	1.90
Sept.	1.36	1.20	1.44	1.37	1.07	1.30	2.35	4.50	3.50	2.62	3.75	1.75	2.25	2.40	2.18	1.90
Oct.	1.35	1.19	1.50	1.27	1.01	1.38	2.35	4.50	3.50	2.66	3.75	1.75	2.50	2.35	2.10	1.90
Nov.	1.35	1.16	1.55	1.15	.96	1.51	2.50	4.00	3.50	2.73	3.75	1.70	2.50	2.35	2.07	1.95
Dec.	1.32	1.15	1.55	1.12	.94	1.69	2.89	3.50	3.50	2.82	3.39	1.63	2.50	2.35	2.05	2.00
Av.	1.44	1.21	1.32	1.45	1.07	1.24	2.31	3.78	3.50	2.60	3.65	2.13	1.94	2.48	2.24	2.01

The Eastern Rolling Mill Company

BALTIMORE, MARYLAND

Producers of
HIGH GRADE
**Automobile
Metallic Furniture
and
Pickled
Steel Sheets**

PLATE AND SHEET PRODUCTION.

	1894.	1895.	1896.	1897.
8-heavier	375,117	508,343	458,136	597,549
9—19....	80,099	112,537	113,826	107,891
20—25...	73,968	91,449	89,760	96,930
26-lighter	153,716	279,130	304,054	404,916
9-lighter	307,783	483,116	507,640	609,737

1898, No. 9 and lighter 809,440

	Plates, 12 down.	Sheets, 13 up.	Total sheets Black and black plates. plates.
1905.	2,041,206	983,437	507,587 1,491,024
1906.	2,531,552	1,074,525	576,079 1,650,604
1907.	2,660,060	1,084,700	504,072 1,588,772
1908.	1,271,021	864,901	513,771 1,378,672
1909.	2,379,098	1,248,766	606,482 1,855,248
1910.	2,807,728	1,435,619	712,137 2,147,756
1911.	2,334,341	1,358,110	795,598 2,153,708
1912.	3,035,200	1,857,683	982,197 2,839,880
1913*	3,255,107	1,464,631	1,031,299† 2,495,930
1914	2,237,693	1,302,355	1,178,198† 2,481,553
1915.	3,038,260	1,676,577	1,362,857† 3,039,434
1916.	3,949,193	1,977,788	1,526,999† 3,504,787
1917.	4,158,238	2,367,752	1,741,626† 4,109,378
1918.	5,525,471	1,668,076	1,605,588† 3,273,664
1919*	4,172,179	1,818,982	1,381,653† 3,200,635
1920*	5,122,462	2,519,072	1,696,146† 4,215,218
1921*	1,904,453	1,367,688	988,433† 2,356,121
1922*	3,720,946	2,616,210	1,631,241† 4,247,451
1923*	4,593,671	3,078,145	1,825,901† 4,904,046
1924*	3,591,083	2,824,212	1,672,588 4,496,800

* Details on following page.

† Includes tin mill black not tinned.

Note.—Gross tons throughout. No separate statistics were collected prior to 1894, or between 1898 and 1905; above statistics 1894-8 include black plates; for a series of years the total plate, sheet and black plate production is shown under "rolled iron and steel."



THE NEWTON STEEL CO.

Producers of "Quality"

**Automobile
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Full Pickled
Single Pickled
Enameling
Bow Socket
and
Black
STEEL SHEETS**

General Offices: Youngstown, O.

District Offices:

Chicago

New York

Cleveland

Detroit

PLATE AND SHEET PRODUCTION—Gross Tons.

	1913.	1918.	1919.	1920.	1921.	1922.	1923.	1924	
	Total.	Total.	Total.	Total.	Total.	Total.	Total.	Iron.	Steel.
Universal plates:									
¾ inch thick and over	1,110,074	1,203,664	938,474	1,127,045	537,531	1,087,770	1,173,525	1,501	925,335
Under ¾ inch thick	48,342	31,118	53,580	122,724	33,079	160,643	130,702	.....	74,858
Total universal plates	1,158,416	1,234,782	992,054	1,249,769	570,610	1,248,413	1,304,227	1,501	1,000,193
Sheared: (single stand)									
¾ inch thick and over	1,181,224	2,949,732	2,208,208	2,622,131	880,282	1,488,781	1,970,181	189	1,447,875
Under ¾ inch thick	214,403	175,317	165,488	221,705	105,080	223,131	371,246	48	204,961
Total	1,395,627	3,125,049	2,373,696	2,843,836	985,362	1,711,912	2,341,427	237	1,652,836
Sheared: (separate stands)									
¾ inch thick and over	251,030	495,552	259,448	282,496	58,475	123,320	114,214	.....	146,481
Under ¾ inch thick	197,697	264,525	266,123	379,032	145,877	336,275	408,877	.....	347,617
Total	448,727	760,077	525,571	661,528	204,352	459,595	523,091	.....	494,098
Total sheared plates	1,844,354	3,885,126	2,899,267	3,505,364	1,189,714	2,171,507	2,864,518	237	2,146,934
Total plates	3,002,770	5,119,908	3,891,321	4,755,133	1,760,324	3,419,920	4,168,745	1,738	3,147,127
Black sheets: (sheet or jobbing mill)									
No. 12 ga. and thicker	252,337	405,563	280,858	367,329	144,129	301,036	424,926	1,815	440,403
No. 13 ga. and thinner	1,465,301	1,668,076	1,818,982	2,519,072	1,367,688	2,616,210	3,078,145	29,560	2,794,652
Total black sheets	1,717,638	2,073,639	2,099,840	2,886,401	1,511,817	2,917,236	3,503,071	31,375	3,235,055
Rolled on tin mills:									
Black plates for tinning	827,266	1,502,690	1,165,436	1,449,330	786,962	1,266,652	1,498,830	.....	1,415,182
All other	204,033	102,898	216,217	246,816	201,471	364,589	327,071	.....	257,406
Total tin mill	1,031,299	1,605,588	1,381,653	1,696,146	988,433	1,631,241	1,825,901	.....	1,672,588
Total plates and sheets	5,751,037	8,799,135	7,372,814	9,337,680	4,260,574	7,968,397	9,497,717	33,113	8,054,770

**EXTRA DEEP DRAWING
SHEET STEEL**



**AUTO BODY
HOOD & FENDER
METALLIC FURNITURE
AND SINGLE PICKLED**

**MICHIGAN STEEL
CORPORATION**

**Mill and General Office
ECORSE, DETROIT, MICHIGAN.**

BLUE ANNEALED SHEETS.

Averaged from daily quotations, Pittsburgh, 10 gauge.

	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	†1920.	1921.	1922.	1923.	1924.	1925.
Jan.	1.75	1.62	1.40	1.70	1.40	1.30	2.55	4.25	4.25	3.90	3.70	3.55	2.25	2.50	3.00	2.70
Feb.	1.81	1.65	1.37	1.75	1.40	1.30	2.65	4.50	4.25	3.90	4.25	3.30	2.25	2.55	3.00	2.70
Mar.	1.90	1.65	1.35	1.75	1.40	1.30	2.85	4.70	4.25	3.78	4.75	3.00	2.25	2.95	2.95	2.70
Apr.	1.90	1.65	1.36	1.75	1.40	1.33	2.95	5.40	4.25	3.55	5.50	3.05	2.37	3.20	2.85	2.59
May	1.90	1.63	1.40	1.75	1.37	1.35	3.00	6.70	4.25	3.55	5.75	3.10	2.40	3.15	2.75	2.40
June	1.82	1.50	1.44	1.75	1.35	1.33	3.00	8.00	4.25	3.55	5.50	2.95	2.40	3.10	2.75	2.32
July	1.75	1.50	1.45	1.75	1.35	1.32	2.90	8.25	4.25	3.55	6.00	2.55	2.40	3.00	2.71	2.25
Aug.	1.73	1.45	1.48	1.69	1.36	1.37	2.90	8.00	4.25	3.55	6.00	2.30	2.46	3.00	2.66	2.25
Sept.	1.65	1.44	1.52	1.63	1.40	1.51	2.90	8.00	4.25	3.55	5.50	2.33	2.60	3.00	2.70	2.25
Oct.	1.60	1.40	1.58	1.57	1.43	1.60	3.15	7.50	4.25	3.55	5.35	2.25	2.70	3.00	2.70	2.27
Nov.	1.60	1.40	1.65	1.52	1.40	1.90	3.37	4.43	4.25	3.55	4.75	2.25	2.55	3.00	2.70	2.40
Dec.	1.60	1.36	1.65	1.50	1.33	2.26	3.65	4.25	4.04	*3.55	3.63	2.25	2.50	3.00	2.70	2.48

Av. 1.75 1.52 1.47 1.68 1.38 1.49 2.99 6.15 4.23 3.63 5.06 2.74 2.43 2.95 2.79 2.44

* Premiums for prompt shipment. † Independent market; Steel Corporation price remained 3.55.

APOLLO

STEEL COMPANY

BLUE ANNEALED-BLACK AND GALVANIZED SHEETS

GENERAL OFFICES: APOLLO, PA.

Pittsburgh Office, Room 2218 Oliver Building

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Memphis	646 Randolph Bldg.
New Orleans	411 S. Peters Street.
New York	Room 1372, 50 Church St.
Philadelphia	607 Otis Building.
San Francisco	Call Building.

SHEETS.

Black sheets, Pittsburgh; 24 gauge, iron for 1890 and 1891; iron or steel for 1892; 28 gauge steel for subsequent years.

	High.	Low.		High.	Low.
1890....	3.10	2.80	1908....	2.60	2.45
1891....	2.85	2.60	1909....	2.40	2.15
1892....	2.80	2.55	1910....	2.40	2.15
1893....	2.95	2.65	1911....	2.20	1.75
1894....	2.65	2.35	1912....	2.25	1.80
1895....	2.80	2.30	1913....	2.35	1.80
1896....	2.45	2.15	1914....	1.95	1.80
1897....	2.15	1.95	1915....	2.60	1.70
1898....	2.05	1.80	1916....	4.50*	2.60
1899....	3.35	2.00	1917....	9.00*	4.50
1900....	3.25	2.90	1918....	5.00	4.70
1901....	3.85	3.00	1919....	4.70	4.35
1902....	3.10	2.75	1920....	7.00*	4.35
1903....	2.70	2.35	1921....	4.35	2.75
1904....	2.30	2.00	1922....	3.50*	3.00
1905....	2.40	2.15	1923....	4.00	3.35
1906....	2.60	2.30	1924....	3.85	3.40
1907....	2.60	2.45	1925....	3.60	3.05

* Premiums for prompt shipment.

GALVANIZED SHEET PRODUCTION.

Galvanized flat, also formed in black and then galvanized; gross tons.

	Flat.	Formed.	Total.
1913	824,046	57,674	881,720
1914	806,994	58,752	865,746
1915	706,058	50,086	756,144
1916	601,306	58,170	659,476
1917	568,740	51,296	620,036
1918	517,758	54,067	571,825
1919	669,900	62,721	732,621
1920	835,429	64,239	899,668
1921	610,216	49,088	659,304
1922	941,960	73,979	1,015,939
1923	1,055,742	73,992	1,129,734
1924	995,072	69,599	1,064,671

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NESCO

Galvanized, Blue Annealed and Black Sheets • Plates and Tin Plate

SHEETS

BLACK SHEETS.

No. 28 gauge black sheets, Pittsburgh; averaged from daily quotations.

	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	†1920.	1921.	1922.	1923.	1924.	1925.
Jan.	2.40	2.20	1.90	2.32	1.86	1.80	2.60	4.50	5.00	4.70	4.60	4.35	3.00	3.35	3.85	3.59
Feb.	2.40	2.20	1.85	2.35	1.95	1.80	2.60	4.63	5.00	4.70	5.05	4.22	3.00	3.40	3.85	3.50
Mar.	2.40	2.20	1.80	2.35	1.95	1.80	2.73	4.90	5.00	4.58	5.65	3.95	3.00	3.63	3.75	3.45
Apr.	2.40	2.20	1.85	2.35	1.90	1.80	2.89	5.88	5.00	4.35	5.70	3.90	3.12	3.97	3.72	3.37
May	2.40	2.20	1.90	2.35	1.85	1.80	2.90	6.73	5.00	4.35	5.90	4.00	3.15	3.85	3.64	3.28
June	2.35	2.00	1.90	2.29	1.81	1.76	2.90	7.50	5.00	4.35	5.75	3.86	3.15	3.85	3.60	3.11
July	2.25	2.00	1.96	2.25	1.80	1.74	2.90	8.00	5.00	4.35	6.50	3.46	3.15	3.85	3.54	3.10
Aug.	2.20	1.91	2.03	2.20	1.88	1.85	2.90	8.00	5.00	4.35	6.80	2.94	3.27	3.85	3.50	3.10
Sept.	2.15	1.90	2.12	2.12	1.98	1.91	2.91	8.00	5.00	4.35	7.00	2.83	*3.35	3.85	3.50	3.10
Oct.	2.18	1.85	2.20	2.04	1.96	2.03	3.23	7.32	5.00	4.35	7.00	3.00	*3.35	3.80	3.50	3.10
Nov.	2.15	1.84	2.25	1.98	1.88	2.30	3.72	5.06	5.00	*4.35	5.83	2.92	3.35	3.75	3.50	3.22
Dec.	2.18	1.85	2.25	1.85	1.83	2.53	4.40	5.00	4.82	*4.35	4.43	3.00	3.35	3.76	3.55	3.33
Av.	2.29	2.03	2.00	2.20	1.89	1.93	3.06	6.29	4.98	4.43	5.85	3.54	3.19	3.74	3.63	3.27

* Premiums for prompt shipment.

† Independent market; Steel Corporation price remained 4.35.
Average, 1904-1913, 2.28.

KEYSTONE

Rust-Resisting Copper Steel



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resentatives: U. S. Steel Products Company, New York City.

GALVANIZED SHEETS.

No. 28 gauge galvanized sheets, Pittsburgh; averaged from daily quotations.

	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	3.50	3.20	2.90	3.47	2.86	2.80	4.75	6.50	6.25	6.05	6.10	5.70	4.00	4.35	5.00	4.75
Feb.	3.50	3.20	2.86	3.50	2.95	3.09	4.80	6.75	6.25	6.05	6.90	5.45	4.00	4.49	5.00	4.75
Mar.	3.50	3.20	2.80	3.50	2.95	3.40	4.93	7.00	6.25	5.93	7.25	4.98	4.00	5.00	4.90	4.60
Apr.	3.50	3.20	2.87	3.45	2.89	3.40	5.00	7.40	6.25	5.70	7.30	4.85	4.12	5.20	4.89	4.47
May	3.50	3.20	2.94	3.40	2.79	3.60	5.00	9.00	6.25	5.70	7.60	5.00	4.15	5.10	4.75	4.34
June	3.45	3.00	2.95	3.38	2.75	4.80	4.80	9.75	6.25	5.70	7.40	4.80	4.15	5.00	4.75	4.19
July	3.30	3.00	3.01	3.31	2.75	4.65	4.40	10.50	6.25	5.70	7.90	4.40	4.15	5.00	4.68	4.18
Aug.	3.25	2.93	3.12	3.25	2.87	4.40	4.20	10.35	6.25	5.70	8.15	3.94	4.27	5.00	4.60	4.20
Sept.	3.20	2.90	3.25	3.17	2.97	3.68	4.20	9.75	6.25	5.70	8.50	3.83	4.35	5.00	4.60	4.20
Oct.	3.20	2.87	3.35	3.08	2.96	3.57	4.50	8.90	6.25	5.70	8.50	4.00	4.35	5.00	4.60	4.24
Nov.	3.18	2.84	3.40	2.98	2.88	4.07	5.34	6.37	6.25	5.70	7.30	3.92	4.35	4.95	4.57	4.50
Dec.	3.20	2.85	3.40	2.85	2.80	4.75	6.27	6.25	6.13	5.70	5.80	4.00	4.35	4.96	4.67	4.58
Av.	3.37	3.03	3.07	3.28	2.87	3.85	4.85	8.21	6.24	5.78	7.39	4.57	4.19	4.92	4.75	4.42

* Premiums for prompt shipment.

† Independent market; Steel Corporation price remained 5.70.

Average, 1904-1913, 3.33; average of zinc, St. Louis, 5.64.

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SHEETS—CORRUGATED ROOFING, PAINTED.

Averaged from daily quotations; 28 gauge, f.o.b. mill, Pittsburgh.

	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	1.55	1.33	2.52	2.06	2.00	2.80	4.70	5.30	5.00	4.90	4.65	3.30	3.65	4.15	3.89
Feb.	1.55	1.33	2.55	2.15	2.00	2.80	4.83	5.30	5.00	5.35	4.52	3.30	3.70	4.15	3.80
Mar.	1.55	1.33	2.55	2.15	2.00	2.93	5.10	5.30	4.88	5.95	4.25	3.30	3.93	4.05	3.75
Apr.	1.55	1.34	2.55	2.10	2.00	3.09	6.08	5.30	4.65	6.00	4.20	3.42	4.27	4.02	3.67
May	1.55	*1.35	2.50	2.05	2.00	3.10	6.93	5.30	4.65	6.20	4.30	3.45	4.15	3.94	3.58
June	1.40	†2.10	2.45	2.01	1.94	3.10	7.70	5.30	4.65	6.05	4.16	3.45	4.15	3.90	3.41
July	1.40	2.16	2.45	2.00	1.90	3.10	8.20	5.30	4.65	6.80	3.76	3.45	4.15	3.84	3.40
Aug.	1.34	2.20	2.40	2.08	2.00	3.10	8.20	5.30	4.65	7.10	3.24	3.57	4.15	3.80	3.40
Sept.	1.33	2.32	2.30	2.18	2.06	3.11	8.20	5.30	4.65	7.30	3.13	†3.65	4.15	3.80	3.40
Oct.	1.30	2.35	2.22	2.16	2.22	3.43	7.52	5.30	4.65	7.30	3.30	†3.65	4.10	3.80	3.40
Nov.	1.29	2.43	2.15	2.08	2.48	3.92	5.29	5.30	4.65	6.13	3.22	3.65	4.05	3.80	3.52
Dec.	1.30	2.45	2.05	2.03	2.70	4.60	5.30	5.12	†4.69	4.73	3.30	3.65	4.06	3.80	3.63

Av. 1.43 41.46 2.39 2.09 2.11 3.26 6.50 5.29 4.73 6.15 3.84 3.49 4.04 3.93 3.57

* Quotations per square end. † Quotations per pound begin; April 19, 1912, American Sheet & Tin Plate Company began selling exclusively per pound at following differentials over flat sheets: forming painted or galvanized, 5c per 100 lbs.; painting gauges 12-18, 5c; 19-24, 10c; 25-28, 15c. This basis adopted immediately by some independents, within a few weeks by others. November 21, 1917, Institute announced set differentials for painting, approved by Government, 15c, 20c, 25c, respectively. (a) Per square. ‡ Premiums for early deliveries. § Independent market; Steel Corporation price remained 4.65.



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THE REEVES MFG. CO.
Dover, Ohio

SHEETS—CORRUGATED ROOFING, GALVANIZED.

Averaged from daily quotations, 28 gauge, f.o.b. mill, Pittsburgh.

	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	\$1920.	1921.	1922.	1923.	1924.	1925.
Jan.	2.75	2.46	3.52	2.91	2.85	4.80	6.55	6.30	6.10	6.15	5.75	4.05	4.40	5.05	4.80
Feb.	2.75	2.47	3.55	3.00	3.14	4.85	6.80	6.30	6.10	6.95	5.50	4.05	4.54	5.05	4.80
Mar.	2.75	2.47	3.55	3.00	3.45	4.98	7.05	6.30	5.98	7.30	5.03	4.05	5.05	4.95	4.65
Apr.	2.75	2.50	3.50	2.94	3.45	5.05	7.40	6.30	5.75	7.35	4.90	4.17	5.25	4.94	4.52
May	2.75	2.55	3.45	2.84	3.65	5.05	9.05	6.30	5.75	7.65	5.05	4.20	5.15	4.80	4.39
June	2.55	†3.05	3.40	2.80	4.85	4.85	9.80	6.30	5.75	7.45	4.85	4.20	5.05	4.80	4.24
July	2.55	3.06	3.35	2.80	4.70	4.45	10.55	6.30	5.75	7.95	4.45	4.20	5.05	4.73	4.23
Aug.	2.49	3.17	3.30	2.92	4.45	4.25	10.40	6.30	5.75	8.20	3.99	4.32	5.05	4.65	4.25
Sept.	2.46	3.30	3.20	3.02	3.73	4.25	9.80	6.30	5.75	8.55	3.88	4.40	5.05	4.65	4.25
Oct.	2.44	3.40	3.10	3.01	3.62	4.55	8.95	6.30	5.75	8.55	4.05	4.40	5.05	4.65	4.29
Nov.	2.41	3.45	3.00	2.93	4.12	5.39	6.42	6.30	5.75	7.35	3.97	4.40	5.00	4.62	4.55
Dec.	2.42	3.45	2.92	2.85	4.80	6.32	6.30	6.18	‡5.75	5.85	4.05	4.40	5.01	4.72	4.63
Av.	2.59	‡2.66	3.32	2.92	3.90	4.90	8.26	6.29	5.83	7.44	4.62	4.24	4.97	4.80	4.47

*Quotations per square end. † Quotations per pound begin; April 19, 1912, American Sheet & Tin Plate Company began selling exclusively per pound at 5c per 100 lbs. (for forming) over flat sheets.
 (a) Per square. ‡ Premiums for early deliveries. § Independent market; Steel Corporation price remained 5.75.

ALLEGHENY STEEL COMPANY

PITTSBURGH, PA.

Works - - - Brackenridge, Pa.

SHEETS

Special Pickled Grades for
Automobile and Metallic Furniture
Construction

High Grade Electrical for
Transformers, Dynamos and Motors

Allegheny Iron and Steel Sheets

Black and Blue Annealed

"ALLEGHENY" LAP WELDED STEEL
BOILER TUBES

STEEL CASTINGS

SALES AGENTS:

J. Allan Armstrong, General Motors Bldg., Detroit
R. M. Allen, 855 Peoples Gas Bldg., Chicago
Chandler & Floyd, 501 Fifth Ave., New York

AUTOMOBILE SHEETS.

Auto body stock, 22 gauge, average for various deliveries compiled from private sources to May 1, 1921, from American Metal Market quotations thereafter.

	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
January	2.65	3.45	4.45	5.95	5.60	5.45	5.20	4.35	4.90	5.35	4.75
February	2.65	3.45	4.45	5.95	5.60	5.60	5.20	4.35	5.00	5.35	4.60
March	2.65	3.70	4.45	5.95	5.43	5.80	5.20	4.35	5.00	5.35	4.47
April	2.65	3.70	5.35	5.95	5.20	6.15	5.20	4.40	5.35	5.27	4.40
May	2.65	3.70	6.25	5.95	5.20	6.25	5.20	4.45	5.35	5.10	4.40
June	2.65	3.70	7.15	5.95	5.20	6.20	4.95	4.50	5.35	5.10	4.25
July	2.65	3.70	7.60	5.95	5.20	6.80	4.70	4.60	5.35	5.00	4.20
August	2.65	3.70	7.60	5.95	5.20	6.95	4.65	4.75	5.35	4.89	4.25
September	2.70	3.70	7.60	5.95	5.20	7.00	4.45	4.85	5.35	4.70	4.25
October	2.80	3.85	7.70	5.95	5.20	7.00	4.55	4.85	5.35	4.60	4.32
November	3.00	4.10	6.00	5.95	5.20	6.60	4.35	4.85	5.30	4.62	4.43
December	3.25	4.45	5.95	5.75	5.20	5.25	4.35	4.85	5.30	4.75	4.50
Average	2.75	3.77	6.21	5.93	5.29	6.25	4.83	4.60	5.25	5.01	4.40

SENECA SHEETS



**Metal Furniture
Sheets**

SENECA IRON &



**Automobile
Sheets**



Japanning Sheets
for Stoves and Ranges



**Sheets
for Steel Barrels**

STEEL CO. BUFFALO, N. Y.

Chicago Office: 414 N. Main St.
Detroit Office: Cor. E. Main St.
New York Office: West 40th St.

**CONTINENTAL
CAN
COMPANY
INC.**

TIN PLATE PRODUCTION.

Col. Ayer's reports through 1896; American Iron and Steel Association reports for subsequent years; separate tin and terne plate statistics not available prior to 1906. Gross tons throughout.

Tin and Terne Plate.		Tin and Terne Plate.	
1891	999	1899	360,875
1892	18,803	1900	302,665
1893	55,182	1901	399,291
1894	74,260	1902	360,000
1895	113,666	1903	480,000
1896	160,362	1904	458,000
1897	256,518	1905	413,500
1898	326,915		
Terne Plate.		Tin Plate.	Total.
1906	86,325	491,238	577,563
1907	69,842	444,933	514,775
1908	68,830	468,257	537,087
1909	85,237	526,722	611,956
1910	75,082	647,688	722,770
1911	70,733	713,227	783,960
1912	85,445	877,526	962,971
1913	61,136	762,583	823,719
1914	65,266	865,975	931,241
1915	72,978	982,958	1,055,936
1916	95,615	1,139,386	1,235,001
1917	68,702	1,443,444	1,512,146
1918	38,114	1,435,825	1,473,939
1919	76,274	1,074,624	1,150,898
1920	61,707	1,374,979	1,436,686
1921	45,287	747,911	793,198
1922	79,123	1,208,772	1,287,895
1923	92,458	1,414,403	1,506,861
1924	90,426	1,328,228	1,418,654
1925*	100,000	1,550,000	1,650,000

* Estimated.

Long ternes included under terne plate: 1923, 47,663 tons; 1924, 48,208 tons; not separately ascertained previously.

HAGAN ALLIS

CONTINUOUS PAIR FURNACE

(Patented)

The Hagan Allis Continuous Pair Furnace is the most successful and economical heating equipment as yet developed for the continuous heating of bars.

Every bar is subject to the same heating conditions, thus insuring uniformly heated pairs.

Scaling is kept to an absolute minimum because all air entering the furnace while heater is pulling pairs is drawn directly to the stack without passing over the heated bars.

Labor costs per ton are reduced to a minimum figure since no manipulation of bars in the furnace is necessary.

Design of furnace and method of applying heat insures minimum fuel costs per ton of steel heated.

There are over twenty-one (21) steel mills using some 140 of these furnaces today in the United States and foreign countries.

Users report an increase in output of salable sheets up to 100 tons per mill per year over the output of the standard hearth type of furnace.

A Furnace and a Fuel for Every Industrial Purpose

Coal Oil Gas Electricity

Write for Bulletin SM 202

GEORGE J. HAGAN COMPANY
Chamber of Commerce Bldg.
PITTSBURGH, PA.

DETROIT

CHICAGO

SAN FRANCISCO

TIN PLATE MILLS AND PRODUCTION.

Operative tin plate mills at end of year:

Corporation. Independent. Total.

1902	264	71	335
1904	242	83	325
1906	255	96	351
1908	242	86	328
1910	235	134	369
1912	235	149	384
1914	202	176	378
1916	196	241	437
1917	240	248	488
1918	240	260	500
1919	245	300	545
1920*	264	303	567

*No material change since 1920. Corporation count includes most of its mills making black plate specialties. Independent count is only of tin plate plants, and is exclusive of 40 "tin" mills in sheet plants. January 1, 1926, 20 independent mills in four plants at Harrisburg, Pa., Waynesburg, Pa., and Marietta, O., and 24 Corporation mills, at New Kensington, Wheeling and Cleveland, had been idle for more than a year.

Production by United States Steel Corporation and independents, tin and terne plate, gross tons.

	Corporation.	Independents.	Per cent. of Corp.
1908	386,718	150,369	72.0
1909	378,767	233,192	61.9
1910	440,694	282,076	61.0
1911	476,036	307,924	60.7
1912	581,346	381,625	60.4
1913	483,002	340,717	58.6
1914	498,863	432,378	53.6
1915	569,879	486,057	54.0
1916	620,732	614,268	50.3
1917	735,571	776,575	48.6
1918	711,985	761,954	48.3
1919	557,468	593,430	48.4
1920	648,148	788,538	45.1
1921	387,661	405,537	48.9
1922	560,454	727,441	43.5
1923	754,414	752,448	50.0
1924	642,477	776,177	45.3
1925 (est.)..	800,000	850,000	48.5

McKeesport Tin Plate Company

MAIN OFFICE AND WORKS

McKEESPORT, PA.

Sales Offices:

257 Broadway, New York

**COKE TIN PLATE
BLACK PLATE**

**Forty-Four
Tin Mills**

Annual capacity

4,400,000 base boxes

SHIPPING ADDRESS

McKEESPORT, P. & L E. R. R.

TIN PLATE PRICE CHANGES.

The more important changes and season announcements; 100-lb. tin plate, Pittsburgh; pig tin New York; sheet bars, Pittsburgh.

Tin Plates. Tin. Sheet Bars			
Jan. 6, 1899	3.00	20.75	17.50
Aug. 6, 1899	4.65	31.25	36.00
Sept. 24, 1900	4.00	28.62½	22.00
Nov. 3, 1902	3.60*	26.75	31.75
Jan. 25, 1904	3.45*	28.20	24.00
July 25, 1904 .. (a)	3.30*	27.10	24.00
Nov. 15, 1904	3.45*	29.15	22.50
Oct. 3, 1905	3.35*	32.60	26.00
Oct. 25, 1906	3.90*	43.25	30.00
Jan. 6, 1908	3.70*	27.35	29.00
Mar. 10, 1909	3.40	28.70	25.00
Nov. 12, 1909 ..	3.60	30.50	28.50
Feb. 3, 1911	3.70	41.40	24.00
Oct. 16, 1911	3.40	41.70	20.00
July 9, 1912	3.50	44.40	22.00(b)
Sept. 4, 1912	3.60	47.20	23.75(b)
Nov. 3, 1913	3.40	39.90	21.50
Dec. 3, 1914	3.20	33.50	19.50
Nov. 11, 1915 ...	3.60	39.00	26.50(b)
Oct. 12, 1916 ...	5.75	42.25	45.00
Mar. 31, 1917... (b)	7.50	54.50	70.00
Nov. 5, 1917	7.75	68.00	51.00(c)
Dec. 13, 1918....	7.35	72.50	47.00
Mar. 21, 1919	7.00	71.50	42.00
Nov. 15, 1919	7.00	54.25	42.00
Dec. 2, 1920	7.00	34.00	47.00
Apr. 13, 1921 ...	6.25	29.25	39.00
June 14, 1921 ...	5.75	29.37½	39.00
July 29, 1921	5.25	26.62½	32.00
Nov. 3, 1921	4.75	28.00	30.00
Nov. 23, 1922	4.75	36.00	36.50
Feb. 26, 1923	4.95	44.25	40.00
Nov. 1, 1923	5.50	41.87½	42.50
Nov. 25, 1924 ...	5.50	54.37½	37.00
Nov. 19, 1925 ...	5.50	63.50	35.00

* Subject to 5-cent rebate. (a) Cash discount changed from 1 to 2 per cent. (b) Premium for open-hearth. (c) Government price.

WASHINGTON TIN PLATE COMPANY

Manufacturers of

“ QUALITY COKES ”

**TIN PLATES
OF CHARACTER**

Annual Capacity
600,000 BASE BOXES

Main Office and Works
WASHINGTON, PA.

TIN PLATE PRICES.

Average yearly price of J. B. grade coke tin plates, 14x20 I. C., 108 pounds, delivered at New York:

1880	\$6.75	1885	\$4.40
1881	5.45	1886	4.30
1882	5.30	1887	4.60
1883	5.10	1888	4.55
1884	4.70	1889	4.55

Imported Bessemer cokes 14x20, 108 lbs.

1890	4.80	1893	5.37
1891	5.34	1894	4.89
1892	5.30	1895	3.87

American Bessemer cokes, 14x20, 107 lbs.

1896	3.63	1906	4.04
1897	3.26	1907	4.25
1898	2.99	1908	4.05
1899	4.41	1909	3.83
1900	4.82	1910	3.93
1901	4.35	1911	3.98
1902	4.28	1912	3.78
1903	4.09	1913	3.80
1904	3.76	1914	3.62
1905	3.85	1915	3.53

1916	5.68
1917	*8.20
1918	8.13
1919	7.53
1920	†8.73
1921	6.44
1922	5.25
1923	5.87
1924	6.03
1925	6.03

* Premiums \$2 to \$8, June to September.

† Early deliveries.

TRUMBULL STEEL CO.

Controls its product from the earth to the shipping platform. Its RESEARCH DEPARTMENT, which is at your service, determines the best processes to meet your most exacting requirements in

STRIP STEEL
HOT COLD

COKE TIN PLATE
TIN MILL BLACK PLATE

SHEETS
BLUE ANNEALED, GALVANIZED
BLACK, ELECTRICAL AND
LONG TERNE

MILLS AND GENERAL OFFICES
WARREN, OHIO

DISTRICT OFFICES

New York
Detroit
Nashville
Denver
San Francisco

Chicago
Cleveland
Memphis
Salt Lake City
Los Angeles
Toronto, Canada

Philadelphia
St. Louis
Dallas
El Paso
Seattle

TIN PLATE.—Gross tons.

Exports of United States:

	1921.	1922.	1923.	1924.	1925.
Jan.	34,545	12,061	5,898	25,443	19,416
Feb.	26,375	7,304	5,609	21,854	8,051
Mar.	5,732	6,713	7,028	12,902	14,425
April	3,406	4,663	13,479	5,924	14,389
May	1,592	6,291	13,328	21,981	10,214
June	2,727	8,160	6,966	10,231	11,284
July	2,924	4,039	13,029	7,817	10,918
Aug.	2,647	4,093	5,995	6,656	12,402
Sept.	4,724	6,356	9,094	7,735	12,245
Oct.	5,504	6,324	11,784	13,561	14,710
Nov.	8,382	3,891	14,679	14,327	20,328
Dec.	9,156	6,513	17,609	12,566	13,001
Total	107,714	76,633	124,499	160,997	161,383

Calendar year exports of United States:

1901..	439	1908..	11,878	1915..	154,642
1902..	1,566	1909..	9,327	1916..	227,391
1903..	292	1910..	12,445	1917..	232,799
1904..	7,898	1911..	61,381	1918..	258,538
1905..	7,941	1912..	81,694	1919..	204,521
1906..	12,082	1913..	57,812	1920..	226,410
1907..	10,203	1914..	59,549	1921..	107,714

Calendar year imports of United States:

1871..	82,969	1888..	298,238	1905..	65,740
1872..	85,629	1889..	331,311	1906..	56,983
1873..	97,177	1890..	329,435	1907..	57,773
1874..	79,778	1891..	327,882	1908..	58,490
1875..	91,054	1892..	268,472	1909..	62,593
1876..	89,946	1893..	253,155	1910..	66,640
1877..	112,479	1894..	215,068	1911..	14,099
1878..	107,864	1895..	219,545	1912..	2,053
1879..	154,250	1896..	119,171	1913..	20,680
1880..	158,049	1897..	83,851	1914..	15,411
1881..	183,005	1898..	66,775	1915..	2,350
1882..	213,987	1899..	58,915	1916..	1,008
1883..	221,233	1900..	60,386	1917..	124
1884..	216,181	1901..	77,395	1918..	32
1885..	228,596	1902..	60,115	1919..	242
1886..	257,822	1903..	47,360	1920..	400
1887..	283,836	1904..	70,652	1921..	450

American Can

CONTAINERS OF TIN PLATE - BLACK IRON - GALVANIZED IRON - FIBRE



Cans of all kinds

— *Metal and fibre,
plain and decorated*

Also Galvanized Ware, Re-
tinned Ware, Sheet Metal
Specialties, Decorated Sheets.

American Can Company

General Offices:

120 BROADWAY, NEW YORK

District Offices:

NEW YORK

CHICAGO

SAN FRANCISCO

PORTLAND, ORE.

HAMILTON, ONT.

Local Sales Offices:

Atlanta

Baltimore

Buffalo

Cincinnati

Cleveland

Dallas

Denver

Detroit

Indianapolis

Kansas City

Los Angeles

Milwaukee

Montreal

New Orleans

Philadelphia

Pittsburgh

Richmond

Rochester

Seattle

St. Louis

St. Paul

Toledo

Vancouver

Winnipeg

TIN CAN PRICE CHANGES.

Schedule of price changes of the American Can Company applying to plain coke sanitary cans. All prices are f.o.b. factory.

Sanitary Cans.

Published Date.	1's.	2's.	3's.	10's.
Jan. 6, 1913 ...	11.00	15.00	20.00	45.00
Jan. 5, 1914 ...	10.75	14.50	19.50	44.00
Jan. 4, 1915 ...	10.50	14.00	18.75	42.50
Jan. 2, 1916 ...	11.15	15.00	20.25	45.50
Apr. 20, 1916 ..	12.25	16.50	22.50	50.00
June 1, 1916 ..	13.00	17.50	24.00	53.00
July 1, 1916 ...	13.50	18.75	25.25	56.00
Sept. 26, 1916 .	14.50	20.25	27.25	60.00
Dec. 12, 1916 ..	Prices Withdrawn			—
Jan. 2, 1917 ...	17.25	24.25	33.25	71.50
Apr. 16, 1917 ..	18.25	25.75	35.25	75.50
Jan. 2, 1918 ...	19.50	27.50	37.50	79.50
July 1, 1918 ..	20.00	28.00	38.25	82.00
Oct. 10, 1918 ..	Prices Withdrawn			—
Jan. 2, 1919 ..	19.00	26.75	36.25	77.00
Sept. 26, 1919 .	Prices Withdrawn			—
Jan. 5, 1920 ..	19.00	26.75	36.25	77.00
May 20, 1920 ..	Prices Withdrawn			—
Sept. 11, 1920 .	20.25	28.50	38.50	83.00
Jan. 18, 1921 .	20.00	28.00	38.00	81.00
Apr. 20, 1921 ..	19.50	27.00	36.50	79.00
Oct. 3, 1921 ...	16.50	22.75	31.00	66.50
Nov. 28, 1921 .	15.75	21.50	28.75	62.50
Jan. 11, 1922 .	15.00	21.00	28.00	62.50
Jan. 11, 1924 .	16.50	23.25	31.00	68.25
1925—All can prices remained unchanged from schedule announced January 11, 1924.				
Jan. 2, 1926 ..	15.75	22.25	30.00	66.25

COLD DRAWN STEEL



**SCREW STEEL
OPEN HEARTH
AND ALLOYS
TO ALL S.A.E. ANALYSES
ROUNDS, SQUARES,
HEXAGONS, FLATS**



**THE FITZSIMONS
COMPANY**

"A good concern to do business with"

YOUNGSTOWN, O.

COLD FINISHED STEEL BARS.

Formerly called "shafting" and sold by discount off list; delivered in base territory through March 15, 1915, f.o.b. Pittsburgh thereafter; difference, about two points; in August, 1919, sale began at pound price subject to list of extras.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. ..	67	58½	64½	68	46¾	20	17	21	3.60	3.60	1.95	2.54	3.00	2.80
Feb. ..	68	58	64	68	43½	20	17	21	3.85	3.45	1.90	2.71	3.00	2.80
Mar. ..	67	58	64	69	28½	18½	17	23¾	4.50	3.06	1.88	2.83	3.00	2.70
Apr. ..	67	58	65	70	21¼	15	17	28	4.25	3.10	1.80	3.00	3.00	2.70
May ..	67	59	66	70	15	15	17	28	4.50	3.10	2.03	3.25	2.97	2.70
June .	65	60	66	69½	16%	11	17	28	4.60	3.00	2.10	3.25	2.90	2.60
July ..	65	61	68	66½	20	6	17	28	4.50	2.70	2.10	3.25	2.84	2.50
Aug. ..	64	62	67	65½	20	5	17	28	4.25	2.47	2.20	3.25	2.80	2.50
Sept. .	62	62	66	63¾	20	10	17	3.60	4.25	2.35	2.50	3.25	2.75	2.50
Oct. .	60	62	66	60	20	10	17	3.60	4.17	2.35	2.50	3.15	2.70	2.50
Nov. .	60	63	67	55	20	15¾	17	3.60	4.00	2.15	2.50	2.90	2.70	2.50
Dec. .	60	64	68	50½	20	17	19¾	3.60	3.60	2.15	2.50	3.00	2.79	2.50
Av. ...	64¼	60½	66	65*	24¼	13½	17¼	3.68	4.17	2.79	2.16	3.03	2.87	2.62

* Basis f.o.b. Pittsburgh for year.

RIVETS.

Large structural and ship rivets, Pittsburgh, averaged from daily quotations; cone head boiler rivets, 10 higher until Sept. 1, 1923, new card with single base price.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
January	1.45	2.20	1.65	1.35	2.60	4.25	4.65	4.30	4.10	4.10	2.23	3.00	2.85	2.60
February ...	1.40	2.20	1.65	1.35	2.80	4.25	4.65	4.25	4.35	3.93	2.16	3.00	2.75	2.60
March	1.40	2.10	1.65	1.35	3.10	4.55	4.65	4.15	4.40	3.79	2.05	3.17	2.75	2.60
April	1.45	2.10	1.65	1.35	3.40	4.75	4.65	3.70	4.50	3.57	2.08	3.25	2.65	2.58
May	1.50	2.10	1.60	1.40	3.85	4.75	4.57	3.70	4.50	3.17	2.22	3.25	2.60	2.46
June	1.55	2.00	1.57	1.50	4.00	4.98	4.40	3.70	4.50	2.90	2.25	3.25	2.60	2.40
July	1.60	2.00	1.50	1.50	4.00	5.25	4.40	3.70	4.50	2.75	2.50	3.10	2.60	2.40
August	1.74	1.90	1.53	1.53	4.00	5.25	4.40	3.90	4.50	2.49	2.65	3.00	2.60	2.40
September ..	1.90	1.90	1.52	1.60	4.00	5.25	4.40	3.90	4.50	2.30	3.00	2.95	2.60	2.40
October	1.97	1.85	1.47	1.72	4.00	5.25	4.40	3.90	4.70	2.25	3.00	2.75	2.60	2.44
November ..	2.06	1.78	1.42	2.30	4.10	4.91	4.40	3.90	4.50	2.25	3.00	2.70	2.60	2.60
December ...	2.17	1.72	1.35	2.48	4.25	4.65	4.40	3.95	4.30	2.25	3.00	2.90	2.60	2.60
Average ...	1.68	1.99	1.55	1.62	3.68	4.84	4.50	3.92	4.45	2.98	2.51	3.03	2.65	2.51

RAILROAD SPIKES.

Standard railroad spikes, Pittsburgh, averaged from daily quotations.

	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	1.75	1.55	1.40	1.85	1.45	1.35	2.25	3.40	3.90	3.68	3.50	3.65	2.20	2.75	3.05	2.90
Feb.	1.72	1.55	1.38	1.85	1.45	1.35	2.35	3.40	3.90	3.65	3.60	3.65	2.15	2.90	3.05	2.87
Mar.	1.70	1.55	1.35	1.85	1.45	1.35	2.55	3.50	3.90	3.51	4.00	3.35	2.10	3.15	3.00	2.80
Apr.	1.65	1.60	1.37	1.82	1.42	1.35	2.65	3.75	3.90	3.35	4.00	3.35	2.15	3.15	2.98	2.80
May	1.62	1.60	1.41	1.80	1.40	1.35	2.65	3.85	3.90	3.35	4.00	3.30	2.25	3.15	2.90	2.80
June	1.56	1.55	1.45	1.74	1.40	1.38	2.65	4.00	3.90	3.35	4.00	3.25	2.25	3.15	2.89	2.80
July	1.55	1.53	1.55	1.70	1.38	1.40	2.65	4.80	3.90	3.35	4.00	3.00	2.25	3.15	2.80	2.80
Aug.	1.55	1.50	1.65	1.70	1.43	1.44	2.65	5.00	3.90	3.35	4.10	2.62	2.45	3.15	2.80	2.80
Sept.	1.55	1.47	1.77	1.68	1.45	1.60	2.65	5.00	3.90	3.35	4.10	2.40	2.75	3.15	2.80	2.80
Oct.	1.55	1.45	1.80	1.60	1.45	1.61	2.65	5.00	3.90	3.35	4.00	2.32	2.75	3.15	2.70	2.80
Nov.	1.55	1.40	1.83	1.55	1.39	1.88	2.75	5.00	3.90	3.35	4.00	2.25	2.75	3.10	2.75	2.80
Dec.	1.55	1.40	1.85	1.50	1.35	2.10	3.35	4.75	3.78	3.35	3.70	2.25	2.75	3.00	2.85	2.80
Av.	1.61	1.51	1.57	1.72	1.42	1.51	2.65	4.29	3.89	3.42	3.92	2.95	2.40	3.08	2.88	2.81

IRON AND STEEL CAPACITY.

Reported as of January 1, 1925, to the American Iron and Steel Institute by the manufacturers. Actual or potential capacity probably about 5% less in ingots, and about 10% less in pig iron. Capacity in gross tons.

Coke blast furnaces (401)	52,896,495
Charcoal blast furnaces (24)	538,200
Total blast furnaces (425)	53,434,695
Coke furnaces building (4)	581,500
Charcoal furnaces building (2) ..	45,000
Total prospective (431)	54,061,195
Basic open hearth ingots	44,856,790
Basic open-hearth castings	870,400
Total basic open-hearth	45,727,190
Acid open-hearth ingots	1,196,450
Acid open-hearth castings	1,037,610
Total acid open-hearth	2,234,060
Total open-hearth ingots	46,053,240
Total open-hearth castings	1,908,010
Total open-hearth	47,961,250
Standard Bessemer ingots	11,406,750
Standard Bessemer castings	250
Other Bessemer ingots	300
Other Bessemer castings	217,205
Total Bessemer ingots	11,407,050
Total Bessemer castings	217,455
Total Bessemer	11,624,505
Crucible ingots	157,630
Crucible castings	8,460
Total crucible	166,090
Electric ingots	820,500
Electric castings	563,660
Total electric	1,384,160
Miscellaneous castings	800
Grand total ingots	58,438,420
Grand total castings	2,698,385
Total steel ingots and castings...	61,136,805

Bessemer vessels used for duplexing not included with Bessemer. Open-hearth furnaces used for preparing stock for electric furnaces not included with open-hearth. Electric does not include furnaces for melting alloys or making pig iron. Rolled steel production runs about 75% of ingot production.

TOTAL PRODUCTION.

Gross tons, except that nails are in kegs of 100 pounds.

	1924.	Total through 1924.
Iron ore	54,267,419	1,625,000,000
Pig iron	31,405,790	857,000,000
O. H. steel*	31,577,350	471,700,000
Bessemer steel* ..	5,899,590	283,600,000
Total steel*	37,931,939	763,500,000
Iron rails .....	.....	10,700,000
Bessemer steel rails	16,069	64,750,000
Open-hearth rails..	2,307,533	33,950,000
All steel rails†	2,323,602	98,700,000
Wire rods	2,522,545	65,200,000
Structural shapes..	3,283,708	62,450,000
Cut nails (kegs) ...	741,668	213,000,000
Wire nails (kegs)..	15,101,318	389,000,000
Tin plate	1,418,654	23,200,000

* Ingots and castings.

† Excluding rerolled rails since 1911.

Estimates for 1925.

Iron ore	62,079,000
Pig iron	36,650,000
Steel ingots	44,200,000
Steel castings	1,300,000
Steel ingots and castings	45,500,000
Finished rolled steel	33,000,000
Finished rolled iron	850,000

AMERICAN STEEL FOUNDRIES

CAR AND LOCOMOTIVE
CASTINGS



STEEL CASTINGS
OF EVERY DESCRIPTION FOR
ROLLING MILLS
AND
STEEL WORKS

NEW YORK CHICAGO PITTSBURG

PRODUCTION OF STEEL INGOTS and CASTINGS—Gross Tons.

	Basic, O. H.	Acid. O. H.	Total O. H.	Bessemer.	Crucible.	Uncl.	Total steel.
1870	.....	.....	1,339	37,500	.....	29,911	68,750
1880	.....	.....	100,851	1,074,262	64,664	7,558	1,247,335
1890	.....	.....	513,232	3,688,871	71,175	3,793	4,277,071
1895	.....	.....	1,137,182	4,909,128	67,666	858	6,114,834
1900	2,545,091	853,044	3,398,135	6,684,770	100,562	4,862	10,188,329
1905	7,815,728	1,155,648	8,971,376	10,941,375	102,233	8,963	20,023,947
1910	15,292,329	1,212,180	16,504,509	9,412,772	122,303	Electric	26,094,919
1912	19,641,502	1,139,221	20,780,723	10,327,901	121,517	18,309	31,251,303
1913	20,344,626	1,255,305	21,599,931	9,545,706	121,226	30,180	31,300,874
1914	16,271,129	903,555	17,174,684	6,220,846	89,869	24,009	23,513,030
1915	22,308,725	1,370,377	23,679,102	8,287,213	113,782	69,412	32,151,036
1916	29,616,658	1,798,769	31,415,427	11,059,039	129,692	168,918	42,773,680
1917	32,087,507	2,061,386	34,148,893	10,479,960	126,716	305,038	45,060,607
1918	32,476,571	1,982,820	34,459,391	9,376,236	115,112	511,364	44,462,432
1919	25,719,312	1,220,382	26,948,694	7,271,562	63,572	384,452	34,671,232
1920	31,375,723	1,296,172	32,671,895	8,883,087	72,265	502,152	42,132,934
1921	15,082,564	507,238	15,589,802	4,015,938	7,613	169,499	19,783,797
1922	28,387,171	921,812	29,308,983	5,919,298	28,606	346,039	35,602,926
1923	34,665,021	1,234,636	35,899,657	8,484,088	44,079	515,872	44,943,696
1924	30,719,523	857,827	31,577,350	5,899,590	22,473	432,526	37,931,939

PRODUCTION OF STEEL INGOTS—Gross Tons.

	Basic O. H.	Acid O. H.	Total O. H.	Bessemer.	Crucible.	Uncl.	Total.
1900	2,502,447	718,197	3,220,644	6,678,303	96,573	6	9,095,526
1905	7,609,569	835,267	8,444,836	10,919,272	96,500	2,572	19,463,180
1907	9,912,839	890,372	10,803,211	11,634,276	121,001	989	22,559,477
1908	6,985,420	539,532	7,524,952	6,096,196	55,360	Electric	13,677,027
1909	13,111,467	781,429	13,892,896	9,296,969	94,672	13,456	23,298,779
1910	14,858,353	782,805	15,641,158	9,354,437	107,671	50,821	25,154,087
1911	14,419,306	608,153	15,027,459	7,890,753	83,623	27,227	23,029,479
1912	19,197,504	712,371	19,909,875	10,259,151	100,967	14,147	30,284,682
1913	19,884,465	805,250	20,689,715	9,465,200	103,655	20,973	30,280,130
1914	15,936,085	633,382	16,570,367	6,154,964	78,683	15,458	22,819,784
1915	21,975,622	968,148	22,943,770	8,194,737	99,026	46,348	31,284,212
1916	29,011,146	1,227,832	30,238,978	10,916,248	120,341	126,048	41,401,917
1917	31,528,939	1,406,798	32,935,737	10,320,688	122,882	239,632	43,619,200
1918	31,970,691	1,347,870	33,318,561	9,215,392	113,782	403,068	43,051,022
1919	25,405,347	780,827	26,186,174	7,172,743	62,563	272,942	33,694,795
1920	30,926,393	759,102	31,685,495	8,778,107	70,536	346,956	40,881,392
1921	14,864,607	290,750	15,155,357	3,977,129	6,877	84,404	19,224,084
1922	27,961,190	517,045	28,478,235	5,871,565	27,561	191,057	34,568,418
1923	34,093,711	653,337	34,747,048	8,416,576	42,127	279,014	43,485,665
1924	30,263,005	454,926	30,717,931	5,846,153	21,096	225,977	36,811,157

PRODUCTION OF STEEL CASTINGS—Gross Tons.

	Basic O. H.	Acid O. H.	Total O. H.	Bessemer.	Crucible.	Electric.	Uncl.	Total.
1900		42,644	134,847	177,491	6,467	3,989	.....	4,856
1905		206,159	320,381	526,540	22,103	5,733	.....	6,391
1908		155,005	156,772	311,777	20,559	8,271	.....	5,613
1909		306,005	295,035	601,040	33,814	12,683	306	8,399
1910		433,976	429,375	863,351	58,335	14,632	1,320	3,194
1911		266,626	304,565	571,191	57,101	14,030	1,878	2,427
1912		443,998	426,850	870,848	68,750	20,550	4,162	2,311
1913		460,161	450,055	910,216	80,506	17,571	9,207	3,244
1914		334,144	270,173	604,317	65,882	11,186	8,551	3,310
1915		333,103	402,229	735,332	92,476	14,756	23,064	1,196
1916		605,512	570,937	1,176,449	142,791	9,351	42,870	302
1917		558,568	654,588	1,213,156	159,272	3,834	64,911	234
1918		505,880	634,950	1,140,830	160,844	1,330	108,296	110
1919		313,965	448,555	762,520	98,819	1,009	111,510	2,579
1920		449,330	537,070	986,400	104,980	1,729	155,196	3,237
1921		217,957	216,488	434,445	38,809	736	85,095	628
1922		425,981	404,767	830,748	47,733	1,045	154,982	....
1923		571,310	581,299	1,152,609	67,512	1,952	235,958	....
1924		456,518	402,901	859,419	53,437	1,377	206,549	....

STEEL INGOT PRODUCTION—Daily Rates.

Approximate rates per working day, gross tons.

	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
January	97,820	135,225	130,550	96,794	72,764	142,263	135,182	155,502
February ...	113,537	132,397	141,742	83,270	86,324	144,660	153,050	156,510
March	143,367	120,206	145,043	66,467	104,247	150,618	161,796	161,482
April	145,813	101,202	120,478	53,339	116,090	158,549	128,787	137,982
May	145,907	83,934	131,664	55,616	119,215	156,161	97,779	133,010
June	147,810	104,207	136,119	44,085	120,299	144,894	82,627	123,348
July	143,517	113,334	127,994	36,709	118,112	141,258	72,223	118,753
August	136,874	124,086	137,019	48,150	97,380	136,881	98,188	131,694
September .	153,286	116,000	136,981	51,614	108,395	134,271	108,755	134,342
October	148,783	80,000	137,731	71,038	131,164	132,485	115,756	144,186
November .	141,077	90,000	120,497	72,933	131,935	120,551	124,846	156,297
December .	143,440	100,000	106,878	62,700	132,017	114,531	137,279	152,916
Year	138,428	108,343	131,033	61,814	111,511	139,825	117,984	142,080

STEEL INGOT PRODUCTION—Relatives.

Base (100) 116,094 tons per working day, the average in seven years 1919 to 1925 inclusive, or 36,100,000 tons per annum.

	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
January	84	116	112	83	63	123	116	134
February	98	114	122	72	74	125	132	135
March	123	104	125	57	90	130	139	139
April	126	87	104	46	100	137	110	119
May	126	72	113	48	103	135	84	115
June	127	90	117	38	104	125	71	106
July	124	98	110	32	102	122	62	102
August	118	107	118	41	84	118	85	113
September	132	100	118	44	93	116	94	116
October	128	69	119	61	113	114	100	124
November	122	78	104	63	114	104	108	135
December	124	86	92	54	114	99	118	132
Year	119	93	113	53	96	120	102	122

ROLLED IRON AND STEEL.—Gross Tons.

	1923		1924	
	Iron.	Steel.	Iron.	Steel.
Rails .....	.....	2,904,516	.....	2,433,332
Structural shapes	1,448	3,403,749	404	3,283,304
Plates	3,790	4,164,955	1,738	3,147,127
Sheets and black plate. .	2,227	5,326,745	31,375	4,907,643
Merchant bars	404,730	5,148,066	258,737	4,022,184
Concrete reinforcing bars	368	680,499	507	655,615
Rolled sheet piling .....	.....	36,716	.....	49,679
Railroad ties .....	.....	20,167	.....	14,968
Strips .....	.....	865,506	.....	827,101
Hoops .....	.....	220,835	.....	179,373
Bands and cotton ties ..	2,813	345,667	907	293,362
Splice bars, tie plates, ..	40,495	709,329	50,299	579,487
Wire rods	780	3,075,112	615	2,521,930
Skelp, flue, etc.	216,846	3,517,490	165,581	3,004,962
Nail and spike plate ...	103	22,730	67	22,108
Forging blooms, billets..	3,181	445,689	104	346,811
Billets, etc., for export. .	.....	781	.....	437
All other finished rolled	278,816	1,432,927	189,142	1,097,536
Totals	955,597	32,321,479	609,476	27,386,959
				28,086,435

STRUCTURAL STEEL LETTINGS.

Fabricated steel contracts let in percentage of monthly capacity. Bridge Builders' and Structural Society prior to April 1, 1922, then Department of Commerce. Capacity estimated at 210,000 net tons monthly in 1913, increasing to 285,000 tons in 1923, 293,000 tons in 1924 and 305,000 tons in 1925.

	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
January ...	62	25	69	61	53	12	75	18	40	72	72	57
February ..	63	30	75	59	56	13	95	14	44	78	73	58
March	76	64	102	68	47	18	84	29	77	93	70	69
April	88	62	73	61	64	25	68	31	85	78	66	76
May	57	61	80	56	60	49	62	28	79	56	60	68
June	56	80	58	47	56	65	50	37	73	52	65	86
July	68	86	48	42	116	74	50	34	67	51	69	81
August	28	85	64	38	57	78	40	33	68	58	59	78
September..	38	67	53	29	60	78	43	48	63	52	66	81
October	35	78	77	61	43	78	26	54	57	49	66	90
November ..	20	105	78	77	27	69	27	55	49	54	84	71
December ..	35	121	86	114	29	85	26	40	60	80	79	75
Average ...	52	72	72	59	56	54	54	36	64	64	69	74

The Mansfield Sheet & Tin Plate COMPANY

MANSFIELD, OHIO

Ashtabula Steel Sheet Company
Ashtabula, Ohio

(Operated by The Mansfield Sheet & Tin Plate Company)

Manufacturers of
Regular and Special Finish
Black Sheets

Deep Drawing and Spinning Steel
Electrical Sheets

Wabik Metal
Special Vitreous Enameling Sheets

SPECIALTIES

Automobile Stock for Hoods,
Fenders and Bodies, Regular
Deep and Extra Deep Draw-
ing Base.

Stove and Pipe Manufactur-
ers' requirements. Uniform
Color Stove Pipe Blue and
different grades of Polished
Blue Sheets.

PRODUCTION OF ROLLED IRON AND STEEL—Gross Tons.

Rolled iron. (Rolled steel not reported.)

1856	516,255	1871	1,292,396	1879	1,828,111
1864	778,863	1872	1,649,930	1880	2,082,739
1865	764,589	1873	1,640,563	1881	2,360,649
1866	916,151	1874	1,513,050	1882	2,226,635
1867	928,032	1875	1,428,139	1883	2,097,208
1868	980,157	1876	1,347,562	1884	1,747,596
1869	1,094,961	1877	1,318,535	1885	1,611,184
1870	1,152,679	1878	1,388,907	1886	2,038,948

Rolled iron. Rolled steel. Total rolled.

1887	....	2,311,161	2,924,545	5,235,706
1888	....	2,153,263	2,464,086	4,617,349
1889	....	2,309,272	2,927,656	5,236,928
1890	....	2,518,194	3,504,681	6,022,875

Rolled iron and steel.

1891	....	5,390,963	1900	....	9,487,443
1892	....	6,165,814	1901	....	12,349,327
1893	....	4,975,685	1902	....	13,944,116
1894	....	4,642,211	1903	....	13,207,697
1895	....	6,189,574	1904	....	12,013,381
1896	....	5,515,841	1905	....	16,840,015
1897	....	7,001,728	1906	....	19,588,468
1898	....	8,513,370	1907	....	19,864,822
1899	....	10,294,419	1908	....	11,828,193

Rolled iron. Rolled steel. Total rolled.

1909	..	1,709,431	17,935,259	19,644,690
1910	..	1,740,156	19,881,123	21,621,279
1911	..	1,460,615	17,578,566	19,039,171
1912	..	1,637,582	23,019,259	24,656,841
1913	..	1,678,257	23,112,986	24,791,243
1914	..	1,167,776	17,202,420	18,370,196
1915	..	1,294,833	23,098,091	24,392,924
1916	..	1,822,571	30,557,818	32,380,389
1917	..	1,867,757	31,199,943	33,067,700
1918	..	1,573,976	29,581,778	31,155,754
1919	..	1,059,451	24,042,093	25,101,544
1920	..	1,377,566	30,970,297	32,347,863
1921	..	545,677	14,228,329	14,774,006
1922	..	905,097	25,546,907	26,452,004
1923	..	955,597	32,321,479	33,277,076
1924	..	699,476	27,386,959	28,086,435 _g

BETHLEHEM STEEL COMPANY

Pig Iron and Iron and Steel Products

Plants at

Bethlehem Reading Lebanon Steelton
Coatesville and Johnstown, Pa.
Sparrow's Point, Md.
Lackawanna, N. Y.

General Offices: BETHLEHEM, PA.

Sales Offices:

New York Boston Philadelphia Baltimore Washington
Atlanta Pittsburgh Buffalo Cleveland Cincinnati Detroit
Chicago St. Louis San Francisco Los Angeles Seattle

BETHLEHEM

PRODUCTION OF ROLLED IRON AND STEEL—Gross Tons.

Year.	Iron and steel rails.	Plates and sheets.	Wire rods.	Structural shapes.	Nail plate. Skelp.	Bars, Skelp and all other. Merchant bars.	Total*
1890	1,885,307	809,981	457,099	.....	251,828	2,618,660	6,022,875
1895	1,306,135	991,459	791,130	517,920	95,085	2,487,845	6,189,574
1900	2,385,682	1,794,528	846,291	815,161	.....	.....	9,487,443
1905	3,375,929	3,532,230	1,808,688	1,660,519	1,435,995	3,593,601	16,840,015
1910	3,636,031	4,955,484	2,241,830	2,266,800	1,828,194	3,785,731	21,621,279
1912	3,327,915	5,875,080	2,653,553	2,846,487	2,446,816	3,697,114	24,656,841
1913	3,502,780	5,751,037	2,464,807	3,004,972	2,501,964	3,957,609	24,791,243
1914	1,945,095	4,719,246	2,431,714	2,031,124	1,982,431	2,523,631	18,370,196
1915	2,204,203	6,077,694	3,095,907	2,437,003	2,299,464	4,131,242	24,392,924
1916	2,854,518	7,453,980	3,518,746	3,029,964	2,927,674	6,230,302	32,380,389
1917	2,944,161	8,267,616	3,137,138	3,110,000	2,674,231	6,209,957	33,067,700
1918	2,540,892	8,799,135	2,562,390	2,849,969	2,564,011	6,242,749	31,155,754
1919	2,203,843	7,372,814	2,538,476	2,614,036	2,555,678	4,391,624	25,101,544
1920	2,604,116	9,337,680	3,136,907	3,306,748	3,220,289	6,130,240	32,347,863
1921	2,178,818	4,260,574	1,564,330	1,272,624	1,930,575	1,565,754	14,774,006
1922	2,171,776	7,968,397	2,654,741	2,718,768	2,859,095	3,978,658	26,452,004
1923	2,904,516	9,497,717	3,075,892	3,405,197	3,734,336	5,552,796	33,277,076
1924	2,433,332	8,087,883	2,522,545	3,283,708	3,170,543	4,280,921	28,086,435

* Includes hoops, splice bars, reinforcing bars, rolled sheet piling, etc.

RAIL PRODUCTION—Gross Tons.

	Iron.	Steel.	Total.
1867	410,319	2,277	412,596
1870	523,214	30,357	553,571
1872	*808,866	83,991	892,857
1875	447,901	259,699	707,600
1876	†417,114	†368,269	785,383
1877	†296,911	†385,865	682,776
1880	440,859	864,353	1,305,212
1885	13,228	963,750	976,978
1887	20,591	2,119,049	‡2,139,640
1890	13,882	1,871,425	1,885,307
1895	5,810	1,300,325	1,306,135
1900	695	2,384,987	2,385,682
1905	318	3,375,611	3,375,929
1906	15	3,977,872	§3,977,887
1907	925	3,632,729	3,633,654
1908	71	1,920,944	1,921,015
1909	0	3,023,845	3,023,845
1910	230	3,635,801	3,636,031
1911	234	2,822,556	2,822,790

No more iron rails produced.

	Pro- duction.	Im- ports.	Ex- ports.	Supply.
1912 ..	3,327,915	3,780	446,473	2,885,222
1913 ..	3,502,780	10,408	460,553	3,052,635
1914 ..	1,945,095	22,571	174,680	1,792,986
1915 ..	2,204,203	78,525	391,379	1,891,349
1916 ..	2,854,518	26,299	540,828	2,339,989
1917 ..	2,944,161	9,263	512,669	2,440,755
1918 ..	2,540,892	8,705	453,537	2,096,060
1919 ..	2,203,843	17,008	652,443	1,568,408
1920 ..	2,604,116	45,684	594,628	2,055,172
1921 ..	2,178,818	22,048	321,822	1,879,044
1922 ..	2,171,776	26,629	277,090	1,921,315
1923 ..	2,904,516	29,706	267,409	2,666,813
1924 ..	2,433,332	43,358	208,496	2,268,194

* Maximum iron rail production.

† Steel rails passing iron rails.

‡ Maximum production until 1899, 12 years; imports in 1887, 137,830 tons; exports, 549 tons; apparent consumption, 2,276,921 tons.

§ Maximum production: imports, 4,943 tons; exports, 328,036 tons; apparent consumption, 3,654,794 tons.

RAILS.

Iron rails, Eastern Pennsylvania mill:

1847 .. 69.34	1859 .. 49.37	1871 .. 70.37
1848 .. 62.25	1860 .. 48.00	1872 .. 85.12
1849 .. 53.87	1861 .. 42.37	1873 .. 76.67
1850 .. 47.87	1862 .. 41.75	1874 .. 58.75
1851 .. 45.62	1863 .. 76.87	1875 .. 47.75
1852 .. 48.37	1864 .. 126.00	1876 .. 41.25
1853 .. 77.25	1865 .. 98.62	1877 .. 35.25
1854 .. 80.12	1866 .. 86.75	1878 .. 33.75
1855 .. 62.87	1867 .. 83.12	1879 .. 41.25
1856 .. 64.37	1868 .. 78.87	1880 .. 49.25
1857 .. 64.25	1869 .. 77.25	1881 .. 47.12
1858 .. 50.00	1870 .. 72.25	1882 .. 45.50

Steel rails, Pennsylvania mill:

1870 .. 106.79	1880 .. 67.52	1890 .. 31.78
1871 .. 102.52	1881 .. 61.08	1891 .. 29.92
1872 .. 111.94	1882 .. 48.50	1892 .. 30.00
1873 .. 120.58	1883 .. 37.75	1893 .. 28.12
1874 .. 94.28	1884 .. 30.75	1894 .. 24.00
1875 .. 68.75	1885 .. 28.52	1895 .. 24.33
1876 .. 59.25	1886 .. 34.52	1896 .. 28.00
1877 .. 45.58	1887 .. 37.08	1897 .. 18.75
1878 .. 42.21	1888 .. 29.83	1898 .. 17.62
1879 .. 48.21	1889 .. 29.25	1899 .. 28.12

Changes, f.o.b. mill except Colorado mill.

October 24, 1899	35.00
September 10, 1900 (approximate)....	30.00
September 24, 1900 (approximate)....	26.00
May 1, 1901 (effective date)	28.00

About 1909 open-hearth became \$2.00 over Bessemer, making \$30.00.

May 1, 1916 (effective date)	33.00*
November 15, 1916	38.00*
Government war control	55.00*
March 21, 1919, Industrial Board	45.00*
March 1, 1920	55.00*
December 15, 1920	45.00*
October 22, 1921	40.00†
October 1, 1922 (effective date)	43.00†

* Open-hearth \$2.00 additional.

† Bessemer and open-hearth.

H. N. TRIMBLE

IRON
and
STEEL
SCRAP

General Offices:
OLIVER BUILDING
PITTSBURGH

HEAVY MELTING STEEL SCRAP, PITTSBURGH.

Averaged from daily quotations; delivered Pittsburgh points.

	1912.	1913.	1914.	1915.	1916.	1917.	*1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	12.75	15.00	11.25	11.40	17.75	23.50	30.00	19.00	26.50	15.66	14.67	22.00	21.25	21.50
Feb.	12.58	14.35	12.00	11.70	17.20	22.50	30.00	15.35	28.00	15.00	14.25	23.35	21.10	19.90
Mar.	12.72	14.35	12.25	11.80	18.40	24.00	30.00	15.25	27.35	14.42	15.35	25.30	19.60	18.60
Apr.	12.90	14.25	12.25	11.65	18.00	27.75	29.85	15.63	25.35	13.00	16.60	25.00	16.50	16.90
May	13.25	13.50	11.75	11.65	17.00	29.25	29.00	15.80	25.60	13.50	17.25	22.50	15.25	16.85
June	13.45	13.20	11.75	11.75	16.25	40.75	29.00	17.46	25.85	12.75	17.25	21.10	15.75	17.55
July	13.57	12.50	11.75	12.62	16.70	38.75	29.00	20.00	25.85	12.00	16.85	18.35	16.85	18.17
Aug.	13.60	12.40	11.50	14.05	16.25	34.00	29.00	20.60	28.25	12.75	17.45	17.90	17.35	19.20
Sept.	14.10	12.60	11.25	14.25	16.61	34.00	29.00	19.75	29.00	14.60	20.00	17.90	18.60	18.80
Oct.	15.75	12.25	10.75	14.50	18.25	29.35	29.00	20.00	27.90	14.30	21.00	15.80	18.30	18.45
Nov.	15.35	11.40	10.10	16.12	22.50	29.00	28.00	22.00	22.00	14.60	20.50	16.10	19.90	19.25
Dec.	15.10	11.00	10.50	17.65	25.50	30.00	25.00	24.40	15.35	14.50	20.40	18.50	21.40	19.25
Av.	13.76	13.07	11.42	13.26	18.37	30.24	28.82	18.77	25.58	13.92	17.63	20.32	18.49	18.70

* Commission, 3½% allowed May 2; generally paid until about November 1.



The M. N. Landay Co.

**First National Bank Bldg.
PITTSBURGH, PA.**

**IRON and STEEL
SCRAP**

**RELAYING RAILS
and
SPECIALTIES**

Representing

**Perry-Buxton-Doane Co.
Hyman-Michaels Co.**

**Philadelphia
Chicago**

CAST SCRAP, PITTSBURGH.

No. 1 cast scrap cupola sizes, gross tons, delivered Pittsburgh points.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	12.50	14.65	12.00	11.25	15.10	20.75	30.00	26.00	33.40	20.75	16.60	23.50	21.25	19.75
Feb.	12.37	14.65	12.50	11.35	15.35	19.75	30.83	20.00	37.85	22.25	16.25	24.15	21.25	19.75
Mar.	12.37	14.60	12.40	11.50	15.75	22.00	34.85	19.00	39.50	20.75	16.25	26.25	20.65	18.55
Apr.	12.40	14.50	12.15	11.85	16.00	24.00	34.00	19.50	38.50	19.00	17.25	27.15	18.65	18.10
May	12.40	14.25	12.25	11.85	16.10	25.25	34.00	19.50	38.50	18.50	18.25	26.25	17.95	17.30
June	13.00	13.50	12.25	11.85	15.40	32.25	34.00	20.50	39.30	16.75	18.60	24.40	17.75	17.25
July	13.37	12.30	11.50	12.00	15.30	33.50	34.00	22.50	41.00	15.50	19.25	21.85	17.75	17.25
Aug.	13.35	12.50	11.25	12.85	15.00	30.50	34.00	24.00	42.35	15.90	19.35	21.75	17.75	17.25
Sept.	13.40	12.50	11.25	13.10	15.00	31.00	34.00	23.50	42.75	16.83	21.75	21.65	17.75	17.25
Oct.	14.05	12.40	11.25	13.35	15.75	27.00	34.00	24.00	39.00	17.10	24.00	19.85	17.85	17.25
Nov.	15.00	12.00	10.75	13.90	17.75	26.75	34.00	27.45	32.25	16.75	23.20	18.85	18.35	17.75
Dec.	15.10	11.60	11.00	14.95	21.40	28.50	31.00	30.30	24.00	16.75	22.75	20.50	18.75	18.74
Av.	13.28	13.29	11.71	12.48	16.16	26.77	33.22	23.02	37.37	18.07	19.46	23.01	18.81	17.93

STEEL SCRAP, PHILADELPHIA.

No. 1 steel scrap, delivered Eastern Pennsylvania, averaged from daily quotations; gross tons.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	12.50	14.50	10.50	10.30	16.30	22.75	28.50	17.25	24.50	15.00	11.45	20.85	18.60	19.37
Feb.	12.00	13.25	11.50	10.70	16.25	21.15	27.50	14.50	26.00	14.65	11.50	21.10	18.90	17.50
Mar.	12.20	13.60	11.50	10.85	17.15	23.00	29.85	15.00	25.50	12.85	11.75	25.25	17.00	16.15
Apr.	13.25	13.75	10.80	11.10	18.00	25.50	29.00	16.00	24.40	11.15	14.25	24.00	15.30	14.95
May	13.50	12.25	10.60	11.25	17.00	26.50	29.00	15.50	23.00	11.12	14.70	20.25	14.60	14.85
June	13.50	11.50	10.50	11.25	15.45	34.50	29.00	16.63	22.75	10.75	14.50	18.30	15.00	15.25
July	13.60	11.15	10.60	11.85	15.00	36.00	29.00	18.90	22.90	10.30	14.40	17.10	15.35	15.52
Aug.	14.25	11.85	10.75	13.70	15.00	31.50	29.00	19.00	25.00	10.67	14.75	16.25	16.60	16.45
Sept.	15.25	12.25	10.75	14.70	15.00	32.00	29.00	18.75	26.00	11.10	17.00	17.05	17.00	16.50
Oct.	15.75	11.20	10.00	14.50	15.65	27.00	29.00	19.25	23.00	11.35	18.35	16.40	16.75	16.35
Nov.	15.30	10.30	9.25	14.65	18.25	26.75	28.00	20.50	19.50	11.85	16.65	15.30	17.60	17.00
Dec.	14.75	9.75	9.65	15.60	23.95	27.50	24.00	23.50	16.00	11.25	16.70	17.15	20.10	16.80
Av.	13.82	12.12	10.53	12.54	16.92	27.85	28.40	17.90	23.21	11.84	14.67	19.08	16.90	16.39

SCRAP, CHICAGO.

	Heavy cast. Net.	No. 1 R.R. wrought. Net.	Old rails.* Gross.	Heavy melting. Gross.
1904..	10.95	12.45	16.56	10.72
1905..	13.49	16.14	20.18	13.96
1906..	14.55	15.62	23.04	14.74
1907..	17.26	14.63	22.47	15.08
1908..	12.69	12.45	16.60	12.45
1909..	13.79	13.76	18.31	14.63
1910..	13.46	13.00	17.85	13.78
1911..	11.00	11.25	14.70	11.21
1912..	12.31**	12.50	14.18*	12.30
1913..	11.41**	10.90	13.32*	11.21
1914..	9.87**	8.65	11.21*	9.55
1915..	9.92**	10.30	12.13*	10.99
1916..	13.28**	17.33	18.68*	16.90
1917..	21.84**	31.35	35.51*	29.14
1918..	27.61**	30.00	33.76*	28.47
1919..	23.75**	18.75	24.40*	18.34
1920..	36.79**	23.76	31.98*	23.06
1921..	14.27**	11.28	13.75*	12.22
1922..	16.11**	13.75	16.00*	15.18
1923..	19.89**	16.15	19.25*	18.17
1924..	17.34**	13.75	17.45*	16.14

* Old iron rails through 1911; steel rerollers thereafter. ** No. 1 cast.

	No. 1 cast, net			Heavy melting steel		
	1923.	1924.	1925.	1923.	1924.	1925.
Jan.	20.40	18.60	18.15	19.30	17.60	19.45
Feb.	22.50	19.45	17.70	20.00	18.25	17.85
Mar.	24.75	18.95	17.35	23.45	16.35	16.80
Apr.	23.20	17.85	15.75	22.25	14.45	15.10
May	20.75	16.75	15.55	19.50	13.63	15.40
June	18.85	16.25	16.55	18.25	13.75	16.00
July	18.15	16.00	16.40	17.20	15.20	15.95
Aug.	17.75	16.25	17.25	16.20	15.50	16.45
Sept.	19.25	17.00	16.45	16.50	16.60	16.35
Oct.	17.25	16.75	16.70	14.35	16.25	16.25
Nov.	17.25	16.75	17.35	14.50	17.35	16.37
Dec.	18.55	17.50	16.70	16.50	18.75	15.55
Av.	19.89	17.34	16.83	18.17	16.14	16.46

Follansbee Forge

HAMMER PROCESS - THE BETTER STEEL

STEEL SHEETS & TIN PLATES

Deep Drawing and Stamping Qualities

Automobile Sheets

Follansbee Forge Polished Sheets

Follansbee Forge Blue Sheets

Follansbee Forge Improved Electric Sheets

Follansbee Forge Special Dynamo Sheets

Follansbee Forge Special Motor Sheets

Follansbee Forge High Silicon

Transformer Sheets

Follansbee Forge "Drawrite"

Charcoal Bright Tin Plate

Follansbee Forge Excello

Follansbee Forge Banfield Best Bright

Follansbee Forge Gilbert

Follansbee Forge Rosedale

Follansbee Forge Haynes

Follansbee Forge Clifton

Roofing Terne Plate

Follansbee Forge Best Roofing

20 x 28" and Long Sheets

Long Terne Sheets

Follansbee Forge Lustró Coated Sheets

(Nickel, Brass and Copper Finish Sheet Steel)

Sheet Metal Workers' Machines,

Tools and Supplies

FOLLANSBEE BROTHERS CO.

General Offices and Warehouses

PITTSBURGH

Mills: Follansbee, W. Va., and Toronto, Ohio

Branch Offices and Warehouses:

Boston

New York

Rochester

St. Louis

Philadelphia

Buffalo

Indianapolis

Detroit

Cleveland

Milwaukee

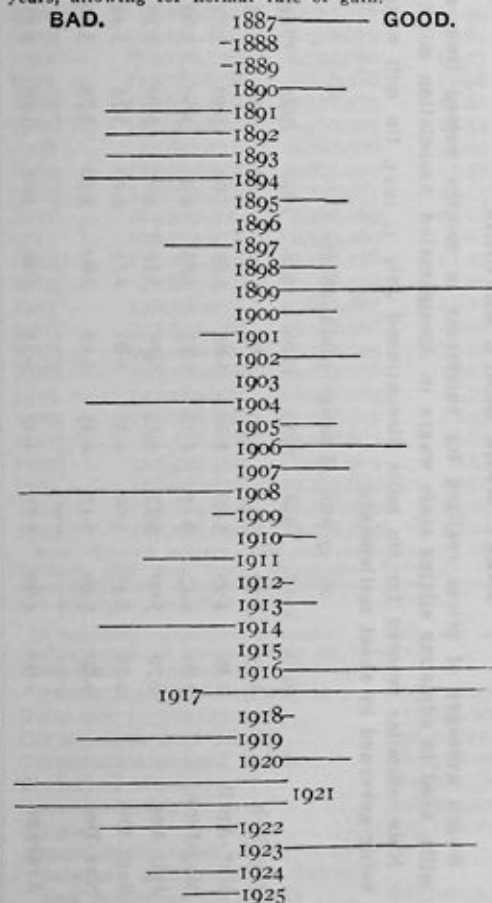
Louisville

Memphis

Nashville

GOOD AND BAD YEARS IN IRON.

Computed for each year by comparing production and price of pig iron with average of two preceding years, allowing for normal rate of gain.



SHEET WAGE SCALE RETURNS.

Sworn averages of prices realized for shipments in months named from selected mills, used in adjusting sliding scale wages in Amalgamated Association mills.

Note.—Similar returns for tin mills discontinued July 1, 1923, tin mill wages then being governed by sheet settlements.

26, 27 and 28 gauge black sheets.

	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.-Feb.	2.25	3.40	5.35	4.90	4.65	4.30	2.80	3.30	3.75	3.40
Mar.-April	2.50	3.90	5.10	4.50	5.05	3.95	2.80	3.40	3.70	3.40
May-June	2.60	4.45	5.15	4.35	5.75	3.85	2.90	3.60	3.60	3.25
July-Aug.	2.70	5.00	5.15	4.35	5.70	3.10	3.05	3.70	3.50	3.10
Sept.-Oct	2.75	5.35	5.00	4.35	5.80	2.75	3.20	3.75	3.45	3.10
Nov.-Dec.	2.80	5.50	5.15	4.35	5.15	2.80	3.30	3.75	3.40	3.10
Average	2.60	4.60	5.15	4.47	5.35	3.46	3.01	3.58	3.57	3.23

U. S. STEEL CORPORATION.

	Total earnings.	Steel products for sale.	Average per ton.
1902 ...	\$133,308,764	8,033,556	\$16.59
1903 ...	109,171,152	7,458,879	14.64
1904 ...	73,176,522	6,792,780	10.77
1905 ...	119,787,658	9,226,386	12.98
1906 ...	156,624,273	10,578,433	14.81
1907 ...	160,964,674	10,491,505	15.34
1908 ...	91,847,711	6,282,366	14.62
1909 ...	131,491,414	9,691,290	13.57
1910 ...	141,054,755	10,727,751	13.15
1911 ...	104,305,466	9,460,169	11.03
1912 ...	108,174,673	12,533,460	8.63
1913 ...	137,181,345	12,168,758	11.27
1914 ...	71,663,615	9,078,559	7.89
1915 ...	130,396,012	11,681,887	11.16
1916 ...	333,574,178	15,542,088	21.46
1917 ...	295,292,180	15,370,105	19.21
1918 ...	199,350,680	14,124,985	14.11
1919 ...	143,589,063	12,243,183	11.73
1920 ...	176,686,898	14,098,707	12.53
1921 ...	92,726,058	7,958,833	11.65
1922 ...	101,529,310	11,911,904	8.52
1923 ...	179,646,674	14,373,822	12.50
1924 ...	153,114,812	11,526,890	13.28
1925 ...	165,188,090	*13,500,000	12.24

Note.—Second column, 1906 and earlier years, production; 1907 and later, shipments. Earnings are after deduction of subsidiary company bond interest and all taxes including Federal. * Estimated.

Outstanding securities, December 31, 1924, not including bonds in sinking funds, as follows:

Subsidiary company bonds	
guaranteed by corporation..	\$97,178,000
Ditto not so guaranteed	52,068,400
Corporation first bonds	196,000,000
Corporation second bonds	165,346,000
Preferred stock	360,281,100
Common stock	508,302,500
Total	\$1,379,176,000
Approximate total of all bond interest and sinking funds and preferred dividends	
	\$65,650,000

U. S. STEEL CORPORATION EARNINGS.

After payment of subsidiary company bond interest.

	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. ...	12,240,167	13,503,209	14,387,474	4,654,134	10,561,241	14,771,103	13,027,058
Feb. ...	11,883,027	12,880,910	10,157,896	6,180,685	9,527,181	16,238,867	12,357,801
Mar. ..	9,390,190	15,704,900	7,741,352	8,505,166	14,691,647	19,065,475	14,498,133
Quar. ..	33,513,384	42,089,019	32,286,722	19,339,985	34,780,069	50,075,445	39,882,992
Apr. ...	11,027,393	12,190,446	7,336,655	7,750,054	14,399,988	16,048,912	13,376,821
May ...	10,932,559	15,205,518	7,731,649	8,824,887	17,698,675	13,419,194	13,803,453
June ..	12,371,349	15,759,741	6,823,712	10,712,004	15,759,518	11,912,934	13,443,947
Quar. ..	34,331,301	43,155,705	21,892,017	27,286,945	47,858,181	41,381,040	40,624,221
July ...	13,567,100	16,436,802	5,157,395	9,833,664	15,767,003	10,430,105	13,908,513
Aug. ...	14,444,881	15,440,416	6,502,977	10,615,085	16,997,467	10,107,685	14,399,265
Sept. ..	12,165,251	16,174,322	7,257,687	7,019,591	14,289,210	10,180,625	14,092,634
Quar. ..	40,177,232	48,051,540	18,918,059	27,468,340	47,053,680	30,718,415	42,400,412
Oct. ...	11,109,586	16,775,443	8,204,358	8,566,354	18,600,197	12,236,014	14,591,975
Nov. ...	11,768,914	15,002,919	6,440,438	9,663,351	17,286,551	8,903,576	14,210,992
Dec. ...	12,688,646	11,612,273	4,984,464	9,204,336	14,067,997	9,800,322	13,477,498
Quar. ..	35,567,145	43,390,634	19,629,260	27,434,040	49,954,744	30,939,912	42,280,465
Year ..	143,589,063	176,686,898	92,726,058	101,529,310	179,646,674	153,114,812	165,188,090

U. S. STEEL CORPORATION

Steel products for sale, production, capacity, and per cent. of capacity produced.

	Production.	Per cent.	Capacity.
1909	9,859,660	75	13,100,000
1910	10,733,995	80	13,400,000
1911	9,476,248	68	13,900,000
1912	12,506,619	90	13,900,000
1913	12,374,838	88	14,000,000
1914	9,014,512	62	14,500,000
1915	11,762,639	81	14,500,000
1916	15,460,792	100	15,500,000
1917	14,942,911	93	16,000,000
1918	13,849,483	87	16,000,000
1919	11,997,935	74½	16,100,000
1920	14,228,502	88	16,100,000
1921	7,860,334	47½	16,500,000
1922	11,785,331	71.3	16,500,000
1923	14,721,469	88.3	16,675,000
1924	11,722,908	70.0	16,675,000
1925 (est.)	13,500,000	81.0	16,675,000

Shipments of rolled steel and other finished products, tons:

	Domestic.	Export.	Total.
1907	9,477,491	1,014,014	10,491,505
1908	5,505,090	777,276	6,282,366
1909	8,690,133	1,001,157	9,691,290
1910	9,511,694	1,216,057	10,727,751
1911	7,740,897	1,719,272	9,460,169
1912	10,299,890	2,233,570	12,533,460
1913	10,412,430	1,756,328	12,168,758
1914	7,982,325	1,096,234	9,078,559
1915	9,331,363	2,350,524	11,681,887
1916	13,075,295	2,466,793	15,542,088
1917	13,196,910	2,173,195	15,370,105
1918	12,384,169	1,740,817	14,124,986
1919	10,310,729	1,932,454	12,243,183
1920	12,453,243	1,645,464	14,098,707
1921	6,832,038	1,126,795	7,958,833
1922	10,708,022	1,203,882	11,911,904
1923	13,196,298	1,177,524	14,373,822
1924	13,196,298	1,177,524	14,373,822

Illinois Steel Co.

208 SOUTH LA SALLE STREET
CHICAGO, ILL.



A Partial List of Our Products



Heavy — RAILS — Light
ANGLE BARS and JOINTS
TIE PLATES
TRACK SPIKES — SCREW SPIKES
TRACK BOLTS and NUTS
CAR and LOCOMOTIVE WHEELS
CAR and LOCOMOTIVE AXLES
PLATES SHAPES
BARS BILLETS PIG IRON
Open Hearth — STEEL — Bessemer
Electric Alloy

U. S. STEEL CORPORATION.

Changes in unfilled tonnage with shipments and bookings estimated in percentage of capacity.

	Ship- ments.	Book- ings.	Dif- ference.	Dif- ference.
1924—	%	%	%	Tons.
January...	82	106	+24	+353,090
February..	92	101	+9	+114,472
March	95	86	—9	—130,094
April	80	39	—41	—574,360
May	71	31	—40	—580,358
June	61	34	—27	—365,584
July	45	40	—5	—75,433
August ...	52	59	+7	+102,505
September	65	78	+13	+184,203
October ..	66	70	+4	+51,490
November.	70	108	+38	+506,699
December.	77	133	+56	+784,707
Average	71	73	+2	+30,945
1925—				
January...	90	105	+15	+220,647
Februray..	93	112	+19	+247,448
March....	94	64	—30	—421,207
April	85	55	—30	—416,996
May	76	48	—28	—396,768
June	72	48	—24	—339,342
July	68	56	—12	—170,991
August ...	70	68	—2	—26,664
September	75	90	+15	+204,494
October...	80	107	+27	+391,886
November.	85	121	+36	+472,597
December.	85	117	+32	+451,584
Average...	81	83	+2	+18,057

Tonnage is of steel products sold to customers outside the corporation. Capacity is about 16,675,000 tons or 53,600 tons per working day. Unfilled tonnage December 31, 1925, 5,033,364 tons.

U. S. STEEL CORPORATION.

Unfilled orders at end of quarter:

	First.	Second.	Third.	Fourth.
1915	4,255,749	4,678,196	5,317,618	7,806,220
1916	9,331,001	9,640,458	9,522,584	11,547,286
1917	11,711,644	11,383,287	9,833,477	9,381,718
1918	9,056,404	8,918,866	8,297,905	7,379,152
1919	5,430,572	4,892,855	6,284,638	8,265,366
1920	9,892,075	10,978,817	10,374,804	8,148,122
1921	6,284,765	5,117,868	4,560,670	4,268,414
1922	4,494,148	5,635,531	6,691,607	6,745,703
1923	7,403,332	6,386,261	5,035,750	4,445,339
1924	4,782,807	3,262,505	3,473,780	4,816,676
1925	4,863,564	3,710,458	3,717,297	5,033,364

The more important turning points above are indicated by bold face type.

STOCK PRICES.

		Preferred.		Common.	
		Low.	High.	Low.	High.
1901	....	69	101 ⁷ / ₈	24	55
1902	....	79	97 ³ / ₄	29 ³ / ₄	46 ⁷ / ₈
1903	....	49 ³ / ₄	89 ³ / ₄	10	39 ⁷ / ₈
1904	....	51 ¹ / ₄	95 ¹ / ₂	8 ³ / ₈	33 ¹ / ₈
1905	....	91	107	24 ⁷ / ₈	39 ¹ / ₈
1906	....	98 ³ / ₄	113 ¹ / ₄	32 ³ / ₈	50 ¹ / ₄
1907	....	79 ³ / ₈	107 ³ / ₄	21 ⁷ / ₈	50 ³ / ₈
1908	....	87 ¹ / ₂	114 ⁵ / ₈	25 ³ / ₄	58 ³ / ₄
1909	....	107	131	41 ¹ / ₄	94 ⁷ / ₈
1910	....	110 ¹ / ₂	125 ³ / ₈	61 ¹ / ₈	91 ¹ / ₈
1911	....	103	121 ⁷ / ₈	50	82 ¹ / ₈
1912	....	107 ¹ / ₄	117	58 ¹ / ₄	80 ³ / ₄
1913	....	102 ¹ / ₂	110 ³ / ₄	49 ⁷ / ₈	69 ¹ / ₈
1914	....	103 ¹ / ₄	112 ³ / ₄	48	67 ¹ / ₄
1915	....	102	117	38	89 ¹ / ₂
1916	....	115	123	79 ³ / ₄	129 ³ / ₄
1917	....	102 ³ / ₄	121 ¹ / ₄	79 ¹ / ₂	136 ⁵ / ₈
1918	....	108	113 ⁵ / ₈	86 ¹ / ₂	116 ¹ / ₂
1919	....	111 ¹ / ₄	117 ¹ / ₂	88 ¹ / ₄	115 ¹ / ₂
1920	....	104 ¹ / ₄	115 ³ / ₄	76 ¹ / ₄	109
1921	....	105	115	70 ¹ / ₄	86 ¹ / ₂
1922	....	114 ¹ / ₄	123	82	111 ¹ / ₂
1923	....	116 ¹ / ₈	123 ¹ / ₂	85 ¹ / ₂	109 ⁵ / ₈
1924	....	118 ³ / ₈	123	94 ¹ / ₄	121
1925	....	122 ¹ / ₈	126 ⁵ / ₈	112 ³ / ₈	139 ¹ / ₄

IRON AND STEEL DUTIES.

The Fordney-McCumber tariff, effective September 22, 1922.

FREE

Agricultural implements, (not including lawn mowers, 30%).
 Bituminous coal and anthracite.
 Iron ore
 Needles.
 Barb wire, plain or galvanized.

DUTIABLE

Iron and steel scrap	75c
Pig iron	75c
Spiegeleisen	75c
Manganese per pound of manganese contained. 1c	
Ferromanganese per pound of manganese contained	13½c
Muck bar and bar iron	.2c to 1.5c
Billets, slabs, etc.	.2c to 3.5c
ditto, value over 16c	20%
Plates	.35c to .5c
ditto, value over 3c	20%
Sheets	.45c to .85c
ditto, value over 3c	20%
Galvanized sheets, additional	.2c
Tin and terne plate	1c
Shapes	.2c
ditto, fabricated	20%
Hoops	.25 to .55c
Cotton ties, cut hoops, etc.	.25c
Wire rods	.3c to .6c
Wire	.75c to 1.5c
ditto, value over .6c	25%
Galvanized fence wire and wire fence	.5c
Cast iron pipe	20%
Welded pipe	¾c to 1¼c
Chain	¾c to 4c
Nuts and washers	.6c
Bolts with or without nuts	1c
Rivets	1c
Cut nails, 2 in. or less	15%
ditto, over 2 in.	.4c
Wood screws	25%
Automobiles	25%
Airplanes	30%
Bicycles	15%
Locomotives	15%
Machine tools, lawn mowers and printing presses	30%



from Mine to Market

PIG IRON — BILLETS — SLABS
SHEET BARS—SKELP—SHEARED
PLATES — GROOVE ROLLED
PLATES — BLUE ANNEALED
SHEETS—BLACK SHEETS—FULL
FINISHED SHEETS—AUTO BODY
SHEETS—GALVANIZED SHEETS
LONG TERNE SHEETS — TIN
PLATE—TERNE PLATE—WIRE
RODS—BRIGHT AND ANNEALED
WIRE—WIRE NAILS—CUT NAILS
GALVANIZED WIRE — BARBED
WIRE — STANDARD PIPE — OIL
COUNTRY PIPE — COUPLINGS
TIE PLATES

WHEELING
STEEL CORPORATION

General Offices, Wheeling, W. Va.

IRON AND STEEL IMPORTS AND EXPORTS.

Imports, gross tons, typical years.

1871	1,141,933	1885	578,478
1876	204,211	1886	1,098,565
1880	1,886,019	1887	1,783,256

Gross tons.	Imports.	Exports.
1890	665,771	52,478
1891	557,882	46,030
1892	494,468	47,834
1893	438,495	73,216
1894	309,249	81,234
1895	378,208	89,389
1896	265,500	203,347
1897	157,834	616,605
1898	144,385	881,222
1899	173,220	942,689
1900	209,955	1,154,284
1901	221,292	700,857
1902	1,206,811	372,399
1903	1,178,797	326,590
1904	266,398	1,167,710
1905	416,000	1,010,255
1906	577,809	1,325,740
1907	662,349	1,301,979
1908	205,845	964,242
1909	363,984	1,243,584
1910	510,730	1,537,943
1911	262,457	2,187,725
1912	225,072	2,947,596
1913	317,260	2,745,635
1914	289,775	1,549,554
1915	282,396	3,532,608
1916	328,965	6,101,134
1917	330,201	6,439,067
1918	169,110	5,375,281
1919	322,264	4,399,698
1920	410,857	4,935,137
1921	124,421	2,213,549
1922	720,193	2,095,270
1923	742,098	2,134,062
1924	565,587	1,924,824
1925	943,240	1,762,571

IRON AND STEEL EXPORTS BY PRODUCTS—Gross Tons.

	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Scrap	2,160	27,275	219,250	37,592	64,572	65,980	97,748	82,573
Pig iron, ferro, etc.	269,575	321,261	216,838	28,307	32,718	37,427	45,423	38,170
Billets, skelp, etc.	1,786,189	258,424	216,873	10,171	107,201	110,881	92,155	87,478
Wire rods	148,523	118,010	116,775	18,953	40,424	40,868	18,762	21,203
Rails	453,537	652,443	594,638	321,822	279,105	267,409	208,496	151,690
Structural	232,729	360,787	493,633	297,022	91,677	155,725	122,272	125,112
Steel bars	579,249	554,211	629,051	188,463	179,835	158,319	99,534	115,639
Iron bars	63,367	60,547	46,628	12,339	*	12,662	5,054	4,615
Iron sheets and plates	40,756	39,892	32,157	12,415	12,445	14,158	11,005	14,768
Steel plates	551,967	710,013	920,959	335,868	100,987	115,462	85,048	104,450
Plates, punched, etc.	29,250	13,688	42,829	9,569	2,500	2,930	7,593	11,992
Steel sheets	163,421	177,466	169,244	193,433	214,916	139,105	148,742	95,431
Galvanized sheets	68,742	101,638	108,369	56,085	109,321	114,750	108,152	160,270
Tin plate	258,535	204,521	226,410	107,714	76,633	124,499	160,994	161,383
Wrought pipe and fittings	89,982	236,080	284,771	345,276	167,166	177,118	199,612	232,547
Cast pipe and fittings	55,961	39,455	68,417	48,524	27,302	28,065	28,771	32,193
Hoop, band and strip	50,673	50,836	53,449	20,274	34,511	38,245	34,141	40,933
Railroad spikes	9,969	24,771	16,601	8,164	7,895	8,598	7,986	7,728
Plain and galvanized wire ..	157,222	190,212	190,969	69,336	113,151	92,232	37,047	35,596
Barb wire and fence	235,083	101,451	129,710	29,976	73,622	74,846	90,444	71,115
Wire nails and spikes	78,726	89,779	93,178	28,109	55,021	45,981	21,665	9,837
Cut nails and spikes	3,834	2,921	3,858	1,094	3,509	2,300	2,123	1,619
Other nails and tacks	11,792	16,234	12,436	4,691	8,357	8,760	7,886	9,229
Bolts, nuts, rivets, etc.	28,332	39,742	38,944	24,231	18,325	18,907	17,495	16,956
Horse shoes	2,857	3,385	1,834	615	988	951	963	706
Radiators, etc.	2,857	4,656	7,336	1,408	5,413	5,963	3,875	3,570
Totals	5,375,281	4,399,698	4,935,137	2,313,549	12,095,270	12,134,062	11,924,824	11,763,571

* Included with steel. † Includes unenumerated.

U. S. FOREIGN COMMERCE.

Fiscal years:

	Imports.	Exports.	Balance.
1800...	\$91,252,768	\$70,971,780	*\$20,280,988
1810...	85,400,000	66,757,970	*18,642,030
1820...	74,450,000	69,691,669	*4,758,331
1830...	62,720,956	71,670,735	8,949,779
1840...	98,258,706	123,668,932	25,410,226
1850...	173,509,526	144,375,726	*29,133,800
1855...	257,808,708	218,909,503	*38,899,205
1860...	353,616,119	333,576,057	*20,040,062
1865...	238,745,580	166,029,303	*72,716,277
1870...	435,958,408	392,771,768	*43,186,640
1875...	533,005,436	513,442,711	*19,562,725
1880...	667,954,746	835,638,658	167,683,912
1885...	577,527,329	742,189,755	164,662,426
1890...	789,310,409	857,828,684	68,518,275
1895...	731,969,965	807,538,165	75,568,200

* Balance unfavorable.

Calendar years; three figures omitted.

	Imports.	Exports.	Balance.
1900	\$829,150	\$1,477,946	\$648,796
1905	1,179,145	1,626,991	447,846
1906	1,320,502	1,798,243	477,742
1907	1,423,170	1,923,426	500,256
1908	1,116,374	1,752,835	636,461
1909	1,475,521	1,728,199	252,678
1910	1,562,904	1,866,259	303,355
1911	1,532,359	2,092,527	560,168
1912	1,818,073	2,399,218	581,145
1913	1,792,596	2,484,018	691,422
1914	1,789,276	2,113,624	324,348
1915	1,778,597	3,554,671	1,776,074
1916	2,391,635	5,482,641	3,091,006
1917	2,952,468	6,233,513	3,281,045
1918	3,031,213	6,149,088	3,117,875
1919	3,904,365	7,920,426	4,016,061
1920	5,278,481	8,228,016	2,949,535
1921	2,509,148	4,485,031	1,975,883
1922	3,112,747	3,831,777	719,030
1923	3,792,066	4,167,493	375,427
1924	3,609,962	4,590,984	981,022
1925	4,227,995	4,909,396	681,401

PRODUCTION OF PIG IRON IN CANADA—Gross Tons.

	Bessemer.*	Foundry.†	All other.	Total.
1906.....	246,228	124,361	5,759	541,957
1907.....	341,257	78,901	6,078	581,146
1908.....	335,410	109,471	5,980	563,672
1909.....	357,965	108,608	40,972	677,090
1910.....	365,090	143,986	9,640	740,210
1911.....	413,303	190,324	34,467	824,368
1912.....	489,799	194,208	129	912,878
1913.....	558,524	225,231	3,701	1,015,118
1914.....	331,456	174,346	16,117	705,972
1915.....	660,369	125,769	25,568	825,420
1916.....	851,453	181,748	23,765	1,069,541
1917.....	861,728	168,964	41,321	1,085,981
1918.....	857,839	150,158	57,093	1,106,564
1919.....	515,359	257,315	83,397	862,866
1920.....	657,757	273,938	63,709	998,814
1921.....	461,644	111,178	42,943	615,765
1922.....	253,301	113,595	34,994	401,994
1923.....	550,059	263,192	95,530	908,781
1924.....	357,704	200,015	61,730	619,449

* Includes low-phosphorus. † Includes ferrosilicon.

STEEL PRODUCTION OF CANADA.

(Gross tons.)

	Ingots.	Castings.	Total.
1904.....	142,279	6,505	148,784
1905.....	394,055	9,394	403,449
1906.....	555,913	14,976	570,889
1907.....	629,026	17,728	646,754
1908.....	500,300	9,657	509,957
1909.....	664,789	13,962	678,751
1910.....	723,002	18,922	741,924
1911.....	768,559	22,312	790,871
1912.....	820,792	32,239	853,031
1913.....	1,006,149	36,354	1,042,503
1914.....	724,596	18,756	743,352
1915.....	873,265	39,490	912,755
1916.....	1,255,196	31,313	1,286,509
1917.....	1,513,256	49,033	1,562,289
1918.....	1,622,122	72,855	1,694,977
1919.....	891,309	36,332	927,641
1920.....	1,048,089	61,833	1,109,922
1921.....	646,306	23,242	669,548
1922.....	458,971	22,166	481,137
1923.....	839,234	45,248	884,482
1924.....	634,952	25,908	660,860

Miscellaneous production, imports and exports, net tons, including iron ore:

	1923.	1924.
Coal production	16,990,571	13,634,836
Coal imports	20,989,953	16,724,779
Coal exports	1,654,406	773,246
Coke production	1,144,189	904,707
Coke imports	733,604	521,725
Coke exports	34,407	23,144
Iron ore shipments ...	30,759	1,480
Imported ore consumed	1,972,094	1,184,575
Ore exports	8,076	4,932
Production, gross tons:		
Rails	208,492	203,155
Wrought pipe	80,227	62,844
Cut and wire nails, kegs	1,227,800	1,004,025
Cast iron pipe and fittings, net tons ...	68,430	72,030

WORLD PIG IRON PRODUCTION.

Reduced to gross tons, 2,240 lbs.

	1924.	1925.
United States	31,405,790	36,650,000
Germany	7,700,000	10,100,000
France	7,569,380	8,400,000
United Kingdom	7,318,900	6,236,200
Belgium	2,762,871	2,500,000
Luxemburg	2,122,501	.....
Czecho-Slovakia	967,243	.....
India	881,498	.....
Russia	*654,149	.....
Canada	619,449	570,397
Sweden	526,757	418,000
Spain	501,210	.....
Australia	416,050	.....
Brazil	†375,000	.....
Poland	330,571	.....
Italy	323,440	.....
Hungary	295,000	.....
Austria	262,181	.....
China	‡163,672	.....
Japan	†88,202	.....
Korea	†81,884	.....
Norway	63,911	.....
Rumania	45,340	.....
Mexico	‡23,387	.....
Jugoslavia	‡16,085	.....
Finland	‡11,878	.....

Total 65,526,349

* Year ends Sept. 30. † 1923. ‡ 1922.

Annual Totals.

1850.....	4,400,000	1913.....	78,000,000
1890.....	27,000,000	1922.....	53,000,000
1900.....	40,200,000	1923.....	67,300,000
1905.....	54,000,000	1924.....	65,500,000
1910.....	65,300,000		

WORLD STEEL PRODUCTION.

Steel ingots and castings, reduced to gross
tons, 2,240 lbs.

	1923.	1924.
United States	44,943,696	37,931,939
Germany	6,203,916	9,580,000
United Kingdom	8,481,800	8,221,100
France	5,027,400	6,789,412
Belgium	2,259,976	2,814,567
Luxemburg	1,181,879	1,856,556
Italy	1,123,411	1,337,014
Czecho-Slovakia	980,000	1,328,000
Russia	704,952	*984,634
Canada	884,482	660,860
Poland	1,109,842	661,984
Spain	455,166	531,333
Sweden	266,330	485,000
Japan	464,350	500,000
Austria	499,266	370,755
Hungary	350,000	234,072
India	†151,097	†218,472
Australia	‡52,810	‡200,000
China	150,000	150,000
Union of So. Africa..	24,164	§24,164
Norway .....	.....	2,216

Total 75,314,537 74,882,078

* Year ended September 30, 1924.

† Including rails.

‡ New Castle Works only, years ended
May 31.

§ 1923.

Annual Totals.

1878	3,021,000
1889	10,948,000
1899	27,000,000
1901	30,500,000
1923	75,300,000
1924	74,900,000

FREIGHT CAR LOADINGS AND TON-MILEAGE.

Revenue freight car loadings.

	Weeks.	1920.	1921.	1922.	1923.	1924.	1925.
January	4	3,279,004	2,823,759	2,785,119	3,373,965	3,364,647	3,554,938
February	4	3,104,710	2,739,234	3,027,886	3,361,599	3,616,928	3,652,471
March	5	4,239,708	3,452,941	4,088,132	4,581,176	4,606,436	4,557,826
April	4	2,921,986	2,822,713	2,863,416	3,764,266	3,498,230	3,721,662
May	5	4,275,479	3,733,137	3,841,683	4,876,893	4,473,729	4,854,720
June	4	3,650,836	3,114,137	3,414,031	4,047,603	3,625,182	3,956,011
July	4	3,603,826	2,998,885	3,252,107	3,940,735	3,524,909	3,887,834
August	5	4,838,043	4,069,765	4,335,327	5,209,219	4,843,997	5,364,010
September	4	3,874,973	3,380,576	3,699,397	4,147,783	4,147,885	4,297,453
October	4	4,020,265	3,726,405	3,913,046	4,312,650	4,382,057	4,446,135
November ..	5	4,418,644	3,799,030	4,668,655	4,889,500	4,975,546	5,186,240
December ...	4	2,890,998	2,662,576	3,318,762	3,306,724	3,471,673	3,698,662

Total	52	45,118,472	39,323,158	43,207,561	49,812,113	*48,531,219	51,177,962
Ton-mileage*		410,306	306,840	339,285	412,727	388,421	412,000

* Revenue freight, millions of net tons, full calendar years; 1925 estimated.

RAILWAYS.

Class I railways, carriers with annual operating revenues above \$1,000,000, representing about 90% of the total railway mileage and 96% of the total revenue. Tons are of 2,000 lbs.

Calendar year 1924:

Property investment (including material and cash) . . .	\$22,549,693,384
Average miles of line	235,497
Total operating revenue	\$5,921,490,100
Total operating expenses . .	\$4,507,845,037
Operating ratio	76.13%
Taxes	\$340,336,686
Net railway operating income	\$973,870,978
Rate of return on investment	4.32%
Number of employes	1,751,324
Aggregate compensation	\$2,826,025,230
Revenue passenger miles . . .	36,090,886,478
Revenue ton-miles	388,421,401,986
Non-revenue ton-miles	38,414,086,825
Receipts, passenger mile . . .	2.978c
Receipts per ton-mile	1.116c

In service, end of year:

Steam locomotives	65,006
Other locomotives	352
Passenger train cars	55,042
Company service cars	108,809
Freight carrying cars	2,348,676
Average capacity, tons	44.3
Caboose cars	30,371

Distribution of railway dollar, 1924:

Salaries and wages	44.3c
Locomotive fuel	7.4
Material, supplies and miscellaneous .	19.1
Loss, damage, insurance, etc.	1.8
Depreciation and retirements	3.5
Taxes	5.8
Hire of equipment and facilities	1.7
Net railway operating income	16.4
Total operating revenue	100.0c

POPULATION AND PIG IRON PER CAPITA.

Population is continental United States only, Census Bureau estimates prior to 1790, enumerations thereafter, first Monday in August through 1820; 1830 to 1900, June 1; 1910, April 15; 1920, January 1.

1610	210	1710	357,500
1620	2,499	1720	474,388
1630	5,700	1730	654,950
1640	27,947	1740	889,000
1650	51,700	1750	1,207,000
1660	84,800	1760	1,610,000
1670	114,500	1770	2,205,000
1680	155,600	1780	2,781,000
1690	213,500	1790	3,929,214
1700	275,000	1800	5,308,483

Pounds pig iron production per capita per annum, average in census, pre-census and post-census years:

	Population.	Pig per capita.
1810	7,239,881	17
1820	9,638,453	5
1830	12,866,020	29
1840	17,069,453	38
1850	23,191,876	55
1860	31,443,321	53
1870	38,558,371	98
1880	50,155,783	160
1890	62,947,714	298
1900	75,994,575	425
1910	91,972,266	624
1920	105,710,620	597

Estimated population July 1, and production per capita in same year:

	Population.	Per capita.
1921	108,370,000	344
1922	109,742,000	556
1923	111,469,000	809
1924	113,300,000	619
1925	115,000,000	714

U. S. AUTOMOBILE PRODUCTION AND REGISTRATION.

Statistics collected by the National Automobile Chamber of Commerce.

	Production.		Registration.	
	Passenger cars.	Trucks.	Passenger cars.	Trucks.
1895.	4	.....	4	.....
1896.	25	.....	16	.....
1897.	100	.....	90	.....
1898.	1,000	.....	800	.....
1899.	2,500	.....	3,200	.....
1900.	5,000	.....	8,000	.....
1901.	7,000	.....	14,800	.....
1902.	9,000	.....	23,000	.....
1903.	11,235	.....	32,920	.....
1904.	22,419	411	54,590	410
1905.	24,550	450	77,400	600
1906.	33,500	500	105,900	1,100
1907.	43,300	700	140,300	1,700
1908.	63,500	1,500	194,400	3,100
1909.	127,731	3,255	305,950	6,050
1910.	181,000	6,000	458,500	10,000
1911.	199,319	10,655	619,500	20,000
1912.	356,000	22,000	902,600	41,400
1913.	461,500	23,500	1,194,262	63,800
1914.	543,679	25,375	1,625,739	85,600
1915.	818,618	74,000	2,309,666	136,000
1916.	1,525,578	92,130	3,297,996	215,000
1917.	1,740,792	128,157	4,657,340	326,000
1918.	926,388	227,250	5,621,617	525,000
1919.	1,657,652	316,364	6,771,074	794,372
1920.	1,883,158*	322,039*	8,225,859	1,006,082
1921.	1,514,000*	147,550*	9,346,195	1,118,520
1922.	2,406,396*	252,668*	10,864,128	1,375,725
1923.	3,694,237*	392,760*	13,479,608	1,612,569
1924.	3,243,285*	374,317*	15,460,649	2,131,332
1925.	3,817,638*	496,998*	17,317,357	2,526,579

* Includes Canadian production.

NATIONAL INCOME.

Income of the people of the United States,
National Bureau of Economic Research:

	Total.	Per capita.
1909.....	\$28,800,000,000	\$319
1910.....	31,200,000,000	338
1911.....	31,100,000,000	332
1912.....	32,400,000,000	340
1913.....	33,500,000,000	344
1914.....	32,700,000,000	330
1915.....	35,900,000,000	357
1916.....	45,700,000,000	449
1917.....	54,100,000,000	525
1918.....	62,000,000,000	595

Total income in millions of dollars in current value in years stated:

	Current income.	Inventory change.	Total.
1919.....	\$67,254	—\$1,059	\$66,196
1920.....	74,158	— 1,778	72,380
1921.....	62,736	+21,691	84,427

Per capita income after inventory allowance, in current dollars and in dollars of 1913 purchasing power:

	Current.	1913.
1919	\$630	\$352
1920	680	332
1921	779	452

WEALTH.

Physical wealth of the people of the United States, inventoried by Ingalls (Wealth and Income of the American People, 1922) for end of 1916 and 1920, reduced to 1913 dollars:

1916.....	\$268,000,000,000
1920.....	272,000,000,000

Census reports of wealth:

1900.....	\$88,517,307,000
1904.....	107,104,194,000
1912.....	186,299,664,000
1922.....	320,803,862,000

COMMODITY PRICE INDEX.

Bureau of Labor index number of commodity prices at wholesale, recalculated in May, 1922, weighting commodities according to production by 1919 census. 1913 = 100.

	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. ...	100	98	98	113	153	184	190	233	170	138	156	151	160
Feb. ...	100	99	99	115	157	186	193	232	160	141	157	152	161
Mar. ...	100	98	99	119	162	187	196	234	155	142	159	150	161
Apr. ...	100	98	99	121	173	190	199	245	148	143	150	148	156
May ...	99	97	100	122	183	190	202	247	145	148	156	147	155
June ...	99	97	99	123	185	191	203	243	142	150	153	145	157
July ...	100	97	100	123	188	196	212	241	141	155	151	147	160
Aug. ...	100	101	100	126	189	200	216	231	142	155	150	150	160
Sept. ...	102	102	100	130	187	204	210	226	141	153	154	149	160
Oct. ...	101	97	102	136	183	202	211	211	142	154	153	152	158
Nov. ...	100	97	104	146	183	203	217	196	141	156	152	153	157
Dec. ...	99	97	108	149	182	202	223	179	140	156	151	157	156
Av.	100	98	101	127	177	194	206	226	147	149	154	150	158

Associated Metals & Minerals Corporation

100 East 42nd Street,

(Pershing Square Building)

New York, N. Y.

Sellers of

ORES

Manganese
Tungsten
Antimony
Chrome

ALLOYS

Ferro Manganese
Ferro Tungsten
Ferro Silicon
Ferro Chrome

METALS

Antimony (metal & crude)
Copper
Bismuth
Lead - Zinc - Tin

PIG IRON — FLUOR-SPAR

Buyers of

Non-Ferrous Ores, Concentrates
and Mattes

Zinc Residues
Zinc Dross
Zinc Ashes
Skimmings

TUNGSTEN.

United States production of tungsten. Basis, a short ton of concentrates carrying 60 per cent. of tungsten trioxide.

United States Production.

	Short tons.	Value.	Per ton.
1908.....	671	\$229,955	\$343
1909.....	1,619	614,370	379
1910.....	1,821	832,992	457
1911.....	1,139	407,985	358
1912.....	1,330	502,158	377
1913.....	1,537	672,118	438
1914.....	990	435,000	439
1915.....	2,332	4,100,000	1,760
1916.....	5,923	12,074,000	*33.98
1917.....	6,144	6,783,000	*18.40
1918.....	5,061	7,049,300	*23.24
1919.....	327	353,900	*18.02
1920.....	216	101,800	*7.86
1921.....	0	.....	.....
1922.....	0	.....	.....
1923.....	241	144,600	*10.00
1924.....	565	287,000	*8.47
1925.....	1,050	633,600	*10.00

* Per unit.

PRICES.

Tungsten ore (wolframite) in New York, per unit, averaged from daily quotations. Bolivian in 1920 and 1921; Chinese and Bolivian in 1922; "ordinary quality" thereafter.

	1920.	1921.	1922.	1923.	1924.	1925.
Jan. ...	\$8.75	\$4.00	\$1.85	\$7.65	\$8.35	\$9.00
Feb. ...	8.75	3.15	2.00	8.05	8.46	9.25
Mar. ..	8.75	2.90	2.00	8.10	8.73	10.25
Apr. ...	8.75	3.05	2.25	8.40	8.75	11.00
May ...	8.75	3.20	2.75	8.50	8.75	11.00
June ..	8.25	3.15	3.00	8.70	8.70	11.15
July ...	8.25	3.10	3.25	8.85	8.60	11.50
Aug. ...	6.35	3.10	3.50	8.47	8.43	11.65
Sept. ..	5.65	3.10	4.58	8.37	8.35	11.85
Oct. ...	5.25	3.10	7.50	8.37	8.35	11.95
Nov. ...	5.00	2.95	7.75	8.27	8.35	12.00
Dec. ...	4.65	2.95	7.85	8.22	8.35	12.25
Av.	7.26	3.15	4.02	8.33	8.51	11.07

CHINA COMMERCIAL CO.
LIMITED

40 RECTOR ST. NEW YORK

SELLERS

CHINESE TIN



MINERS

TUNGSTEN

ANTIMONY - BISMUTH
COPPER - MANGANESE

MAIN OFFICE
HONG KONG, CHINA

Branch Offices:

CANTON
NAN ON
SHANGHAI

Mines

CHIHING
YUNGYUEN
NANANFU

Phone: Bg 5521

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WORLD'S PRODUCTION OF TUNGSTEN ORE.

By metallogenic provinces and political areas, in metric tons of concentrates containing 60% of WO ₃ (tungsten trioxide). Compiled by the U. S. Geological Survey.												
	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.
Japan	257	204	389	730	763	629	574	170	0	0	0	...
China (Korea)	...	...	67	555	919	1,100	197	5	(a)	14	...	...
Chino-Malayan province:												
China	...	18	35	109	1,361	10,577	2,654	4,712	2,657	3,873	4,554	3,398
Tonkin	127	163	333	343	433	378	284	284	452	112	129	150
Burma & Shan States	1,572	2,166	2,464	3,464	4,266	4,138	3,623	2,983	673	1,038	960	814
Siam	280	273	432	530	726	231	258	137	76	0	(a)	0
Unfed. Malay States	114	172	159	317	334	1,156	808	296	12	258	393	214
Fed. Malay States	248	288	329	567	837	391	480	257	60	104	41	107
Dutch East Indies	6	1	6	47	8	7	0	161	0	...	...	...
Indian province:												
India (excl. Burma)	...	...	...	46	68	44	1	0	0	0	0	...
Total Asia	2,604	3,284	4,214	6,708	9,675	18,651	8,879	9,005	3,930	5,399	6,077	4,683
Australian province:												
Queensland	533	401	642	519	471	357	344	119	5	4	0	1
Northern Territory	32	45	36	137	252	280	278	245	0	19	0	0
New South Wales	200	221	99	313	268	279	237	39	0	0	2	10
Victoria	1	...	...	17	28	5	3	9	...	...	...	...
South Australia	...	...	...	(a)	(a)	0	0	0	0	0	0	0
Tasmania	81	56	112	126	286	440	379	209	12	21	116	64
Western Australia	1	1	...	5	1	6	8	3	...	...	...	...
Total Australia	848	724	889	1,117	1,306	1,367	1,249	624	17	44	118	75
New Zealand	262	242	230	306	235	170	146	47	46	0	6	4
Cordilleran prov.: Chile	...	...	...	2	0	0	0	0	0	0	0	0
Argentina	575	437	169	854	1,085	614	204	182	52	125	144	137

(Continued on next page)

(Continued on next page)

A. C. DAFT

OLIVER BUILDING
PITTSBURGH, PA.

Ferro Tungsten

70 - 80%

98% Tungsten Metal
Powder

Shot Nickel

Cobalt Metal

Tungsten Ore

Chrome Ore

Straits Tin

WORLD'S PRODUCTION OF TUNGSTEN ORE (Continued)

	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.
Bolivia	297	290	859	3,288	4,215	3,703	2,161	766	174	9	0	18
Peru	324	213	413	532	427	256	139	77	2	0	0	...
Brazilian prov.; Brazil	...	...	...	5	...	...	...	...	...	...	...	...
Total So. America	1,196	940	1,441	4,681	5,727	4,573	2,504	1,025	228	134	144	155
S. W. American prov.:												
Mexico	...	...	140	159	308	239	103	82	37	0	0	0
United States	...	898	2,116	5,330	5,545	4,578	297	196	0	0	219	513
Alaskan prov.; Alaska.	...	...	...	43	29	13	0	0	0	0	0	...
Canada'n prov. S. E. Can.	11	...	...	...	15	0	0	0	0	0	0	0
Total No. America	1,405	898	2,256	5,532	5,882	4,845	400	278	37	0	219	513
Scandinavian prov. Norway	3	5	...	1	1	2	0	0	0	0	0	0
Sweden	...	...	...	0	0	3	30	5	0	0	0	0
Frango-Cornish province:												
England	197	222	360	407	255	307	177	83	...	3	2	2
France	160	145	126	162	261	45	70	23	...	...	...	...
Iberian prov. Portugal	1,126	667	953	1,418	1,580	1,150	706	237	306	527	289	304
Spain	169	135	189	425	446	534	302	57	25	0	9	200
Italy	...	...	...	5	1	...	...	...	7	0	1	...
Erzgebirgian prov.; Ger.	96	116	83	115	295	196	145	45	27	40	no data	...
Cze'kia (Austria to 1918)	52	57	14	51	(b)	...	70	48	35	28	28	66
Russian prov.; Russia	...	...	...	34	104	...	...	...	...	no data	...	...
Total Europe	1,803	1,347	1,725	2,618	2,943	2,237	1,500	498	400	598	329	572
So. African province:												
Southern Rhodesia ..	...	...	...	2	11	37	20	17	17	44	0	24
Union of South Africa	...	...	...	2	18	37	9	0	0	0	0	0
Nigeria	...	...	...	...	...	no data	32	...	...	no data	...	...
Total Africa	5	1	4	...	29	74	61	17	17	44	...	24
Grand Totals	8,123	7,435	10,756	20,966	25,797	31,917	14,739	11,494	4,675	6,219	6,893	6,026

(a) Less than ¼ ton. (b) 93,136 tons of ore mined, WO3 content unknown.

TUNGSTEN ORE IMPORTS.

Imports of tungsten-bearing ores (wolframite, scheelite, ferberite, hubnerite, stolzite, raspite) gross tons and value.

	1916.	1917.	1918.	1919.	1920.	1921.	1922.
Portugal, tons ...	149.	107	24	.....	.....	.....	.....
Value	\$212,685	\$105,830	\$17,760	.....	.....	.....	.....
Argentina, tons ..	570	192	479	130	77	51	.....
Value	\$1,442,569	\$244,793	\$730,722	\$111,489	\$64,284	\$11,588	.....
Chile, tons	1,055	1,723	1,116	880	130	148	.....
Value	\$2,750,364	\$1,808,853	\$1,209,864	\$685,414	\$74,006	\$36,389	3
Peru, tons	1,005	1,071	1,631	385	41	7	.....
Value	\$1,475,375	\$1,126,593	\$1,488,516	\$299,101	\$18,765	\$3,428	.....
China, tons .....	.....	.....	.....	2,508	375	704	344
Value .....	.....	.....	.....	\$1,624,539	\$142,572	\$106,059	\$57,364
Hongkong, tons ..	.....	.....	.....	3,039	767	284	10
Value .....	.....	.....	.....	\$2,249,011	\$276,842	\$72,499	\$1,601
Japan, tons	532	538	1,215	756	114	0	70
Value	\$1,041,570	\$622,691	\$1,700,332	\$856,017	\$98,723	.....	\$11,655
Other countries, tons	324	726	5,900	702	236	247	1,228
Value	\$431,128	\$558,848	\$6,266,220	\$435,619	\$103,501	\$46,794	\$207,562
Total tons	3,635	4,357	10,365	8,400	1,740	1,441	1,655
Total value	\$7,353,691	\$4,467,608	\$11,413,414	\$6,261,190	\$779,593	\$276,757	\$279,100

* Includes England, 540 tons, \$101,209; Germany, 319 tons, \$67,406; Quebec and Ontario, 184 tons, \$1,007.
No imports in 1923 or 1924. Imports, 1925, 854,059 lbs. tungsten content; average value, 24.2 cents.

PORTLAND CEMENT.

Production of Portland cement in barrels (about 380 lbs.) and average factory price per barrel of shipments.

1880	42,000	\$3.00
1885	150,000	1.95
1890	335,500	2.09
1895	990,324	1.60
1900	8,482,020	1.09
1901	12,711,225	.99
1902	17,230,644	1.21
1903	22,342,973	1.24
1904	26,505,881	.88
1905	35,246,812	.94
1906	46,463,424	1.13
1907	48,785,390	1.11
1908	51,072,612	.85
1909	64,991,431	.81
1910	76,549,951	.89
1911	78,528,637	.84
1912	82,438,096	.81
1913	92,097,131	1.01
1914	88,230,170	.93
1915	85,914,907	.86
1916	91,521,198	1.10
1917	92,814,202	1.35
1918	71,081,663	1.60
1919	80,777,935	1.71
1920	100,023,245	2.02
1921	98,842,049	1.89
1922	114,789,984	1.76
1923	137,460,238	1.90
1924	149,358,109	1.81
1925 (preliminary)	161,202,000	...

Shipments.

1921	95,507,147
1922	117,701,216
1923	135,912,118
1924	146,047,519
1925 (preliminary)	156,724,000
Stocks, January 1, 1926	18,365,000

FLUOR SPAR

WASHED GRAVEL

LUMP

ALL GRADES

GROUND

**FOR CERAMIC, ACID
AND OTHER USES**

DEPENDABLE SUPPLY

RELIABLE GRADING



From Mines - C. L. in bulk, L. C. L. in bags
Warehouse Stocks - in 125 lb. bags
Chicago, Cleveland, St. Louis

HILLSIDE FLUOR SPAR MINES

General Offices

**38 South Dearborn St., Chicago
Mines on Illinois Central R. R.
Tracks Rosiclare, Illinois**

FLUORSPAR.

Fluorspar shipped, net tons and average value per ton:

	1922		1923		1924	
	Tons.	Value.	Tons.	Value.	Tons.	Value.
Illinois	55	\$17.81	64,700	\$22.04	62,067	\$20.76
Kentucky	52,484	18.48	45,441	20.81	47,847	20.67
Colorado	2,309	8.73	5,000	9.80	15,000	11.78
New Mexico	2,180	14.22	3,800	10.74	*	....
New Hampshire and Utah	768	21.82	330	19.26	*	....
Total	141,596	\$17.88	119,271	\$20.69	124,914	\$19.65

* Included with Colorado.

Fluorspar shipped by uses, net tons and average value per ton:

	1922		1923		1924	
	Tons.	Value.	Tons.	Value.	Tons.	Value.
Steel	122,403	\$16.24	95,733	\$18.30	104,284	\$17.76
Foundry	2,998	19.02	3,206	22.25	7,138	22.35
Glass, enamel, etc.	8,904	36.29	10,718	36.20	9,565	35.05
Hydrofluoric acid	4,782	24.81	6,631	29.17	3,150	28.39
Miscellaneous	213	18.02	1,839	20.85	160	21.13
Exported	2,296	17.84	1,144	22.13	14,489	23.48
Total	141,596	\$17.88	119,271	\$20.69	124,914	\$19.65

Imports, chiefly from England: 1922, 33,108 tons; 1923, 42,226 tons; 1924, 51,043 tons.

THE NASSAU Smelting & Refining Works, Ltd.

Cable Address
NASHNAS, N. Y.

Telephone
8700 CHICKERING

605 West 29th St., New York City

Manufacturers of

BABBITT AND TYPE METALS
SOLDERS
INGOT BRASS AND BRONZE
HIGH GRADE SPELTER

Dealers in

COPPER, SPELTER, LEAD, TIN
ALUMINUM, ANTIMONY
and other non-ferrous ingot
and pig metals

Purchasers and Refiners of

LEAD, TIN AND SOLDER DROSSES
METALLIC OXIDE, RESIDUES
and all copper bearing materials

METAL DUTIES.

A partial list of metal duties according to the Fordney-McCumber tariff, effective Sept. 22, 1922.

ALUMINUM.

Aluminum alloys, crude and scrap 5c per lb.
Plates, sheets, bars and rods 9c per lb.
Articles or wares 11c per lb. and 55 per cent.

ANTIMONY.

Ore Free
Metal and regulus 2c per lb.

BISMUTH.

Metal $7\frac{1}{2}$ per cent.
Salts and compounds 35 per cent.

COPPER.

Ore, matte, bars, ingots, pigs, regulus,
plates, clippings from new copper,
scrap and composition with copper
chief value Free
Rolls, rods or sheets $2\frac{1}{2}$ c per lb.
Seamless tubes and tubing 7c per lb.
Plain wire 25 per cent.
Tacks, brads and staples .. Six-tenths of 1c per lb.
Brazen tubes 11c per lb.

LEAD.

Ore, on lead contained $1\frac{1}{4}$ c per lb.
In pigs, bars, dross, reclaimed lead,
scrap lead, antimonial lead, anti-
monial scrap lead, type metal, Bab-
bitt metal, solder and alloys not
specially provided for, on lead therein $2\frac{1}{4}$ c per lb.
Sheets, pipe, shot and wire $2\frac{3}{8}$ c per lb.

NICKEL.

Ore or matte Free
Alloys, pigs, ingots, shot and cubes 3c per lb.
Bars, rods, plates, sheets, strips, wire,
tubes and tubing 25 per cent.
(If cold rolled, drawn or worked, additional
duty 10 per cent.)

Oxide 1c per lb.

ZINC.

Zinc-bearing ore, on zinc therein:
Less than 10 per cent, Free; 10 per cent. to less
than 20 per cent., $\frac{1}{2}$ c per lb.; 20 per cent. to less
than 25 per cent., 1c per lb.; 25 per cent. or
more $1\frac{1}{2}$ c per lb.
Slabs, blocks, pigs, and zinc dust $1\frac{1}{4}$ c per lb.
Sheets 2c per lb.
Old, fit only for remanufacture $1\frac{1}{2}$ c per lb.
Oxide $1\frac{1}{4}$ c per lb.

QUICKSILVER. 25c per lb.

PLATINUM.

Unmanufactured or in ingots, bars,
sheets or plates and scrap Free

TIN.

Ore, bars, blocks, pigs, cassiterite,
black oxide, dross, and scrap Free

GARDINER METAL CO.

MANUFACTURERS OF

QUALITY METALS



LEAD PIPE
SHEET LEAD
LEAD TRAPS
CAME LEAD
PIG LEAD
TIN

SOLDER OF ALL KINDS

(MONROE 5228-5229)

STEREOTYPE
MONOTYPE
LINOTYPE
ELECTROTYPE
TYPE

BABBITT METALS AND
SPECIAL MIXTURES
TIN FOIL

1356-64 WEST LAKE ST.

CHICAGO

DAILY PRICES OF METALS IN 1925

— NEW YORK — ST. LOUIS.

	Electro. Copper	Straits Tin	Anti- mony	Alumi- num	Silver	Lead	Zinc (Spelter)
January							
2 ..	14.80	59.87½	18.00	27.00	67	10.15	7.82½
5 ..	14.95	60.50	18.00	27.00	68½	10.30	7.85
6 ..	14.90	60.00	18.00	27.00	68½	10.25	7.85
7 ..	14.90	60.12½	18.25	27.00	67¾	10.25	7.83½
8 ..	14.81¼	59.50	17.68¾	27.00	67¾	10.35	7.80
9 ..	14.81¼	59.50	17.62½	27.00	68½	10.50	7.85
12 ..	15.05	59.50	17.50	27.00	69¾	10.65	7.90
13 ..	14.95	58.75	17.75	27.00	68¾	10.70	7.87½
14 ..	14.85	58.50	17.75	27.00	68½	10.72½	7.92½
15 ..	14.85	58.25	17.50	27.00	68½	10.72½	7.90
16 ..	14.80	57.00	17.37½	27.00	68½	10.65	7.80
19 ..	14.80	57.00	17.37½	27.00	68¾	10.37½	7.82½
20 ..	14.75	56.00	17.00	27.00	68¾	10.31¼	7.77½
21 ..	14.65	56.00	16.75	27.00	68¾	9.75	7.62½
22 ..	14.65	56.50	16.75	27.00	68½	9.75	7.65
23 ..	14.75	57.62½	16.75	27.00	68¾	9.75	7.62½
26 ..	14.75	57.75	16.75	27.00	68¾	9.75	7.65
27 ..	14.70	57.25	16.75	27.00	68¾	9.75	7.65
28 ..	14.65	57.87½	16.75	27.00	68¾	9.75	7.65
29 ..	14.65	58.00	16.75	27.00	69	9.68¾	7.62½
30 ..	14.60	57.37½	16.87½	27.00	68¾	9.55	7.52½
February							
2 ..	14.45	56.75	18.25	27.00	68¾	9.42½	7.40
3 ..	14.30	56.75	18.75	27.00	68¾	9.42½	7.33¾
4 ..	14.45	57.12½	18.75	27.00	68¾	9.37½	7.37½
5 ..	14.70	57.62½	19.00	27.00	68¾	9.42½	7.50
6 ..	14.75	57.12½	19.12½	27.00	68½	9.42½	7.60
9 ..	14.75	56.87½	19.75	27.00	68½	9.35	7.61¾
10 ..	14.70	57.25	21.25	27.00	68¾	9.30	7.55
11 ..	14.65	57.37½	22.00	27.00	68½	9.30	7.45
13 ..	14.65	57.75	22.00	27.00	68¾	9.22½	7.51¾
16 ..	14.60	57.50	21.25	27.00	68¾	9.15	7.60
17 ..	14.50	57.12½	21.25	27.00	68¾	9.15	7.52½
18 ..	14.40	57.00	21.00	27.00	68¾	9.02½	7.50
19 ..	14.45	57.00	20.75	27.00	68¾	9.00	7.55
20 ..	14.50	57.12½	20.00	27.00	68¾	8.97½	7.60
24 ..	14.50	57.00	19.25	27.00	68½	8.95	7.56¾
25 ..	14.50	57.00	19.00	27.00	68¾	8.95	7.55
26 ..	14.45	56.75	18.25	27.00	68¾	8.87½	7.50
27 ..	14.40	56.30	18.00	27.00	68¾	8.82½	7.42½

DAILY PRICES OF METALS IN 1925

— NEW YORK — ST. LOUIS.

	Electro. Copper	Straits Tin	Anti- mony	Alumi- num	Silver	Lead	Zinc (Spelter)
March							
2 ..	14.35	54.62½	17.62½	27.00	68¾	8.80	7.25
3 ..	14.40	55.00	17.50	27.00	68¾	8.70	7.37½
4 ..	14.45	55.25	17.00	27.00	68¾	8.70	7.45
5 ..	14.55	54.62½	17.00	27.00	68¾	8.70	7.48¾
6 ..	14.50	53.87½	16.50	27.00	68	8.72½	7.48¾
9 ..	14.45	53.50	16.25	27.00	68¾	8.72½	7.50
10 ..	14.35	53.37½	16.25	27.00	68¾	8.72½	7.35
11 ..	14.35	53.37½	16.25	27.00	68¾	8.72½	7.27½
12 ..	14.30	54.12½	16.00	27.00	67¾	8.75	7.40
13 ..	14.30	54.50	16.00	27.00	68	8.70	7.45
16 ..	14.30	53.37½	15.75	27.00	68	8.70	7.42½
17 ..	14.18¾	53.00	15.25	27.00	68¾	8.66¾	7.32½
18 ..	14.15	52.87½	15.25	27.00	68	8.65	7.30
19 ..	14.10	53.12½	15.00	27.00	68	8.58¾	7.30
20 ..	14.18¾	54.25	14.50	27.00	67¾	8.60	7.35
23 ..	14.18¾	53.25	14.43¾	27.00	67¾	8.60	7.38¾
24 ..	14.18¾	53.62½	14.25	27.00	67¾	8.55	7.35
25 ..	14.00	53.87½	14.00	27.00	67¾	8.55	7.35
26 ..	13.90	54.25	14.00	27.00	67¾	8.42½	7.32½
27 ..	13.70	53.37½	14.00	27.00	67¾	8.32½	7.22½
30 ..	13.45	52.12½	14.00	27.00	67¾	8.11¾	7.07½
31 ..	13.40	52.37½	14.00	27.00	67¾	8.10	7.00
April							
1 ..	13.60	52.62½	14.00	27.00	66¾	8.05	7.12½
2 ..	13.45	51.75	13.87½	27.00	66¾	8.00	7.05
3 ..	13.45	51.50	13.87½	27.00	66¾	8.00	7.07½
6 ..	13.40	50.50	13.82½	27.00	67½	7.95	7.10
7 ..	13.40	51.12½	13.82½	27.00	66¾	7.85	7.10
8 ..	13.55	51.12½	13.93¾	27.00	66¾	7.85	7.15
9 ..	13.55	50.25	13.87½	27.00	66¾	7.80	7.15
13 ..	13.55	50.50	13.50	27.00	67¾	7.75	7.10
14 ..	13.50	50.00	13.50	27.00	67¾	7.71¾	7.06¾
15 ..	13.40	50.50	12.00	27.00	67½	7.65	7.00
16 ..	13.30	50.62½	11.81¾	27.00	66¾	7.60	6.95
17 ..	13.15	51.50	11.93¾	27.00	66¾	7.50	6.82½
20 ..	13.20	51.25	11.87½	27.00	66¾	7.40	6.85
21 ..	13.30	52.37½	11.87½	27.00	67	7.32½	6.82½
22 ..	13.30	52.75	11.25	27.00	66¾	7.30	6.85
23 ..	13.35	53.62½	11.00	27.00	66½	7.40	6.95
24 ..	13.60	54.00	11.00	27.00	66½	7.50	7.05
27 ..	13.60	54.50	11.00	27.00	66¾	7.60	7.00
28 ..	13.60	55.25	11.12½	27.00	67	7.60	6.95
29 ..	13.60	56.00	11.50	27.00	67	7.60	6.95
30 ..	13.55	54.75	11.62½	27.00	67¾	7.55	6.87½

DAILY PRICES OF METALS IN 1925

— NEW YORK —

ST. LOUIS.

	Electro. Copper	Straits Tin	Anti- mony	Alumi- num	Silver	Lead	Zinc (Spelter)
May							
1 ..	13.45	53.37½	12.37½	27.00	67½	7.40	6.77½
4 ..	13.45	54.00	12.37½	27.00	67½	7.45	6.90
5 ..	13.50	54.75	13.37½	27.00	67¾	7.47½	6.90
6 ..	13.47½	54.12½	15.12½	27.00	67¾	7.50	6.92½
7 ..	13.47½	53.87½	16.75	27.00	67¾	7.50	6.90
8 ..	13.47½	53.87½	17.50	27.00	67¾	7.57½	6.87½
11 ..	13.55	54.50	17.50	27.00	67¾	7.62½	6.95
12 ..	13.52½	54.50	17.50	27.00	67½	7.65	7.00
13 ..	13.50	54.50	17.50	27.00	67¾	7.70	6.95
14 ..	13.50	54.50	17.25	27.00	67½	7.80	6.92½
15 ..	13.50	54.25	17.25	27.00	67½	7.80	6.90
18 ..	13.50	54.37½	17.00	27.00	67¼	7.85	6.92½
19 ..	13.50	54.37½	17.00	27.00	67½	7.90	6.90
20 ..	13.50	54.87½	17.00	27.00	67¼	8.07½	6.91¾
21 ..	13.50	55.25	16.50	27.00	67¼	8.20	6.95
22 ..	13.50	55.12½	16.50	27.00	67¾	8.40	7.00
25 ..	13.50	55.25	16.75	27.00	67¾	8.50	7.05
26 ..	13.50	55.62½	17.25	27.00	67¾	8.50	7.10
27 ..	13.50	56.25	17.12½	27.00	67¾	8.50	7.10
28 ..	13.50	55.37½	17.12½	27.00	67¾	8.50	7.10
29 ..	13.50	55.37½	17.00	27.00	68	8.50	7.08¾
June							
1 ..	13.50	55.50	16.75	27.00	68½	8.55	7.07½
2 ..	13.50	55.00	16.50	27.00	68¾	8.55	7.01¾
3 ..	13.45	54.87½	16.50	27.00	68¾	8.55	6.98¾
4 ..	13.45	55.37½	16.00	27.00	68½	8.50	7.00
5 ..	13.45	56.12½	16.50	27.00	68½	8.50	7.06¾
8 ..	13.40	55.75	16.50	27.00	68¼	8.40	7.05
9 ..	13.30	55.50	16.50	27.00	68½	8.35	6.97½
10 ..	13.32½	55.50	16.50	27.00	68¾	8.25	7.00
11 ..	13.30	55.25	16.75	27.00	68¾	8.15	6.97½
12 ..	13.40	55.00	17.00	27.00	68¼	8.07½	6.95
15 ..	13.50	56.12½	16.68¾	27.00	68¾	8.00	7.05
16 ..	13.60	56.37½	16.68¾	27.00	69¾	8.00	7.00
17 ..	13.60	56.00	16.68¾	27.00	68¼	8.00	6.98¾
18 ..	13.60	56.12½	16.56¼	27.00	68¼	8.00	6.95
19 ..	13.55	56.12½	16.75	27.00	68¾	7.95	6.95
22 ..	13.50	56.12½	16.75	27.00	69¾	7.90	6.97½
23 ..	13.50	56.50	16.75	27.00	70	7.90	7.00
24 ..	13.45	56.37½	16.50	27.00	70	7.85	7.00
25 ..	13.45	56.12½	16.37½	27.00	70¾	7.85	6.97½
26 ..	13.40	56.25	16.37½	27.00	70½	7.85	7.00
29 ..	13.55	57.12½	16.75	27.00	70¼	7.75	7.01¾
30 ..	13.55	57.12½	17.00	27.00	69¼	7.67½	6.95

DAILY PRICES OF METALS IN 1925

— NEW YORK — ST. LOUIS.

	Electro. Copper	Straits Tin	Anti- mony	Alumi- num	Silver	Lead	Zinc (Spelter)
July							
1 ..	13.65	57.25	17.00	27.00	69½	7.67½	7.01¾
2 ..	13.75	57.25	17.75	27.00	69¾	7.70	7.03¾
3 ..	13.85	57.25	18.00	27.00	69¾	7.72½	7.05
6 ..	13.80	57.37½	18.50	27.00	68¾	7.82½	7.08¾
7 ..	13.80	57.50	19.00	27.00	69¾	7.95	7.12½
8 ..	13.90	57.75	19.00	27.00	69½	8.02½	7.15
9 ..	14.00	57.87½	19.00	27.00	69¾	8.05	7.18¾
10 ..	14.00	57.50	19.50	27.00	69¾	8.05	7.17½
13 ..	14.00	57.75	19.50	27.00	69¾	8.05	7.17½
14 ..	14.05	58.37½	19.50	27.00	69½	8.05	7.20
15 ..	14.15	58.00	17.12½	27.00	69½	8.05	7.20
16 ..	14.20	57.87½	16.87½	27.00	69½	8.05	7.17½
17 ..	14.25	58.37½	16.56¾	27.00	69¾	8.02½	7.21¾
20 ..	14.25	58.62½	16.50	27.00	69½	8.10	7.26¾
21 ..	14.25	58.50	16.50	27.00	69½	8.07½	7.27½
22 ..	14.25	59.00	16.75	27.00	69½	8.17½	7.33¾
23 ..	14.25	58.75	16.75	27.00	69½	8.27½	7.32½
24 ..	14.20	58.00	16.81¾	27.00	69½	8.27½	7.27½
27 ..	14.15	57.75	17.00	27.00	69½	8.30	7.26¾
28 ..	14.15	58.37½	17.25	27.00	69¾	8.32½	7.30
29 ..	14.15	58.75	17.50	27.00	69½	8.42½	7.37½
30 ..	14.20	58.50	17.50	27.00	69½	8.50	7.35
31 ..	14.25	59.37½	17.56¾	27.00	69½	8.70	7.40
August							
3 ..	14.30	59.12½	17.75	27.00	69½	8.90	7.42¾
4 ..	14.42½	59.25	17.75	27.00	69½	9.05	7.52½
5 ..	14.52½	59.37½	18.00	27.00	69¾	9.35	7.55
6 ..	14.52½	59.37½	18.25	27.00	69½	9.50	7.57½
7 ..	14.52½	59.25	18.25	27.00	69½	9.60	7.60
10 ..	14.57½	59.00	18.18¾	27.00	69¾	9.60	7.57½
11 ..	14.57½	58.75	18.18¾	27.00	69¾	9.65	7.57½
12 ..	14.47½	58.12½	18.06¾	27.00	69¾	9.67½	7.55
13 ..	14.50	58.00	18.00	27.00	69¾	9.70	7.50
14 ..	14.55	58.25	17.75	27.00	69¾	10.00	7.57½
17 ..	14.60	57.80	17.68¾	27.00	70¾	10.00	7.65
18 ..	14.60	57.62½	17.56¾	27.00	70¾	10.00	7.62½
19 ..	14.65	57.75	17.50	27.00	70½	9.95	7.60
20 ..	14.70	57.75	17.50	27.00	70¾	10.00	7.65
21 ..	14.75	58.00	17.50	27.00	70¾	10.00	7.65
24 ..	14.75	57.87½	17.25	27.00	70½	10.00	7.66¾
25 ..	14.70	57.75	17.06¾	27.00	70¾	10.00	7.63¾
26 ..	14.60	57.50	17.00	27.00	70¾	10.00	7.63¾
27 ..	14.55	57.25	17.00	27.00	71¾	10.00	7.61¾
28 ..	14.55	57.25	17.00	27.00	70¾	9.90	7.58¾
31 ..	14.50	56.75	17.00	27.00	71¾	9.75	7.61¾

DAILY PRICES OF METALS IN 1925

— NEW YORK — ST. LOUIS.

	Electro. Copper	Straits Tin	Anti- mony	Alumi- num	Silver	Lead	Zinc (Spelter)
September							
1 ..	14.45	56.50	16.75	27.00	71 $\frac{3}{8}$	9.75	7.57 $\frac{1}{2}$
2 ..	14.50	56.50	16.75	27.00	71 $\frac{3}{8}$	9.70	7.60
3 ..	14.55	57.00	17.00	27.00	72 $\frac{3}{8}$	9.62 $\frac{1}{2}$	7.62 $\frac{1}{2}$
4 ..	14.60	57.75	17.12 $\frac{1}{2}$	27.00	72 $\frac{3}{8}$	9.37 $\frac{1}{2}$	7.67 $\frac{1}{2}$
8 ..	14.55	57.75	17.06 $\frac{1}{4}$	27.00	72	9.25	7.72 $\frac{1}{2}$
9 ..	14.50	57.25	17.00	27.00	72	9.25	7.72 $\frac{1}{2}$
10 ..	14.50	57.75	17.00	27.00	72	9.25	7.72 $\frac{1}{2}$
11 ..	14.55	58.25	17.00	27.00	72 $\frac{3}{8}$	9.30	7.75
14 ..	14.60	58.35	17.00	27.00	71 $\frac{3}{8}$	9.25	7.75
15 ..	14.60	58.50	17.00	27.00	71	9.25	7.75
16 ..	14.60	59.00	17.00	27.00	70 $\frac{3}{4}$	9.25	7.75
17 ..	14.52 $\frac{1}{2}$	59.00	17.00	27.00	70 $\frac{3}{8}$	9.25	7.73 $\frac{1}{4}$
18 ..	14.45	58.75	16.93 $\frac{1}{4}$	27.00	70 $\frac{3}{4}$	9.30	7.80
21 ..	14.55	58.87 $\frac{1}{2}$	17.00	27.00	72	9.40	7.85
22 ..	14.50	58.50	17.12 $\frac{1}{2}$	27.00	71 $\frac{3}{4}$	9.40	7.85
23 ..	14.40	58.87 $\frac{1}{2}$	17.18 $\frac{1}{4}$	27.00	72 $\frac{3}{4}$	9.40	7.87 $\frac{1}{2}$
24 ..	14.30	58.75	17.25	27.00	71 $\frac{3}{4}$	9.40	7.87 $\frac{1}{2}$
25 ..	14.25	58.50	17.25	27.00	71 $\frac{3}{4}$	9.40	7.87 $\frac{1}{2}$
28 ..	14.25	58.87 $\frac{1}{2}$	17.25	27.00	71 $\frac{3}{4}$	9.35	7.85
29 ..	14.20	59.00	17.25	27.00	70 $\frac{3}{8}$	9.37 $\frac{1}{2}$	7.83 $\frac{1}{4}$
30 ..	14.25	59.87 $\frac{1}{2}$	17.25	27.00	71	9.40	7.87 $\frac{1}{2}$
October							
1 ..	14.30	60.37 $\frac{1}{2}$	17.25	27.00	71 $\frac{3}{8}$	9.40	7.91 $\frac{1}{4}$
2 ..	14.35	60.25	17.25	27.00	70 $\frac{3}{8}$	9.40	7.96 $\frac{1}{4}$
5 ..	14.30	60.00	17.25	27.00	70 $\frac{3}{8}$	9.42 $\frac{1}{2}$	8.01 $\frac{1}{4}$
6 ..	14.25	60.50	17.25	27.00	70 $\frac{3}{8}$	9.42 $\frac{1}{2}$	8.05
7 ..	14.27 $\frac{1}{2}$	60.87 $\frac{1}{2}$	17.25	27.00	71 $\frac{1}{4}$	9.42 $\frac{1}{2}$	8.05
8 ..	14.30	60.87 $\frac{1}{2}$	17.25	27.00	70 $\frac{3}{8}$	9.42 $\frac{1}{2}$	8.05
9 ..	14.40	61.75	17.25	27.00	71	9.42 $\frac{1}{2}$	8.13 $\frac{1}{4}$
13 ..	14.50	62.12 $\frac{1}{2}$	17.25	27.00	71 $\frac{1}{2}$	9.42 $\frac{1}{2}$	8.22 $\frac{1}{2}$
14 ..	14.50	62.50	17.25	27.00	71 $\frac{3}{4}$	9.41 $\frac{1}{4}$	8.30
15 ..	14.40	62.75	17.25	27.00	71 $\frac{3}{8}$	9.41 $\frac{1}{4}$	8.30
16 ..	14.40	62.00	17.25	27.00	71 $\frac{3}{8}$	9.41 $\frac{1}{4}$	8.30
19 ..	14.40	62.50	17.25	27.00	71 $\frac{3}{4}$	9.45	8.35
20 ..	14.37 $\frac{1}{2}$	62.50	17.87 $\frac{1}{2}$	27.00	71 $\frac{3}{8}$	9.45	8.35
21 ..	14.35	62.62 $\frac{1}{2}$	18.00	27.00	71 $\frac{3}{4}$	9.45	8.42 $\frac{1}{2}$
22 ..	14.45	63.62 $\frac{1}{2}$	18.50	27.00	71 $\frac{1}{2}$	9.45	8.60
23 ..	14.50	64.12 $\frac{1}{2}$	18.87 $\frac{1}{4}$	27.00	71 $\frac{1}{2}$	9.45	8.65
26 ..	14.55	63.00	19.12 $\frac{1}{2}$	28.00	71 $\frac{3}{8}$	9.45	8.65
27 ..	14.60	63.50	19.37 $\frac{1}{2}$	28.00	71 $\frac{3}{8}$	9.45	8.65
28 ..	14.50	63.12 $\frac{1}{2}$	19.50	28.00	71 $\frac{3}{4}$	9.50	8.60
29 ..	14.50	63.87 $\frac{1}{2}$	19.50	28.00	71	9.50	8.65
30 ..	14.62 $\frac{1}{2}$	64.00	19.75	28.00	70 $\frac{3}{4}$	9.50	8.70

DAILY PRICES OF METALS IN 1925

— NEW YORK — ST. LOUIS.

	Electro- Copper	Straits Tin	Anti- mony	Alumi- num	Silver	Lead	Zinc (Spelter)
November							
2 ..	14.65	63.50	20.00	28.00	69 $\frac{3}{4}$	9.65	8.82 $\frac{1}{2}$
4 ..	14.67 $\frac{1}{2}$	62.75	20.00	28.00	69 $\frac{3}{8}$	9.75	8.90
5 ..	14.67 $\frac{1}{2}$	63.12 $\frac{1}{2}$	20.00	28.00	69 $\frac{1}{2}$	9.75	8.90
6 ..	14.67 $\frac{1}{2}$	62.87 $\frac{1}{2}$	20.00	28.00	69 $\frac{3}{8}$	9.75	8.90
9 ..	14.67 $\frac{1}{2}$	62.12 $\frac{1}{2}$	20.00	28.00	69 $\frac{1}{2}$	9.75	8.82 $\frac{1}{2}$
10 ..	14.67 $\frac{1}{2}$	62.37 $\frac{1}{2}$	20.00	28.00	69 $\frac{1}{2}$	9.67 $\frac{1}{2}$	8.80
11 ..	14.60	62.62 $\frac{1}{2}$	19.75	28.00	69 $\frac{1}{4}$	9.68 $\frac{3}{4}$	8.80
12 ..	14.60	64.50	19.50	28.00	69 $\frac{1}{2}$	9.65	8.60
13 ..	14.60	64.25	19.50	28.00	69 $\frac{1}{4}$	9.62 $\frac{1}{2}$	8.50
16 ..	14.55	64.00	19.50	28.00	68 $\frac{3}{4}$	9.65	8.50
17 ..	14.50	63.50	19.75	28.00	68 $\frac{3}{4}$	9.65	8.47 $\frac{1}{2}$
18 ..	14.50	63.75	19.75	28.00	68 $\frac{3}{4}$	9.57 $\frac{1}{4}$	8.50
19 ..	14.40	63.50	19.93 $\frac{3}{4}$	28.00	69 $\frac{1}{4}$	9.57 $\frac{1}{2}$	8.60
20 ..	14.35	63.50	20.00	28.00	69	9.50	8.65
23 ..	14.30	63.37 $\frac{1}{2}$	20.00	28.00	69 $\frac{1}{4}$	9.57 $\frac{1}{2}$	8.72 $\frac{1}{2}$
24 ..	14.25	62.50	19.75	28.00	69 $\frac{1}{4}$	9.55	8.85
25 ..	14.15	62.75	19.75	28.00	69 $\frac{1}{4}$	9.55	8.85
27 ..	14.15	63.12 $\frac{1}{2}$	19.62 $\frac{1}{2}$	28.00	69 $\frac{1}{4}$	9.55	8.80
30 ..	14.15	64.00	19.93 $\frac{3}{4}$	28.00	69 $\frac{1}{4}$	9.37 $\frac{1}{2}$	8.77 $\frac{1}{2}$

December							
1 ..	14.15	63.75	20.00	28.00	69 $\frac{1}{4}$	9.35	8.70
2 ..	14.00	63.25	20.12 $\frac{1}{2}$	28.00	69 $\frac{1}{4}$	9.35	8.50
3 ..	13.90	62.75	20.25	28.00	69 $\frac{1}{4}$	9.35	8.57 $\frac{1}{2}$
4 ..	14.00	63.75	20.25	28.00	69 $\frac{3}{8}$	9.35	8.70
7 ..	14.00	63.50	20.25	28.00	69 $\frac{1}{4}$	9.35	8.80
8 ..	14.00	63.50	20.50	28.00	69 $\frac{1}{4}$	9.15	8.80
9 ..	13.95	63.50	20.75	28.00	69 $\frac{1}{4}$	9.15	8.75
10 ..	13.95	63.12 $\frac{1}{2}$	21.00	28.00	69 $\frac{1}{4}$	9.15	8.75
11 ..	13.95	63.00	21.12 $\frac{1}{2}$	28.00	69 $\frac{1}{4}$	9.15	8.75
14 ..	13.85	62.12 $\frac{1}{2}$	22.00	28.00	69	9.10	8.75
15 ..	13.85	61.25	22.00	28.00	68 $\frac{3}{4}$	9.07 $\frac{1}{2}$	8.75
16 ..	13.85	61.62 $\frac{1}{2}$	22.00	28.00	68 $\frac{1}{4}$	9.07 $\frac{1}{2}$	8.70
17 ..	14.00	62.25	22.00	28.00	68 $\frac{3}{8}$	9.10	8.67 $\frac{1}{2}$
18 ..	14.05	62.50	22.00	28.00	69	9.10	8.70
21 ..	14.00	62.75	22.00	28.00	69	9.10	8.72 $\frac{1}{2}$
22 ..	13.95	62.50	22.00	28.00	69	9.15	8.72 $\frac{1}{2}$
23 ..	13.95	63.00	22.25	28.00	68 $\frac{3}{4}$	9.20	8.72 $\frac{1}{2}$
24 ..	13.95	63.00	22.25	28.00	68 $\frac{3}{4}$	9.20	8.70
28 ..	13.95	63.25	22.50	28.00	68 $\frac{3}{4}$	9.17 $\frac{1}{2}$	8.70
29 ..	13.95	63.00	23.25	28.00	68 $\frac{3}{4}$	9.15	8.70
30 ..	13.95	63.37 $\frac{1}{2}$	24.00	28.00	68 $\frac{3}{4}$	9.15	8.70
31 ..	13.95	63.62 $\frac{1}{2}$	24.25	28.00	68 $\frac{1}{2}$	9.15	8.70
High	15.10	64.50	24.50	28.00	72 $\frac{1}{2}$	10.75	8.90
Low	13.15	50.00	11.00	27.00	66 $\frac{1}{2}$	7.30	6.75
Av'ge	14.16	57.90	17.50	27.19	69.07	8.92	7.66

COMPOSITE METAL PRICE.

The composite metal price is a convention devised by the "American Metal Market" to show at one glance the bulk movement of metal prices, the metals being weighted according to their tonnage importance. The composite metal price is thus computed (for January 2, 1926):

Pounds.	Metal.	Price.	Extension.
3	Electro. Cop. (N.Y.)	13.95	41.850
½	Tin (New York)	63.50	31.750
4	Lead (St. Louis)	9.15	36.600
2½	Zinc (St. Louis)	8.75	21.875

10 pounds 132.075

One pound 13.207

Annual averages below:

1892	7.273	1909	8.444
1893	6.714	1910	8.665
1894	5.934	1911	9.043
1895	6.112	1912	10.750
1896	6.116	1913	9.977
1897	6.532	1914	8.555
1898	7.039	1915	12.542
1899	9.910	1916	16.826
1900	9.247	1917	17.643
1901	8.931	1918	16.654
1902	7.691	1919	12.928
1903	8.480	1920	12.882
1904	8.289	1921	8.219
1905	9.707	1922	9.339
1906	11.734	1923	11.125
1907	11.755	1924	11.285
1908	8.290	1925	12.626

Ten year average 1904-1913 9.665

Note—Prior to 1900 the yearly averages are figured on the New York prices of lead and zinc, instead of the St. Louis prices, and on the price of Lake copper instead of Electrolytic.

P. & W. MACLELLAN, LIMITED

GLASGOW

TELEGRAMS:

"MACLELLAN," GLASGOW

[ESTABLISHED 1811]

TELEPHONES:

20 DIRECT LINES

NUMBER 2000 BELL

COPPER - TIN - SPELTER - LEAD - ANTIMONY
COPPER AND BRASS SHEETS AND TUBES
IRON AND STEEL - PIG IRON

also

SCRAP COPPER, GUN METAL, BRASS, IRON, ETC.

CONTRACTORS TO BRITISH, INDIAN, COLONIAL
AND FOREIGN GOVERNMENTS AND RAILWAYS

COMPARISON OF METAL PRICES.

In the following table the extreme fluctuations and average prices of metals in 1925 are given in comparison with corresponding figures for the post-war period 1910-1924, the war period 1915-1918 and the ten-year pre-war period 1904-1913. The tin, copper and antimony prices are on the basis of f.o.b. New York, while the lead and zinc prices are f.o.b. St. Louis.

Tin—	High.	Low.	Average.
1925.....	64.50	50.00	57.90
1919-1924.....	72.50	25.50	45.23
1915-1918.....	110.00	32.00	57.65
1904-1913.....	51.05	25.75	36.48

Copper—			
1925.....	15.10	13.15	14.16
1919-1924.....	23.50	11.50	15.06
1915-1918.....	37.00	12.80	24.95
1904-1913.....	26.00	11.10	15.36

Lead—			
1925.....	10.75	7.30	8.92
1919-1924.....	10.05	3.90	6.47
1915-1918.....	12.00	3.50	6.88
1904-1913.....	6.12½	3.35	4.55

Zinc—			
1925.....	8.90	6.75	7.66
1919-1924.....	9.50	4.12½	6.37
1915-1918.....	27.00	5.55	11.17
1904-1913.....	7.50	4.00	5.64

Antimony—			
1925.....	24.50	11.00	17.50
1919-1924.....	17.50	4.15	7.58
1915-1918.....	45.00	7.62½	22.03
1904-1913.....	27.00	6.00	9.81

**THE
AMERICAN METAL
CO., LTD.**

NEW YORK CITY

St. Louis

Joplin

Pittsburgh

Sellers of:

COPPER

TIN - GOLD

SILVER - LEAD - ZINC

COAL - SULPHURIC ACID

ZINC SULPHATE - SELENIUM

Buyers of:

Gold, Silver, Lead, Zinc and

Copper Ores, Copper Matte,

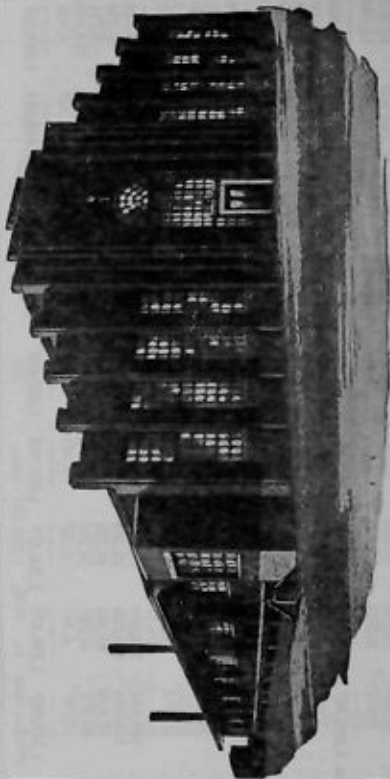
Copper Bullion, Lead Bullion

WORLD'S PRODUCTION OF COPPER.

Statistics based on Blister Copper referred to countries wherein ore originated; according to the American Bureau of Metal Statistics, in tons of 2,000 lbs. * Estimated.									
	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.
United States	971,123	961,016	968,687	604,642	635,248	238,420	511,970	754,000	819,000
Mexico	60,751	52,348	83,233	66,661	49,866	13,576	29,842	60,538	49,150
Canada	52,880	55,790	58,068	39,789	39,121	22,632	25,300	40,230	51,018
Cuba	8,613	11,365	13,595	10,991	7,491	8,600	11,788	11,963	12,742
Total North America	1,093,367	1,080,519	1,123,583	722,083	731,726	283,228	578,900	866,731	931,900
Bolivia	5,675	7,053	6,612	7,714	10,910	10,674	10,154	11,744	8,200
Chile	78,559	112,985	117,851	87,721	109,075	65,299	142,830	201,042	209,855
Peru	47,472	49,784	48,944	43,243	36,356	36,689	40,133	48,684	38,495
Venezuela	1,300	1,900	670	700	.....	800	1,075	1,175	1,230
Total South America	133,006	171,722	174,077	139,378	156,341	113,462	194,192	262,645	257,780
Germany	27,325	31,552	16,641	17,384	19,015	20,944	18,739	18,739	21,495
Russia	23,018	17,632	.....	.....	.....	.....	2,205	2,205	3,600
Spain and Portugal ..	39,021	45,084	50,596	38,581	25,353	36,596	40,234	57,115	60,713
Other Europe	16,070	24,301	17,373	7,931	8,555	19,147	24,670	35,890	32,953
Total Europe	105,434	118,569	84,610	63,896	52,923	76,687	85,848	113,949	118,761
Asia	110,900	119,058	99,583	87,566	75,320	60,906	60,825	71,126	70,756
Australasia	43,920	40,293	49,284	18,118	29,327	20,869	13,754	19,995	15,711
Africa	43,876	47,007	34,233	34,548	33,708	42,501	58,219	80,410	114,700
Other Countries*	3,307	3,307	3,307	4,409	3,307	3,307	3,307	3,307	4,409
Grand Totals	1,533,810	1,580,475	1,568,677	1,069,998	1,082,652	600,960	995,045	1,418,163	1,514,017
Estimated world's production in 1925, 1,588,100 tons.									



MANUFACTURERS
OF
HOT ROLLED
COPPER RODS
AND
COPPER PRODUCTS



BRENNER, MERVIS COMPANY

3445 South Kedzie Avenue at Drainage Canal, CHICAGO

LONG DISTANCE TELEPHONE ROOSEVELT 1800

SALES OFFICE 954 WEST 21ST STREET, CHICAGO

TOTAL PRODUCTION OF COPPER.

Total world's production of copper 1801-1924 inclusive. Figures are selected from statistics issued by several authorities whose data are used in this book; in tons of 2,240 pounds.

	United States. Production.	World's Total Production.
1801-1850.....	2,400	831,400
1851-1900.....	2,996,493	8,526,516
1801-1900.....	2,998,893	9,357,916
1901-1914.....	5,927,926	10,581,806
1915-1924.....	6,308,534	11,108,025
1901-1924.....	12,236,460	21,689,831
1801-1924.....	15,235,353	31,047,747
1925 estimated...	755,804	1,327,208

WORLD'S PRODUCTION OF COPPER.

World's production of copper from figures issued by H. R. Merton & Company, Ltd., American Bureau of Metal Statistics and the U. S. Geological Survey; in tons of 2,240 pounds.

1887.....	223,798	1906.....	712,934
1888.....	258,026	1907.....	709,736
1889.....	259,837	1908.....	744,240
1890.....	269,096	1909.....	836,870
1891.....	282,713	1910.....	861,109
1892.....	314,509	1911.....	878,511
1893.....	304,943	1912.....	982,577
1894.....	315,619	1913.....	955,947
1895.....	332,182	1914.....	908,186
1896.....	377,534	1915.....	1,044,125
1897.....	405,831	1916.....	1,363,047
1898.....	429,379	1917.....	1,395,405
1899.....	463,693	1918.....	1,387,729
1900.....	486,999	1919.....	989,790
1901.....	517,865	1920.....	939,227
1902.....	548,604	1921.....	549,404
1903.....	586,143	1922.....	855,552
1904.....	649,300	1923.....	1,233,628
1905.....	689,784	1924.....	1,350,118
		1925*.....	1,327,208

* Estimated.

METALS SALES CORPORATION

(Mining Companies' Agents)

25 Broadway, New York City

Electrolytic

COPPER

Casting

Telephone: Bowling Green 0551

Cable Address: Metalsales, N. Y.

COPPER PRODUCTION OF PRINCIPAL PRODUCING COUNTRIES.

Smelter production of blister copper from both native and foreign ores, by the principal producing countries which furnished about 97% of the world's production in 1923 and 1924, as reported by the American Bureau of Metal Statistics; in tons of 2,000 pounds.

	1923.	1924.	1925.
United States..	833,735	898,464	947,333
Mexico	43,100	36,955	36,260
Canada	23,222	25,733	27,654
Chile and Peru	225,414	227,910	236,984
Japan	67,558	68,860	72,412
Australia	19,876	15,762	12,822
Europe (b) ...	77,700	88,000	106,200
Belgian Congo.	62,568	94,478	98,748
Rhodesia	3,023	2,827	1,979

Totals	1,356,196	†1,458,989	1,540,392
Other countries (estimate)		60,800	47,200

World's production..... 1,519,800 1,587,600

(b) Incomplete; partly estimated. † This figure does not agree with total for 1924 shown below, the latter including additional production which has not been distributed by countries.

Production of Above Countries by Months.

	1922.	1923.	1924.	1925.
Jan. ..	44,476	102,643	118,781	130,310
Feb. ..	53,136	94,925	117,627	122,975
Mar. ..	64,831	113,837	122,616	135,359
Apr. ..	67,865	107,492	119,176	124,510
May ..	80,283	115,660	124,250	126,236
June ..	86,378	113,099	122,100	125,685
July ..	85,692	112,220	121,717	124,926
Aug. ..	87,645	120,114	119,166	122,618
Sept. ..	91,066	117,994	116,557	125,206
Oct. ...	98,990	118,103	129,547	138,234
Nov. ..	95,186	118,962	122,008	132,524
Dec. ..	99,094	120,603	125,936	131,809

Total	954,642	1,356,196a	1,459,484	1,540,392
M'thly av.	79,553	113,016a	121,623	128,366

(a) Monthly figures do not foot up to this total owing to adjustment.



"American Brand"

WEATHERPROOF

Copper Wire and Cables

Iron Wire

Slow Burning Weatherproof

copper wire and cable (black)

Slow Burning copper wire
and cable (white)

BARE COPPER WIRE and cables

GALVANIZED GUY WIRE

MAGNET WIRE



American Insulated Wire & Cable Co.

Chicago, Illinois

U. S. COPPER PRODUCTION.

Smelter production, from domestic ores, in tons of 2,000 pounds.

1860	....	8,064*	1902	....	329,754*
1861	....	8,400*	1903	....	349,022*
1862	....	10,580*	1904	....	406,269*
1863	....	9,520	1905	....	444,392*
1864	....	8,960	1906	....	458,903*
1865	....	9,520	1907	....	434,498
1866	....	9,968	1908	....	471,285*
1867	....	11,200*	1909	....	546,476*
1868	....	12,992*	1910	....	540,080
1869	....	14,000*	1911	....	548,616*
1870	....	14,112*	1912	....	621,634*
1871	....	14,560*	1913	....	612,242
1872	....	14,000	1914	....	575,069
1873	....	17,360*	1915	....	694,005*
1874	....	19,600*	1916	....	963,925*
1875	....	20,160*	1917	....	943,060
1876	....	21,280*	1918	....	954,266
1877	....	23,520*	1919	....	643,210
1878	....	24,080*	1920	....	604,531
1879	....	25,760*	1921	....	252,793
1880	....	30,240*	1922	....	475,143
1881	....	35,840*	1923	....	717,500
1882	....	45,323*	1924	....	817,125
1883	....	57,763*	1925†	...	846,500
1884	....	72,473*			
1885	....	82,938*			
1886	....	78,882			
1887	....	90,739*			
1888	....	113,181*			
1889	....	113,388*			
1890	....	129,882*			
1891	....	142,061*			
1892	....	172,499*			
1893	....	164,677			
1894	....	177,094*			
1895	....	190,307*			
1896	....	230,031*			
1897	....	247,039*			
1898	....	263,256*			
1899	....	284,333*			
1900	....	303,059*			
1901	....	301,036			

Totals.

1845-54	..	9,688
1855-64	..	71,956
1865-74	..	137,312
1875-84	..	356,439
1885-94	..	1,265,341
1895-04	..	2,904,106
1905-14	..	5,253,195
1845-14	..	9,998,037
1915-24	..	7,065,558
1845-24	..	17,063,595

* Record years.

† Estimated.

NICHOLS COPPER COMPANY

25 BROAD STREET, NEW YORK

**PRODUCERS AND SELLERS OF
"L N S" AND "TRIANGLE"
BRAND**

Electrolytic Copper

**PURCHASERS AND REFINERS OF
COPPER BULLION, MATTES
ORES, CONCENTRATES
AND RESIDUES
OFFERS INVITED**

**WORKS:
LAUREL HILL, N. Y.**

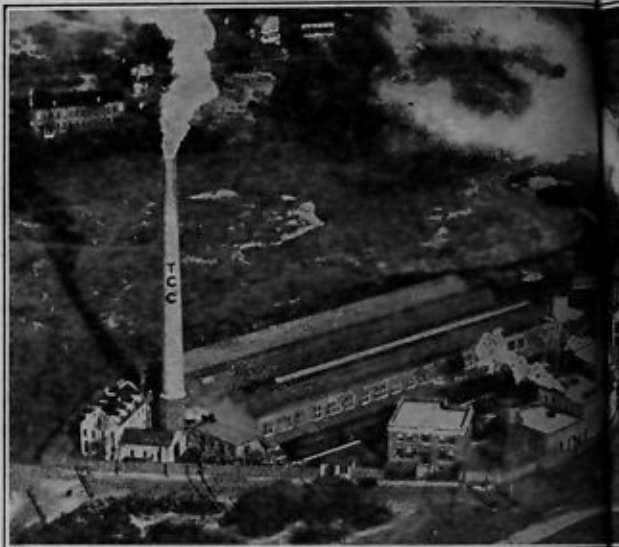
PRODUCTION OF COPPER IN THE UNITED STATES — BY STATES.

Smelter production, in tons of 2,000 pounds.

	1905.	1910.	1915.	1918.	1919.	1920.	1921.	1922.	1923.	1924.
Alaska	2,450	2,156	35,348	33,541	28,268	33,047	38,404	29,950	34,324	38,527
Arizona ...	113,427	148,625	216,234	384,761	268,258	276,494	77,583	214,100	307,747	336,183
California..	8,349	22,880	18,829	22,075	11,774	5,912	7,953	10,220	13,521	24,717
Colorado...	4,702	4,654	3,636	3,796	2,446	2,141	3,296	1,818	2,172	2,079
Idaho	3,661	3,439	3,109	2,918	1,983	961	986	1,752	1,832	1,574
Michigan...	115,144	110,731	119,478	115,548	88,797	76,742	50,459	61,273	68,846	72,657
Montana...	157,375	141,539	134,131	163,213	88,145	88,872	24,736	82,671	112,177	124,661
Nevada ...	207	32,247	33,879	53,133	32,342	27,790	7,565	10,199	31,748	38,641
New Mexico	2,667	1,892	31,408	48,280	30,189	26,080	9,038	14,564	28,761	39,073
Tennessee.	...	8,346	9,103	7,527	7,815	8,363	7,542	7,113	9,361	9,126
Ut.h.....	27,042	62,593	87,589	115,482	73,089	55,179	22,916	39,833	105,059	128,265
Other States	9,368	978	1,261	3,993	10,104	2,949	2,315	1,650	1,953	1,612

Totals 444,392 540,080 694,005 954,267 643,210 604,530 252,793 475,143 717,501 817,126

The smelter production in 1925 according to preliminary statistics was 846,500 tons.



Aeroplane view of the Tottenville Copper Works

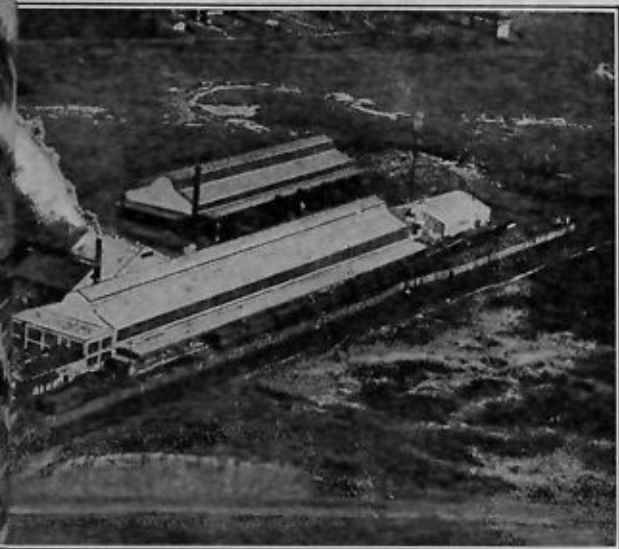
TOTTENVILLE

Prime C. T. C. Ingot Casting Copper
 99½% Pure, Manganese Bronze, Brass
 Rolling Mill Billets, Journal Bearing
 Ingot Metals, Valve Metals, Govern-
 ment Bronze, Acid Resisting Bronze,
 Yellow Brass, Richmond High Grade
 Zinc, Grid Antimonial Lead, White
 Metal Products, Solder, Babbitt, Terne



TOTTENVILLE CO

Cable Address: "TOTTENCOP NEW YORK" TOTTENVILLE



Brass, Bronze and White Metal Refineries

PRODUCTS



Metal, Type Metal, Britannia Metal, Casket Hardware Metal. Annual Capacity: White Metal, 75,000,000 lbs., Brass, Bronze Ingots and Billets, 100,000,000 lbs., Blister and Copper Ingots, 50,000,000 lbs., High Grade Slab Zinc, 25,000,000 lbs.

COPPER REFINERIES

LE, N. Y.

Telephone: 929 TOTTENVILLE

BRASS AND COPPER

MANUFACTURERS

**Sheets, Rolls, Rods, Tubes
Lock Seam Tubing
Spinings, Stampings & Eyelets**



Dallas Brass & Copper Co.

**GENERAL OFFICE AND FACTORY
820 ORLEANS STREET, CHICAGO**

DETROIT

CLEVELAND

NEW YORK

Middle Western Representatives of the

FRENCH MFG. CO., WATERBURY, CONN.

Members—Copper & Brass Research Assn.

COPPER PRODUCTION BY GRADES.

Production of refined copper in the United States, exclusively from ores of both domestic and foreign origin; secondary copper is not included. Figures of Copper Producers' Association for 1912; U. S. Geological Survey reports for subsequent years; distributed according to class, in tons of 2,000 pounds.

Year.	Lake.	Electrolytic.	Casting.	Pig.	Total.
1912	115,814	644,167	12,389	18,591	790,961
1913	77,858	700,371	11,303	18,002	807,534
1914	70,005	657,466	10,753	19,667	766,891
1915	118,379	680,422	10,778	7,524	817,103
1916	134,897	975,128	6,235	13,434	1,129,694
1917	134,254	1,003,872	34,958	41,188	1,214,272
1918	115,548	1,026,254	36,307	38,083	1,216,192
1919	88,797	802,277	9,743	1,837	902,654
1920	76,742	730,218	8,098	2,397	817,455
1921	50,459	455,935	3,508	111	510,013
1922	61,273	607,865	10,192	.....	679,330
1923	68,846	986,520	14,908	.....	1,070,274
1924	72,667	1,111,117	19,210	.....	1,202,994

Estimated production and imports of refined copper for 1925.....1,178,500

Note.—The distribution of refined copper according to class is only approximate, as an accurate separation at this stage of manufacture is not possible. Beginning 1913, "Electrolytic" totals include imports of refined copper.

High Quality **BIRKENSTEIN** METAL SPECIALTIES that will improve the quality and sale of your product.

PIG LEAD
WIZARD BRONZE
NO. 12 ALUMINUM
ANTIMONIAL LEAD
GLOBE SLAB ZINC
ELECTROLYTIC ZINC
ELECTROLYTIC COPPER
X YELLOW BRASS INGOT
DIE CASTING METALS
NO. 1 BRICK COPPER WIRE
SELECTED RED BRASS CASTINGS
SELECTED YELLOW BRASS CASTINGS

And other metal specialties for non-ferrous
foundries. Write us your requirements —
We'll do the rest.

S. BIRKENSTEIN & SONS, Inc.

Chicago
New York
Philadelphia

Minneapolis
Milwaukee
San Francisco

Home Office
1030 W. North Ave., Chicago, Ill.

SB
&
SONS
INC.

SB
&
SONS
INC.

ELECTROLYTIC COPPER REFINERIES OF THE U. S. AND CANADA.

Works.	Location.	— Capacity in Tons§ —			Increase 1914-25.
		1914.	1924.	1925.	
American Smelt. & Ref. Co.....	Baltimore, Md. . .	168,000	360,000	360,000	114%
American Smelt. & Ref. Co.....	Maurer, N. J. . . .	108,000	120,000	129,000	19%
American Smelt. & Ref. Co.....	Tacoma, Wash. . .	24,000	102,000	102,000	325%
Anaconda C. M. Co. (old plant)	Gt. Falls, Mont. . .	32,500	(b)	(b)	(*)
Anaconda C. M. Co. (new plant)	Gt. Falls, Mont. . .	.....	105,000	105,000	(*)
Balbach Smelt. & Ref. Co.....	Newark, N. J. . . .	24,000	†	†	
British America Nickel Co.†.....	Deschenes, Que. . .	.....	4,000	†	
Calumet & Hecla Smelt. Wks.....	Hubbell, Mich. . .	32,500	30,000	(c)	
Consolidated Min. & Smelt. Co.	Trall, B. C. . . . .	.....	25,000	25,000	(*)
Nichols Copper Co.	Laurel Hill, N. Y. .	200,000	250,000	250,000	25%
Raritan Copper Works	P'th Amboy, N. J. .	200,000	240,000	240,000	20%
U. S. Metals Refining Co.	Chrome, N. J. . . .	100,000	168,000	200,000	100%
Totals.....		889,000	1,404,000	1,411,000	59%

† Dismantled in 1919. (*) Started operating in 1916. † Started in 1920; operations discontinued in 1924. (b) Dismantled 1920. (c) Not operating at close of 1924; dismantled in 1925. § Tons of 2,000 lbs.

**New Home of The
More-Jones Brass & Metal Co.
St. Louis, Mo.**



One of the largest and most modern plants of its kind in the world.

NOW AT YOUR SERVICE

Avail yourself of our unsurpassed facilities for producing most economically, Brass, Bronze and Aluminum Castings of any kind; Babbitt Metals Etc.

You are assured of uniformity and dependability in MORE-JONES products

Prompt Shipments Guaranteed

PRODUCTION OF SECONDARY COPPER IN THE UNITED STATES.

(Tons of 2,000 pounds)	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.
Copper produced:								
Secondary smelters	88,442	88,130	83,730	97,000	99,020	113,400	141,300	141,500
From alloys, not brass..	31,400	34,380	28,670	33,600	14,330	30,700	51,900	55,000
Totals.....	119,842	122,510	112,400	130,600	113,350	144,100	193,200	196,500
From new scrap	45,000	36,000	34,000	45,500	28,400	25,300	35,000	36,000
From old scrap	74,842	86,510	78,400	85,100	84,950	118,800	158,200	160,500
Totals.....	119,842	122,510	112,400	130,600	113,350	144,100	193,200	196,500
Copper content of brass scrap smelted (averaging about 70% copper):								
New scrap	143,500	140,000	100,590	98,000	56,910	107,800	105,000	86,100
Old scrap	80,500	90,160	74,200	93,860	47,040	84,000	112,700	105,700
Totals.....	224,000	230,160	174,790	181,860	103,950	191,800	217,700	191,800
Total copper produced at secondary plants:								
From new scrap	188,500	176,000	134,590	143,500	85,310	133,100	140,000	122,100
From old scrap	155,342	176,670	152,600	168,960	131,990	202,800	270,900	266,200
Totals.....	343,842	352,670	287,190	312,460	217,300	335,900	410,900	388,300

SHIPMENTS OF COPPER BY SHAPES.

Domestic and export shipments of refined copper shapes in 1925 as compiled by the American Bureau of Metal Statistics; in tons of 2,000 pounds.

Shapes—	Exports	1925 Domestic	Total	Per cent. of total
Wire bars	393,865	518,117	911,982	64.42
Ingot bars	63,464	42,772	106,236	7.50
Ingots ...	6,810	91,217	98,028	6.92
Cakes ...	42,251	96,988	139,239	9.84
Cathodes.	45,763	65,676	111,439	7.87
Bessemer.	27,274	78	27,352	1.93
Oth. shapes	5,126	16,323	21,448	1.52
Total ..	584,553	831,171	1,415,724	100.00
Per cent. of total..	41.29	58.71	100.00	

Export Shipments.

To:	1925 Tons	Per cent. of total
Canada	12,281	2.10
Mexico	721	0.12
South America	571	0.10
Belgium	45,419	7.77
Denmark	3,267	0.56
England	113,505	19.42
France	96,547	16.52
Germany	151,043	25.84
Holland	49,269	8.43
Italy	80,093	13.70
Norway and Sweden.	14,093	2.41
Spain	3,621	0.62
Far East	13,217	2.26
Other countries	906	0.15
Total	584,553	100.00

IMPORTS OF COPPER.

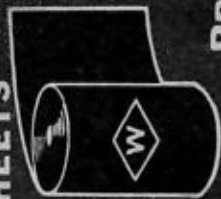
Imports of copper to the United States according to New York Metal Exchange figures; ore, matte and regulus reduced to fine copper; in tons of 2,240 lbs.

	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	6,500	16,000	26,000	19,000	9,000	16,500	17,500	5,500	16,500	30,000	14,100
Feb.	8,500	15,500	17,500	27,000	21,000	20,000	18,000	10,000	17,000	30,000	26,237
Mar.	10,000	18,000	19,500	24,000	27,000	17,500	10,000	15,000	23,500	29,000	19,564
Apr.	8,700	18,500	22,000	21,000	14,500	12,000	15,500	16,000	15,500	20,000	29,549
May	9,300	16,000	22,000	20,500	10,500	23,000	7,000	12,000	34,000	27,000	29,004
June	14,500	19,500	28,000	11,000	14,000	22,000	9,000	19,000	28,500	36,000	20,608
July	15,000	18,000	9,000	16,500	15,000	12,000	14,000	19,500	23,000	28,000	21,687
Aug.	13,500	18,500	22,000	32,000	12,000	13,000	10,000	21,000	37,000	25,000	30,044
Sept.	17,000	16,000	17,500	22,000	16,000	12,500	10,500	25,000	21,000	22,000	23,368
Oct.	13,000	15,000	16,500	20,000	12,000	14,500	14,500	18,000	27,000	20,000	23,221
Nov.	10,000	12,000	16,000	20,000	23,000	16,000	11,000	33,000	26,000	37,000	24,479
Dec.	11,500	16,000	26,000	18,000	13,000	17,500	14,000	26,000	23,000	27,000	25,836

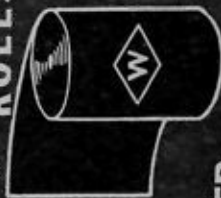
Tot. 137,500 199,000 242,000 251,000 187,000 196,500 151,000 220,000 292,000 331,000 287,697

(Detailed statistics of imports are given on pages 251 and 259.)

SHEETS



ROLLS



***Western*
BRASS**

BRONZE

NICKEL SILVER

WESTERN CARTRIDGE COMPANY
EAST ALTON, ILL.

CHICAGO

INDIANAPOLIS

Agencies and Offices
DETROIT

CLEVELAND

PITTSBURGH

IMPORTS OF COPPER INTO THE UNITED STATES.

Ore and matte (copper contents):

(In tons of 2,000 pounds).

	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Cuba	22,672	14,359	7,989	9,223	8,978	12,639	11,704	11,700	15,581
Canada	15,567	15,859	14,101	14,278	1,812	1,774	10,923	14,391	22,059
Mexico	20,084	32,439	28,685	17,088	7,254	7,592	18,341	12,862	13,536
Chile	21,953	9,474	7,750	9,256	20,930	23,129	22,534	24,041	22,518
Other countries	7,597	6,477	4,702	8,374	12,427	11,286	8,024	10,985	7,971
Totals	87,873	78,608	63,227	58,219	51,401	56,420	71,526	73,979	81,665
Blister and black (copper contents):									
Canada	20,286	18,941	15,599	13,144	11,037	23,106	21,257	25,561	25,250
Mexico	20,107	41,784	26,305	36,335	8,225	23,008	41,081	34,982	35,889
Chile	81,113	78,143	44,929	23,145	19,621	22,108	53,039	62,142	29,900
Peru	50,151	40,746	40,415	41,255	36,008	40,927	38,947	37,476	36,162
Portuguese Africa	2,719	6,509	3,126	1,545	2,445	22,199	35,110	62,409	46,385
Other countries	3,423	3,064	1,235	6, 4	8,530	19,943	8,198	12,945	16,080
Totals	177,799	189,187	131,609	122,348	85,866	151,291	197,632	235,515	189,666
Refined ingots..	3,374	19,044	17,569	54,372	34,625	51,571	64,234	72,955	49,887
Scraps, alloys..	9,162	1,065	2,287	7, 897	3,344	11,226	4,844	1,959	5,268
Grand Totals ..	278,208	287,904	214,692	242,836	175,236	270,508	338,236	384,408	326,486

THE RIVERSIDE METAL CO.

RIVERSIDE, N. J.



N. Y. Office
15 Maiden Lane

Cincinnati Office
414 Walnut St.

Chicago Office
29 E. Madison St.

NICKEL SILVER PHOSPHOR BRONZE BRASS

Rod - Wire - Sheet - Plate

Platers Metal - Shot Copper

Guinea Gold Alloy

SPECIAL ALLOYS FOR SPECIAL
PURPOSES

“ RIVERSIDE QUALITY ”

EXPORTS OF COPPER.

From the United States, compiled by the New York Metal Exchange from Custom House Returns; in tons of 2,240 lbs. Figures for 1915 and 1916 do not include exports to Canada and Mexico.

	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	*1925.
Jan.	26,193	23,663	51,322	40,529	35,343	21,804	24,068	24,679	33,409	31,079	44,877
Feb.	15,583	20,648	32,265	28,162	17,937	25,700	27,748	22,910	21,643	39,144	29,126
Mar.	30,148	26,321	51,218	31,188	12,036	39,236	17,151	35,851	28,284	43,689	55,417
April	18,738	21,654	49,536	23,811	10,272	28,644	18,397	28,367	28,225	43,379	48,279
May	28,889	16,062	49,245	30,793	10,489	37,090	15,736	27,894	25,911	43,281	51,284
June	16,976	39,595	41,177	31,049	13,183	25,581	22,339	29,191	27,017	41,029	47,805
July	17,708	35,066	24,363	30,147	21,525	20,430	22,774	28,584	27,516	34,596	47,438
Aug.	17,551	32,190	42,735	21,084	23,530	20,121	19,110	26,889	30,458	36,262	35,059
Sept.	14,877	29,803	29,509	33,545	29,093	10,751	28,343	25,144	30,970	42,974	31,713
Oct.	24,087	33,224	41,412	15,152	21,793	10,073	22,934	22,681	33,021	41,800	28,368
Nov.	23,168	22,598	34,044	20,408	14,470	16,954	32,407	24,727	31,598	43,623	28,544
Dec.	42,426	26,486	41,430	22,976	17,498	18,304	27,394	22,201	33,907	43,533	33,494
Tot.	276,344	327,310	493,256	328,844	227,169	274,688	278,401	319,118	351,959	484,389	481,404

* Includes manufactures of copper.

Classified statistics of exports are given on pages 255, 257 and 259.

Furukawa & Co., Ltd.

**Yaesucho Itchome, Kojimachi-Ku
TOKYO, JAPAN**

**The Largest Producer in Japan
of**

**COPPER
AND
ARSENIC**

**HEAD OFFICE:
MARUNOUCHI, TOKYO, JAPAN**

**Cable Address: FURUMINING, TOKYO
Code Used: Bentley's Complete Phrase Code
A. B. C. 5th and 6th Edition**

EXPORTS OF METALLIC COPPER.

Exports of metallic copper from the United States in refined ingots, bars, rods, unrefined, black and blister copper, pipes, tubes, plates, sheets, wire (not insulated) and scrap. As reported by the Department of Commerce; in tons of 2,000 pounds.

	1917.	1918.	1919.	1920.	1921.	1922.	*1923.	§1924.	†1925.
United Kingdom..	203,115	129,433	58,016	55,231	35,536	48,165	89,594	119,409	109,003
Belgium .....	.....	.....	4,151	14,164	13,311	21,108	28,053	38,509	45,475
France	189,587	139,160	45,769	59,357	49,630	67,867	93,394	98,582	73,298
Germany .....	.....	.....	3,416	45,550	116,760	96,623	68,293	104,289	115,206
Italy	90,466	68,043	37,837	1,222	8,265	26,994	35,651	54,122	63,236
Netherlands	1,023	‡	11,203	21,315	14,484	15,778	8,610	30,120	46,297
Spain .....	.....	.....	2,938	3,478	4,460	5,734	3,016	2,626	3,539
Sweden .....	.....	.....	17,803	17,727	4,406	10,209	13,799	14,016	14,553
Other Europe	42,799	10,826	23,009	10,613	5,639	5,572	5,715	3,078	3,302
Canada	26,792	17,949	11,723	16,811	6,785	14,372	22,729	21,646	15,866
China .....	.....	.....	1,199	5,559	18,567	21,409	15,966	31,590	6,067
Japan	53	33	32,822	41,501	29,824	19,860	10,770	9,621	4,247
Other countries..	8,988	5,779	7,911	19,051	6,540	10,306	10,885	11,138	11,079

Totals 562,823 372,123 257,797 311,579 314,207 363,997 406,475 538,746 511,168

*Includes copper in ore and matte. § Includes copper in ore and matte but exclusive of pipes, tubes, plates, sheets and wire. † Includes only refined copper in ingots, bars and rods. ‡ Included with other countries.

Total exports of copper, by grades and products, given on page 257.

ESTABLISHED 1857

THE CINCINNATI RAILWAY SUPPLY CO.

CINCINNATI, OHIO

Copper, Tin, Lead, Zinc, Antimony, Aluminum
and all Non-Ferrous Metals

AGENTS FOR

THE JESSOP STEEL COMPANY

WASHINGTON, PA.

MANUFACTURERS OF

Carbon & High Speed Tool Steels, High Grade Sheets,
Plates, Bands, Strips, Etc.

Warehouses;

Cincinnati, O.

Dayton, O.

Cleveland, O.

Pittsburgh, Pa.

TOTAL EXPORTS OF COPPER.

From the United States, according to the Department of Commerce; in tons of 2,000 lbs.

	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Ore and matte*..	2,979	1,630	334	220	180	31 }	170	28	1920
Blister & black*..	8,496	7,344	837	922	75	85 }			
Refined ingots, bars, etc.....	515,390	345,014	182,580	232,113	291,674	326,333	364,690	504,812	484,033
Plates & sheets.	21,332	9,736	6,882	11,390	2,553	3,374	2,268	3,386	6,103
Rods† .....	.....	.....	36,500	43,500	12,770	26,094	31,347	31,309	27,135
Wire not insulated	13,440	7,845	27,776	20,906	5,703	5,800	4,921	4,872	5,833
Insulated wire and cable .....	.....	.....	.....	.....	.....	4,288	5,841	7,736	8,908
Pipes and tubes.. (a) 3,630	.....	2,055	2,997	2,450	1,124	911	1,307	1,325	1,392
Alloys..... (a) 614	.....	93	182	227	14	111	60	42	11
Oth. manufact'ress	.....	.....	.....	.....	.....	3,091	2,282	2,350	1,728
Old and scrap ...	535	129	225	289	308	1,400	1,772	2,597	6,053

Total..... 566,416 373,846 258,313 312,026 314,401 371,518 414,658 558,457 542,105

* Copper contents. † Includes refined ingots, etc., and all other manufactures of; except ore. ‡ Included in "Refined ingots, bars, etc." prior to 1919. § Data not available prior to 1922. ¶ Alloys included with ore, matte, blister and black copper.

(a) Beginning July 1. (Summary of copper exports shown on page 259.)

COPPER

Guggenheim Brothers
120 Broadway
New York

SUMMARY OF UNITED STATES IMPORTS AND EXPORTS OF COPPER.

Annual imports and exports of copper by classes as reported by the Department of Commerce; in tons of 2,000 pounds.

Imports.

Year.	Ore and Blister Contents.	Refined in Ingots, Bars, etc.	Rods, Wire, Tubes, Sheets.	Alloys.	† Other Primary Fabrications.	Scrap Copper.	Totals.
1919.....	194,836	17,569	.....	178	.....	2,109	214,692
1920.....	180,567	54,372	.....	2,118	.....	5,779	242,836
1921.....	137,267	34,625	.....	491	.....	2,853	175,236
1922.....	207,711	51,571	.....	556	.....	10,670	270,508
1923.....	269,158	64,234	.....	2,101	.....	2,743	338,236
1924.....	309,494	72,955	.....	104	.....	1,855	384,408
1925.....	271,331	49,887	.....	53	.....	5,214	326,486

Exports.

1919.....	1,171	182,580	74,155	182	†	225	258,313
1920.....	1,142	232,113	78,255	227	†	289	312,026
1921.....	255	291,674	22,150	14	†	308	314,401
1922.....	116	326,333	36,179	111	7,379	1,400	371,518
1923.....	170	364,690	39,843	60	8,123	1,772	414,658
1924.....	28	504,812	40,892	42	10,086	2,597	558,457
1925.....	* 920	484,033	40,463	*	10,636	6,053	542,105

* Alloys included with ore, and blister copper. † Not reported. ‡ Insulated wire and cable and "other manufactures".

KEYSTONE CASTINGS

FROM 1 TO 10,000 POUNDS

COPPER - BRASS - BRONZE

For almost two score years Keystone Castings have had a distinctive identity among the executives of industry.

The highest production principles combined with the best foundry practice are responsible for their unusual quality. Plant facilities including the latest methods of production and a policy of rigid inspection of every casting that carries the Keystone name, are our assurance of delivering quality right to the buyer's door—on time.

5-10-15% Phosphor Copper.

We specialize in work for Blast Furnaces, Hoop and Rod Mills, Plate Mills, Machinery Builders, Ship Builders and Railroads. Acid Resisting Castings for Sheet and Tin Mills. Copper castings for Bank Safes and Vaults. Specification work a specialty. Write us.

KEYSTONE BRONZE CO.

Established 1887

General Offices 39th Street

PITTSBURGH, PENNSYLVANIA

District Sales Offices

New York

Philadelphia

Washington

Louisville

Portland

CONSUMPTION OF COPPER IN U. S.

According to U. S. Geological Survey, except for the returns of the Copper Producers' Association for 1909-13; in tons of 2,000 lbs. Of recent years exports of copper wire, sheets, tubes, plates, etc., have not been included as domestic consumption.

Year.	Tons.	Year.	Tons.
1902	275,844	1914	350,812
1903	263,215	1915	568,309
1904	241,095	1916	739,441
1905	280,503	1917	697,414
1906	343,133	1918	830,835
1907	243,886	1919	457,236
1908	239,978	1920	526,919
1909	352,526	1921	305,494
1910	374,713	1922	448,317
1911	354,806	1923	650,237
1912	409,833	1924	677,371
1913	406,134	1925	742,500

Note—Above figures present only consumption of primary or virgin copper and do not include copper produced from scrap even though it may go through the regular refineries. Secondary production by refineries in 1925 was estimated at 92,000 tons.

STOCKS OF COPPER IN U. S.

Stocks of refined and blister copper and material in process of refining at beginning of each year as reported by U. S. Geological Survey; in tons of 2,000 pounds.

	Refined Copper.	Blister and material in process of refining.
1913.....	52,749	137,036
1914.....	45,193	123,895
1915.....	86,820	101,534
1916.....	41,215	137,000
1917.....	64,000	212,000
1918.....	57,000	205,500
1919.....	90,000	281,300
1920.....	315,500	136,500
1921.....	329,500	232,500
1922.....	229,500	141,500
1923.....	108,000	180,500
1924.....	132,000	216,000
1925.....	121,500	196,500
1926.....	56,000	199,300

**BRONZE
BRASS
ALUMINUM**

Castings

**MILL BEARINGS
BUSHINGS
ANTI-ACID METAL
HYDRAULIC PUMP WORK
PICKLE CRATES**

*Castings in the
rough or machined*
Send us your inquiries

THE SHOOP BRONZE COMPANY

344-354 West Sixth Avenue

Bell Phone 371

TARENTUM, PA.

(PITTSBURGH DISTRICT)

USES OF COPPER IN THE UNITED STATES.

Estimated ultimate uses of copper reported by American Bureau of Metal Statistics; in short tons.

	1920		1921		1922		1923		1924	
	Tons.	%	Tons.	%	Tons.	%	Tons.	%	Tons.	%
Electrical manufactures	170,000	24.85	130,000	28.27	134,500	24.95	178,500	24.22	195,500	25.54
Telephones and telegraphs ..	61,000	8.92	54,000	11.74	60,000	11.13	75,000	10.18	80,000	10.45
Light and power lines	29,500	4.31	33,000	7.18	48,750	9.04	85,850	11.64	90,000	11.76
Wire cloth, wire and rods, n.e.s.	48,900	7.15	30,200	6.57	43,100	7.99	59,750	8.12	69,100	9.03
Automobiles*	60,575	8.86	47,700	10.37	74,600	13.84	105,100	14.26	94,950	12.40
Buildings†	34,500	5.04	22,150	4.82	36,950	6.86	38,550	5.16	40,450	5.28
Locomotives	5,930	.87	2,945	.64	2,515	.47	6,300	.85	3,350	.44
Railway cars	4,285	.63	2,740	.60	3,735	.69	10,250	1.39	7,150	.93
Air brakes	2,800	.41	1,675	.36	2,800	.52	2,900	.39	2,900	.37
Shipbuilding	38,050	5.56	23,950	5.21	3,175	.59	6,050	.82	4,250	.56
Bearing metal and bushings ..	42,000	6.14	14,000	3.04	21,000	3.90	41,200	5.59	34,550	4.51
Valves and pipe fittings	20,000	2.92	9,200	2.00	16,000	2.97	20,000	2.71	21,000	2.74
Ammunition	11,700	1.71	8,250	1.79	6,200	1.15	6,400	.86	4,600	.60
Lubricators, etc.	3,000	.44	800	.17	2,750	.51	3,000	.41	3,300	.43
Condensers	3,000	.44	2,000	.44	2,400	.45	2,400	.33	1,800	.24
Fire-fighting apparatus	3,000	.44	1,500	.33	1,750	.32	2,800	.38	2,850	.37
Copper bearing steel	1,150	.17	850	.18	1,100	.20	1,150	.15	1,200	.16
Coinage	1,575	.23	1,465	.32	238	.04	650	.09	500	.07
Radio receiving sets .....	.....	....	900	.20	1,800	.33	1,800	.24	2,250	.30
Other uses	36,270	5.30	23,560	5.12	27,750	5.15	37,900	5.14	51,700	6.75
Manufactures for export§	106,800	15.61	49,000	10.65	48,000	8.90	52,100	7.07	54,100	7.07
Total in manufactures	684,035	100.00	459,885	100.00	539,113	100.00	737,150	100.00	765,500	100.00

† Outside wiring, exclusive of trolley lines. * Exclusive of electrical manufactures. ‡ Does not include generators, motors, etc. § Includes all primary fabrications of copper and its alloys. Estimated 1925 consumption in electrical manufactures, 183,500 tons; automobiles, 113,425 tons; buildings, 46,700 tons; manufactures for export, 57,850 tons; railway bearings, 16,800 tons.

ESTABLISHED 1812

RICHARDS CO., Inc.

**MANUFACTURERS
OF
PHOSPHOR
COPPER**

PIG - TYPE

METALS

SHEET - BEARING



PRODUCTS

BATTERY WHARF
BOSTON



SERVICE

GRADES OF COPPER.

Lake.—Copper from the native copper mines of the Lake Superior district. The standard range of conductivity is 99.5%.

Electrolytic.—Copper refined by the electrolytic process and running 99.93% upwards for cathodes. Conductivity to 103%.

Casting.—Copper analyzing 99.50 to 99.75% made from ore and scrap. Used for casting purposes.

Best Selected.—British copper averaging 99.75% fine. Largely used in the British brass trades.

Tough.—British copper largely used for casting, rolling and drawing. Runs about 99.25%.

Chili Bars.—Copper smelted in Chili, running 95 to 99% pure and in some cases carrying bullion.

Standard.—Practically anything running from 96% upwards, dealt in on London Metal Exchange.

Matte.—A semi-metallic compound made from ores and usually running from 25 to 55% copper. An intermediate product between the ore and the finished copper.

DESCRIPTIONS OF COPPER.

Wire Bars.—About 3" to 4" square and 3' to 7' long. Varying in weight 135 to 500 lbs. Used for wire drawing.

Ingots.—Average weight about 18 to 22 lbs. Notched. Used for casting.

Ingot Bars.—Notched bars for casting. Weight from 55 to 110 lbs.

Cakes.—Weight 100 lbs. and upward. Used for rolling.

Anodes.—About 2' by 3', 1½" thick, weighing 250 lbs. Crude copper. Used by electrolytic refiners.

Cathodes.—About 2' by 3' but thicker at the top than the bottom. Refined copper from the electrolytic tanks which is run down to wire bars, etc.

SEYMOUR

HIGHEST



QUALITY

PRODUCTS

NICKEL SILVER
PHOSPHOR BRONZE
COMMERCIAL AND
SEYMOUR BRONZE
BRASS AND GILDING

SHEETS, BLANKS, WIRE, RODS
SHELLS AND INGOTS

NICKEL ANODES

THE SEYMOUR MFG. CO.
SEYMOUR, CONN.

ESTABLISHED 1878

NEW YORK OFFICE, WOOLWORTH BLDG.

PRINCIPAL SELLERS AND BRANDS OF COPPER.

Lake.

Sold by:	Refined at:	Branded:
Calumet & Hecla Co., Inc.	Hubbell, Mich.	C. & H., & C. L., & S. R.
Copper Range Co.	Houghton, Mich.	C. R.
L. P. Yandell	Houghton, Mich.	M. M., & M. S. C., & W.
Quincy Mining Co.	Hancock, Mich.	Q. M. Co.

Electrolytic.

American Metal Co., Ltd.	Carteret, N. J.	D. R. W.
American Smelting & Rfg. Co.	{ Tacoma, Wash.	T.
	{ Baltimore, Md.	B. E. R.
Chile Copper Co.	Chuquicamata	C. C. C.
Consolidated Copper Mines Corp.	Baltimore, Md.	B. E. R.
Consolidated Mining & Smelting Co.	Trail, B. C.	TADANAC
Guggenheim Bros., sell all brands refined at Tacoma, Balto. and N. Y. harbor refineries.		
Int'l Minerals & Metals Corp.	Perth Amboy, N. J.	N. E. C.
Adolph Lewisohn & Sons.	{ Laurel Hill, N. Y.	A. L. S.
	{ Perth Amboy, N. J.	N. E. C.
	{ Perth Amboy, N. J.	N. E. C.
Metals Sales Corp.	Baltimore, Md.	B. E. R.
	{ Great Falls, Mont.	B. & M.

(Continued on page 269)

ESTABLISHED 1881

**THE
KOBLOITZ-KOHN
COMPANY**

CLEVELAND, OHIO

**Metal Merchants
Importers
and Exporters**

**All Grades of
Scrap
Non-Ferrous Metals**

**Buyers of
Copper, Tin, Lead Bearing Material
Zinc Dross, Etc.**

PRINCIPAL SELLERS AND BRANDS OF COPPER.

Electrolytic (continued).

Sold by:	Refined at:	Branded:
Nichols Copper Co.	Laurel Hill, L. I.	Triangle & L. N. S.
Norfolk Smelting Co., Inc.	Perth Amboy, N. J.	N. E. C.
Phelps Dodge Corp.	Perth Amboy, N. J.	C. * Q.
Shattuck, Arizona Copper Co.	Perth Amboy, N. J.	C. * Q.
United States Smelting, Rfg. & Mining Co.	Chrome, N. J.	D. R. W.

Casting.

American Smelting & Rfg. Co.	{ Tacoma, Wash.	T. C.
Balbach Smelting & Rfg. Co.	{ Baltimore, Md.	B. C. W.
Duquesne Reduction Co.	Newark, N. J.	N. B. C.
Great Western Smelting & Rfg. Co.	Pittsburgh, Pa.	D. R. C.
Linndale Reduction Co.	Chicago, Ills.	V. W.
Metals Sales Corp.	Cleveland, O.	L. R. C.
Nichols Copper Co.	Perth Amboy, N. J.	A. B. S.
Phelps Dodge Corp.	{ Laurel Hill, L. I.	C. N. C.
Tottenville Copper Co.	{ Cleveland, O.	L. R. C.
White & Bro., Inc.	Perth Amboy, N. J.	P. D. Co.
	Tottenville, N. Y.	C. T. C.
	Philadelphia, Pa.	C. C.

**MICHIGAN
SMELTING & REFINING
COMPANY**



DETROIT, MICHIGAN

Manufacturers of
RED AND YELLOW BRASS
AND BRONZE INGOTS,
BILLETS AND SLABS
BABBITT METALS, SOLDERS
RAILWAY BRASSES
ENGINE CASTINGS
BRASS FORGINGS
DIE CASTINGS
(All Alloys)
LEAD PIPE
BRAZING SPELTER
SPECIAL ALLOYS

Dealers In
ALL NON-FERROUS METALS
Purchasers and Refiners of
BRASS ASHES, SKIMMINGS
and
ALL COPPER BEARING MATERIALS

STANDARD SPECIFICATIONS FOR ELECTROLYTIC COPPER

The specifications for electrolytic copper wire bars, cakes, slabs, billets, ingots and ingot bars as adopted by the American Society for Testing Materials in 1911 and revised in 1913 (Serial Designation: B 5-13) provide:

1. All wire bars, cakes, slabs, and billets shall be stamped with the maker's brand and furnace charge mark. Ingots and ingot bars shall have a brand stamped or cast in, but need have no furnace charge mark.

2. The refiner shall arrange carloads or lots so that as far as possible each shall contain pieces from but one furnace charge in order to facilitate testing by the user.

3. (a) Metal Content—The copper in all shapes shall have a purity of at least 99.88 per cent., as determined by electrolytic assay, silver being counted as copper.

(b) Resistivity—All wire bars shall have a resistivity not to exceed 0.15535 international ohms per meter-gram at 20° C. (annealed); all ingots and ingot bars shall have a resistivity not to exceed 0.15694 international ohms per meter-gram at 20° C. (annealed).

Cakes, slabs, and billets shall come under the ingot classification, except when specified for electrical use at time of purchase, in which case wire-bar classification shall apply.

4. Wire bars, cakes, slabs and billets shall be substantially free from shrink holes, cold sets, pits, sloppy edges, concave tops, and similar defects in set or casting. This clause shall not apply to ingot or ingot bars, in which case physical defects are of no consequence.

5. Five per cent variation in weight or 1/4-inch variation in any dimension from the refiner's published list or purchaser's specified size shall be considered good delivery; provided, however, that wire bars may vary in length 1 per cent. from the listed or specified length, and cakes 3 per cent. from the listed or specified size in any dimension greater than 8 inches. The weight of ingot and ingot-bar copper shall not exceed that specified by more than 10 per cent., but otherwise its variation is not important.

A. W. MILLHAUSER
25 BROADWAY

C O P Y

**Tin
Lead
Antimonial Lead**

**Correspondence
FAR EASTERN AND
Advances on**

Cable Address: HAUSERMILL,

CORPORATION

NEW YORK

P E R

Zinc

Arsenic

Antimony

Invited with

EUROPEAN SHIPPERS

Consignments

NEW YORK

General Copper Company, Inc.

543-551 West 25th Street

New York City

Importers & Dealers

in

NEW & SCRAP

METALS

Telephone, Chickering 4510

EXTRAS FOR SPECIAL COPPER SHAPES.

The following schedule of premiums is charged by the copper refineries for special shapes:

	Extra per ton
Listed square cakes:	
801 to 1,500 lbs.....	\$3.50
1,501 " 3,300 "	4.50
3,301 " 4,800 "	6.00
Listed bowl shape cakes.....	3.00
" round cakes	3.00
" slabs	1.50
" wire bars 300 to 500 lbs.	2.50
" wedge bars or cakes ...	3.50
Ingots 10 to 15 lbs.	4.00
" 20 to 25 "	1.00
Billets 4 in.	15.00
" 5 "	15.00
" 6 "	12.00
" 7 "	10.00
" 8 "	10.00

Standard Shapes.

Standard shapes of copper for which there is no premium, comprise the following:

Ingot bars 50 to 70 lbs.

Wire bars 85 to 260 lbs.

Square cakes 14" x 17" (148 lbs.) to
24" x 24" (800 lbs.) 2" to 4" thick.

Societe Generale des Minerais

Capital Frs. 35,000,000

Head Office:

31 Rue du Marais, Brussels

Cable Address: "SOGEMIOS - BRUSSELS"

Non-Ferrous METALS and ORES

- - *Specialties* - -

KATANGA

Copper and Tin

BELGIAN

Virgin Zinc

Pyrites

Hoboken Lead

COPPER PRICES IN NEW YORK.

Yearly high, low and average prices of Lake Copper in New York from 1862 to 1895 inclusive.

Year.	High.	Low.	Average.
1862	32.87½	20.75	21.87½
1863	38.75	29.00	33.87½
1864 Highest	55.00	39.00	47.00
1865	50.50	28.00	39.25
1866	42.00	26.50	34.25
1867	29.25	21.50	25.37½
1868	24.50	21.50	23.00
1869	27.00	21.50	24.25
1870	23.37½	19.00	21.19
1871	27.00	21.25	24.12½
1872	44.00	27.12½	35.56
1873	35.00	21.00	28.00
1874	25.00	19.00	22.00
1875	23.87½	21.50	22.69
1876	23.25	18.75	21.00
1877	20.50	17.50	19.00
1878	17.62½	15.50	16.56
1879	21.75	15.50	18.62½
1880	25.00	17.87½	21.50
1881	20.37½	16.00	18.25
1882	20.37½	17.87½	18.50
1883	18.12½	14.87½	15.87½
1884	15.00	11.00	13.75
1885	11.50	9.75	11.10
1886	12.12½	10.00	11.00
1887	17.75	9.12½	11.25
1888	17.50	15.75	16.80
1889	17.50	11.00	13.75
1890	17.25	14.00	15.75
1891	15.00	10.25	12.87½
1892	12.37½	10.50	11.50
1893	12.50	9.62½	10.65
1894 Lowest ..	10.25	9.00	9.43
1895	12.75	9.25	10.70

MOHAWK MINING COMPANY

of Michigan

PRIME LAKE COPPER

"M M" & "W"

L. P. YANDELL, Pres.

15 William St., New York

Sells Product of Above Company

COPPER PRICES IN NEW YORK.

Yearly high, low and average prices of Lake Copper in New York.

Year.	High.	Low.	Average.
1896	11.75	9.75	10.92
1897	12.00	10.75	11.30
1898	12.87½	10.87½	12.01
1899	19.50	13.00	17.75
1900	17.25	16.00	16.70
1901	17.00	13.00	16.77
1902	13.50	11.00	12.14
1903	15.37½	12.00	13.72
1904	15.37½	12.00	13.24
1905	20.00	14.87½	16.09
1906	25.00	18.37½	19.87
1907	26.25	12.50	21.30
1908	14.62½	12.62½	13.50
1909	14.62½	12.75	13.39
1910	14.00	12.50	13.12
1911	14.37½	12.20	12.71
1912	17.80	14.15	16.58
1913	17.75	14.50	15.70
1914	15.50	11.30	13.61
1915	23.00	13.00	17.64
1916	35.00	23.00	28.17
1917	36.00	23.50	29.18
1918	26.00	23.00	24.68
1919	24.00	15.25	19.49
1920	20.50	13.75	18.01
1921	14.00	12.00	12.98
1922	15.12½	12.75	13.78
1923	17.50	13.00	14.96
1924	15.12½	12.50	13.45
1925	15.25	13.37½	14.44

Average price for 30 years..... 16.24

Note: Government prices: 23.50c, effective from Sept. 21, 1917; 26.00c effective from July 2, 1918 to end of year.

COPPER RANGE LAKE C R COPPER

For the manufacture of

**COPPER, BRASS AND BRONZE
castings of high strength and
quality, fire-box plates, stay-bolts
and tubes for locomotives, etc.**

COPPER RANGE COMPANY

**Sales Department
52 BROADWAY
NEW YORK**

Cable Address: Copperange, New York

LAKE COPPER PRICES.

Monthly average prices of Lake Copper in New York.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	14.37	16.89	14.76	13.89	24.10	29.83	23.50	21.75	19.76	13.53	13.76	14.92	12.94	15.17
Feb.	14.38	15.37	14.98	14.72	27.44	34.04	23.50	17.87	19.09	13.33	13.24	15.76	13.18	14.96
Mar.	14.87	14.96	14.72	15.11	27.42	35.33	23.50	15.48	18.87	12.58	13.03	17.26	13.96	14.45
April	15.98	15.55	14.68	17.43	28.91	32.46	23.50	15.73	19.05	12.89	12.91	17.13	13.65	13.64
May	16.27	15.73	14.44	18.81	29.28	31.90	23.50	16.30	18.85	13.12	13.42	16.12	13.23	13.67
June	17.43	15.08	14.15	19.92	27.44	31.35	23.50	17.93	18.55	13.04	13.97	15.24	12.77	13.73
July	17.37	14.77	13.73	19.42	25.81	29.78	25.89	22.08	18.83	12.75	14.07	14.95	12.82	14.34
Aug.	17.61	15.79	12.68	17.47	26.58	28.75	26.00	22.96	18.72	12.11	14.09	14.39	13.62	14.84
Sept.	17.69	16.72	12.43	17.76	27.86	26.19	26.00	22.48	18.53	12.23	14.19	13.95	13.41	14.81
Oct.	17.69	16.81	11.66	17.92	28.37	23.50	26.00	21.94	16.87	13.01	14.16	13.26	13.24	14.66
Nov.	17.66	15.90	11.93	18.86	31.71	23.50	26.00	20.49	14.97	13.30	14.07	13.34	13.94	14.70
Dec.	17.62	14.82	13.16	20.37	33.07	23.50	25.28	18.88	14.05	13.80	14.46	13.24	14.60	14.26
Av.	16.58	15.70	13.61	17.64	28.17	29.18	24.68	19.49	18.01	12.98	13.78	14.96	13.45	14.44

PHELPS DODGE CORPORATION

**99 JOHN STREET
NEW YORK**

—

COPPER

—

BRAND

"C★Q" ELECTROLYTIC

ELECTROLYTIC COPPER PRICES.

Extreme price fluctuations of Electrolytic copper in New York, by months and years.

	1924			1925		
	High.	Low.	Av.	High.	Low.	Av.
Jan.	12.87½	12.40	12.59	15.10	14.55	14.79
Feb.	13.40	12.40	12.85	14.80	14.25	14.54
Mar.	14.00	13.12½	13.65	14.60	13.35	14.17
Apr.	13.60	13.00	13.36	13.65	13.15	13.45
May	13.25	12.55	12.93	13.60	13.40	13.50
June	12.75	12.25	12.49	13.60	13.30	13.47
July	13.15	12.12½	12.57	14.25	13.65	14.07
Aug.	13.60	12.75	13.31	14.75	14.30	14.57
Sept.	13.50	12.70	13.08	14.60	14.20	14.46
Oct.	13.40	12.75	13.04	14.60	14.25	14.42
Nov.	13.95	13.50	13.70	14.70	14.15	14.48
Dec.	14.90	13.95	14.32	14.15	13.85	13.96

Extreme Prices for Twenty Years:

	High.	Low.	Average.
1906.....	25.00	18.37½	19.77
1907.....	26.00	12.25	20.86
1908.....	14.50	12.37½	13.39
1909.....	14.37½	12.25	13.11
1910.....	13.80	12.20	12.88
1911.....	14.25	12.00	12.55
1912.....	17.75	13.95	16.48
1913.....	17.60	14.12½	15.52
1914 Lowest	14.87½	11.10	13.31
1915.....	23.00	12.80	17.47
1916.....	36.00	23.00	28.46
1917 Highest	37.00	23.50	29.19
1918.....	26.00	23.00	24.68
1919.....	23.50	14.75	18.90
1920.....	19.50	12.75	17.50
1921.....	13.75	11.50	12.65
1922.....	14.62½	12.50	13.56
1923.....	17.25	12.45	14.61
1924.....	14.90	12.12½	13.16
1925.....	15.10	13.15	14.16

Average price for 20 years..... 17.11

Standard Underground Cable Company

General Offices, Pittsburgh, Pa.

Manufacturers of

Copper, Brass and Bronze Wire
Copper, Brass and Bronze Rods
Copper and Brass Tubes
Copper Clad Steel Wire **—C.C.C.—**
Rubber Insulated Wire
Magnet and Weatherproof Wire
Varnished Cambric Insulated Cables
Fibre Insulated, Leaded Cables
Paper Insulated, Leaded Cables
Rubber Insulated, Leaded Cables
Armored Cables of all kinds
Outdoor and Indoor Cable Terminals
Cable Junction and Joint Boxes
"Ozite" Insulating Compounds
Miscellaneous Cable Accessories

Branch Offices:



Pittsburgh	St. Louis
Atlanta	Chicago
Washington	Detroit
Philadelphia	Seattle
New York	San Francisco
Boston	Los Angeles
Kansas City	

For Canada: Standard Underground Cable Co.
of Canada, Limited, Hamilton, Ont.

ELECTROLYTIC COPPER PRICES.

Monthly average prices of Electrolytic Copper in New York.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	14.27	16.75	14.45	13.71	24.10	30.26	23.50	20.05	19.02	12.85	13.60	14.66	12.59	14.79
Feb.	14.26	15.27	14.67	14.57	27.46	35.22	23.50	16.91	18.61	12.79	12.97	15.50	12.85	14.54
Mar.	14.78	14.92	14.33	14.96	27.44	35.74	23.50	15.01	18.36	12.23	12.84	16.96	13.65	14.17
Apr.	15.85	15.48	14.34	17.09	29.31	32.19	23.50	15.40	18.54	12.54	12.71	16.81	13.36	13.45
May	16.16	15.63	14.13	18.60	29.81	32.32	23.50	16.00	18.28	12.83	13.29	15.63	12.93	13.50
June	17.29	14.85	13.81	19.71	27.49	32.57	23.50	17.65	17.97	12.76	13.71	14.88	12.49	13.47
July	17.35	14.57	13.49	19.08	25.60	28.90	25.89	21.71	18.61	12.35	13.90	14.59	12.57	14.07
Aug.	17.60	15.68	12.41	17.22	27.36	27.13	26.00	22.22	18.44	11.76	13.96	14.05	13.31	14.57
Sept.	17.67	16.55	12.08	17.70	28.26	25.45	26.00	21.95	18.04	12.10	13.88	13.60	13.08	14.46
Oct.	17.60	16.54	11.40	17.86	28.64	23.50	26.00	21.50	16.30	12.75	13.80	12.81	13.04	14.42
Nov.	17.49	15.47	11.74	18.83	32.22	23.50	26.00	19.96	14.39	13.16	13.79	12.89	13.70	14.48
Dec.	17.50	14.47	12.93	20.35	33.84	23.50	25.28	18.48	13.48	13.67	14.22	12.98	14.32	13.96
Av.	16.48	15.52	13.31	17.47	28.46	29.19	24.68	18.90	17.50	12.65	13.56	14.61	13.16	14.16

**Adolph Lewisohn & Sons,
Incorporated**

61 Broadway,

New York

**High Grade
Electrolytic
COPPER**

Agents for

The Miami Copper Co.

Tennessee Copper Co.

PRODUCERS' PRICES OF ELECTROLYTIC COPPER.

Monthly averages of producers' quotations on Electrolytic Copper, delivered Connecticut points.

	1920.	1921.	1922.	1923.	1924.	1925.
January	19.25	12.98	13.75	14.75	12.69	14.99
February	19.02	12.89	13.24	15.60	12.99	14.70
March	18.71	12.37	12.92	17.14	13.79	14.30
April	19.24	12.70	12.85	17.09	13.48	13.52
May	19.14	13.01	13.37	15.86	13.04	13.60
June	19.07	13.06	13.87	15.00	12.59	13.64
July	19.00	12.64	13.94	14.65	12.66	14.19
August	18.99	11.98	13.99	14.14	13.47	14.76
September	18.74	12.24	14.00	13.65	13.20	14.66
October	16.66	12.96	13.94	12.88	13.17	14.52
November	14.77	13.31	13.87	13.04	13.81	14.61
December	14.00	13.79	14.32	13.17	14.48	14.08
Average	18.05	12.83	13.67	14.75	13.28	14.30

BALBACH SMELTING & REFINING COMPANY

ESTABLISHED 1852

WORKS:
Newark, N. J.

OFFICES:
Newark, N. J.
280 Broadway, N. Y.

BALBACH-METALS CORPORATION

ESTABLISHED 1922

280 BROADWAY NEW YORK

SMELTERS AND REFINERS

Bullion, Ores, Residues and Scrap
containing:

Gold - Silver - Platinum - Copper
Lead - Antimony

OUR PRODUCTS

Gold - Silver - Platinum (Sponge)
Copper - Copper Sulphate
Lead (Desilverized)
Antimonial Lead - Brass Ingots
Babbitts

*Inquiries solicited on standard or special
metallurgical operations*

CASTING COPPER PRICES.

Monthly average prices of Casting Copper in New York.

	1912.	1913.	1914.	1915.	1916.	1917.	1918	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	14.02	16.57	14.27	13.52	23.06	28.04	23.50	18.48	18.81	12.61	12.96	14.30	12.46	14.38
Feb.	14.02	15.14	14.48	14.17	26.03	31.73	23.50	16.45	18.21	12.45	12.61	15.15	12.73	14.21
Mar.	14.53	14.76	14.18	14.34	25.90	32.18	23.50	14.82	18.11	11.83	12.54	16.64	13.46	13.80
April	15.72	15.33	14.18	16.48	27.16	29.24	23.50	15.06	18.40	11.81	12.46	16.60	13.16	13.19
May	16.01	15.45	14.00	17.41	27.37	30.11	23.50	15.49	18.16	12.24	12.84	15.45	12.63	13.07
June	17.08	14.72	13.65	18.74	25.10	30.36	23.50	17.17	17.65	12.08	13.34	14.57	12.31	13.09
July	17.09	14.40	13.34	17.76	23.61	27.59	25.89	21.10	18.12	11.68	13.34	14.30	12.42	13.54
Aug.	17.35	15.50	12.27	16.46	24.67	26.58	26.00	21.71	18.00	11.43	13.43	13.81	13.10	14.11
Sept.	17.51	16.57	12.00	16.75	25.93	25.37	26.00	21.28	17.76	11.75	13.39	13.41	12.88	14.07
Oct.	17.44	16.33	11.29	17.32	27.17	23.50	26.00	20.66	16.01	12.43	13.39	12.55	12.73	13.79
Nov.	17.34	15.19	11.63	18.41	30.37	23.50	26.00	19.37	14.12	12.53	13.40	12.69	13.35	13.91
Dec.	17.34	14.22	12.83	19.73	31.74	23.50	25.28	18.21	13.12	12.97	13.81	12.77	13.98	13.47
Av.	16.29	15.33	13.18	16.76	26.51	27.64	24.68	18.32	17.21	12.15	13.13	14.35	12.93	13.72

Brass Bronze Nickel Silver

Sheets Rod Wire
Seamless Tubing

Manufactured Goods
to Order

Brass Mill Specialties:

Scovill High Speed Brass Rod
Scovill Special Spring Bronze
Scovill Cup Drawn Admiralty
Condenser Tubing

Manufacturing experience learned in our 124 years of experience together with a fine technical and mechanical staff are at the disposal of our customers.

SCOVILL MANUFACTURING CO.
WATERBURY, CONN.

New York
Chicago

Boston
Cleveland
Atlanta

Philadelphia
San Francisco
Los Angeles



Member Copper & Brass Research Association

WATERBURY COPPER AVERAGES.

	1914.	1915.	1916.	1917.	*1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. .	14.75	14.12½	24.75	32.25	23.50	23.00	19.25	13.75	13.87½	14.87½	13.00	15.12½
Feb. .	15.12½	15.25	27.75	35.25	23.50	18.00	19.12½	13.50	13.37½	15.75	13.12½	15.00
Mar. .	15.00	15.75	28.00	35.50	23.50	15.50	18.87½	12.62½	13.12½	17.25	13.87½	14.37½
Apr. .	14.87½	18.50	29.00	32.75	23.50	15.50	19.12½	12.75	13.00	17.12½	13.62½	13.62½
May .	14.75	22.50	29.87½	32.00	23.50	16.37½	19.00	13.12½	13.37½	16.12½	13.25	13.62½
June .	14.37½	22.50	28.25	32.50	23.50	17.75	18.50	13.12½	14.00	15.25	12.75	13.75
July .	14.12½	22.25	27.25	30.87½	26.00	22.00	19.00	12.87½	14.12½	15.00	12.75	14.25
Aug. .	13.00	19.50	27.00	29.00	26.00	23.00	18.75	12.25	14.12½	14.50	13.62½	14.87½
Sept. .	12.87½	18.50	28.00	27.25	26.00	22.50	18.75	12.37½	14.25	14.00	13.37½	14.87½
Oct. .	12.25	18.25	28.87½	27.00	26.00	22.25	16.87½	13.12½	14.25	13.25	13.25	14.62½
Nov. .	12.25	19.37½	33.25	*23.50	26.00	21.00	15.25	13.37½	14.12½	13.37½	13.87½	14.75
Dec. .	13.50	20.75	34.25	*23.50	26.00	18.75	14.25	13.87½	14.50	13.25	14.62½	14.25
Av. . .	13.91	18.94	28.85	30.11	24.75	19.63	18.06	13.06	13.84	14.98	13.43	14.43

* F.o.b. New York; all other prices f.o.b. eastern mills.

Rome-Wire

“Rome Wire” Products

Antenna Wire	Rods (Black or Cleaned)
Automobile Wires and Cables	RomeX
Bare Copper Wire	Rubber Covered Wire
Wires and Cables	Code Wire
Extra Flexible	Intermediate
Flexible	30%
Heater Cords	Signal Wire
Lamp Cords, Cotton	Special Flexible Cords
Lamp Cords, “Rome Glos”	Super-Service Cords and Cables
Lead Covered Cables	Slow Burning Wire
Locomotive Gathering Cables	Telephone Wire
Magnet Wire	Tinned Copper Wire
Mining Machine Cable	Tinned and Bare
Piano Covering Wire	Copper Cable
Power Cable (Bare and Tinned Copper)	Trolley Wire
	Weatherproof Wire
	Special Wires and Cables

ROME WIRE COMPANY

Mills and Executive Offices at Rome, N. Y.

Diamond Branch Plant at Buffalo, N. Y.

DISTRICT SALES OFFICES

New York, N. Y	50 Church Street
Chicago, Ill.	14 E. Jackson Blvd.
Detroit, Mich	25 Parsons Street
Boston, Mass.	1011 Little Bldg.
Los Angeles, Cal. ..	J. G. Pomeroy, 336 Azusa Street
Cleveland, Ohio	1200 West 9th Street
San Fran., Cal.	J. G. Pomeroy, 51 Federal Street

COPPER WIRE PRICES.

Base prices of copper wire prevailing on the first business day of each month from January 1, 1912 to and including December 1, 1925.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	15.25	18.50	16.00	14.50	23.50	36.75	26.25	22.75	22.00	16.25	15.50	17.00	15.87½	17.12½
Feb.	15.50	17.50	16.00	15.75	27.25	36.75	26.25	21.75	23.00	15.75	15.50	17.25	15.25	17.37½
Mar.	15.50	16.00	15.75	15.75	29.25	36.75	26.25	18.25	23.00	15.50	14.75	19.12½	16.00	16.87½
Apr.	16.50	16.00	15.50	16.75	28.50	36.75	26.25	17.00	23.00	15.00	14.75	19.87½	16.00	16.00
May	17.00	16.75	15.50	20.00	31.50	34.75	26.25	17.25	23.00	15.00	14.75	19.87½	16.00	16.00
June	17.75	16.75	15.25	20.00	32.50	32.75	26.25	18.50	23.00	15.75	15.75	18.50	15.37½	16.00
July	18.75	16.00	14.50	21.00	32.50	33.75	28.25	21.00	23.00	15.25	15.75	18.00	14.87½	16.00
Aug.	18.75	16.00	14.50	20.00	30.50	31.75	29.00	26.75	23.00	14.25	15.75	17.25	15.50	16.50
Sept.	18.75	16.75	13.50	19.00	30.75	29.75	29.00	26.75	23.00	13.75	16.00	16.50	16.00	17.00
Oct.	18.75	17.75	13.00	19.00	31.75	29.75	29.00	26.75	23.00	14.00	16.00	16.12½	15.12½	17.00
Nov.	18.75	17.75	12.50	19.00	31.75	28.75	29.00	25.75	22.00	15.00	16.00	15.00	15.62½	17.00
Dec.	18.50	16.00	14.00	21.00	35.75	27.75	29.00	21.75	17.00	15.50	16.00	15.87½	16.12½	16.62½

ESTABLISHED 1860

**T. E. CONKLIN
BRASS & COPPER
COMPANY**

NEW YORK

Brass - Copper

LOW BRASS and BRONZE

in Sheets, Rolls, Wire, Rods & Tubes

**ANGLES, CHANNELS, NICKEL
SILVER, PHOSPHOR BRONZE
NAVAL BRONZE RODS, SOL-
DERING COPPERS, SEAMLESS
BRASS AND COPPER TUBES
SCREEN-CLOTH, NAILS, BURS
RIVETS, PIPE AND FITTINGS**

Immediate Shipment from Stock

TELEPHONE FRANKLIN 2900

SHEET COPPER PRICE CHANGES.

Changes in the base price of sheet copper, compiled from manufacturers' records, with the price of Lake copper in New York on the same dates:

	Sheet Copper	Lake Copper		Sheet Copper	Lake Copper
1912—			1919—		
High ..	23.00	17.80	June 5.	24.25	17.25
Low ...	19.00	14.15	" 12.	25.50	18.12½
1913—			" 26.	27.50	18.75
High ..	23.00	17.75	July 2.	28.50	19.75
Low ...	19.75	14.50	" 8.	29.00	20.25
1914—			" 10.	29.50	20.62½
High ..	20.25	15.50	" 15.	31.50	22.25
Low ...	16.50	11.30	" 18.	32.50	23.25
1915—			" 23.	33.50	23.75
High ..	27.50	23.00	Oct. 20.	32.50	22.00
Low ...	18.50	13.00	Nov. 12.	31.50	21.25
1916—			" 20.	30.00	20.00
High ..	42.00	35.00	1920—		
Low ...	29.00	23.00	Jan. 7.	29.50	20.00
1917—			Oct. 11.	28.50	17.75
Apr. 23.	40.00	30.75	Dec. 1.	28.50	18.75
May 22.	38.00	32.00	" 18.	26.50	16.50
June 18.	39.00	31.50	" 25.	25.50	15.50
July 20.	37.00	28.50	" 30.	24.50	15.50
Aug. 31.	35.00	27.50	Nov. 8.	23.50	15.50
Oct. 27.	34.00	23.50	Dec. 1.	22.50	14.00
Nov. 12.	33.00	23.50	1921—		
Dec. 7.	31.50	23.50	Jan. 1.	21.50	13.75
1918—			" 10.	21.25	13.75
June 25.	33.50	23.50	Feb. 23.	20.75	13.12½
July 3.	34.25	26.00	Mar. 8.	20.50	12.62½
Sept. 9.	35.25	26.00	Apr. 7.	20.25	12.87½
1919—			" 18.	20.75	12.87½
Jan. 2.	29.00	23.00	May 24.	21.50	13.25
Feb. 3.	28.00	19.50	June 16.	21.25	13.00
" 11.	27.00	18.00	July 6.	21.00	12.93½
" 19.	24.50	17.75	" 12.	20.75	12.93½
Mar. 3.	23.50	16.00	" 30.	20.25	12.50
" 10.	22.50	15.50	Aug. 8.	20.00	12.00
May 13.	23.00	16.12½	Sept. 1.	19.50	12.12½
" 14.	23.50	16.12½	Oct. 4.	20.50	12.62½
" 20.	24.00	17.00	Nov. 16.	21.00	13.31½
			Dec. 1.	21.25	13.50

Hendricks Brothers Inc.

**Sheet and Bar
Copper**

**Copper Firebox
Plates and Staybolts
Braziers' Rivets**

Copper Rods

**IMPORTERS
AND DEALERS IN**

**Ingot Copper, Block Tin,
Spelter, Lead, Antimony
Bismuth**

49 Cliff Street, New York

SHEET COPPER PRICE CHANGES.

Changes in the base price of sheet copper, compiled from manufacturers' records, with the price of Lake copper in New York on the same dates:

			Sheet Copper	Lake Copper				Sheet Copper	Lake Copper
1922—					1924—				
Feb.	17.	20.75	13.12½		Mar.	31.	21.25	13.62½	
"	25.	20.25	13.00		Apr.	28.	20.75	13.62½	
Apr.	20.	19.25	12.87½		May	16.	20.25	13.18¾	
May	16.	19.75	13.25		June	18.	19.50	12.75	
"	22.	20.25	13.75		July	1.	19.50	12.62½	
June	1.	20.50	14.12½		"	22.	19.50	12.93¾	
July	10.	21.00	14.00		"	23.	19.87½	13.00	
Aug.	29.	21.50	14.00		"	28.	20.12½	13.25	
Dec.	14.	21.75	14.25		Aug.	11.	20.37½	13.75	
"	19.	22.00	14.87½		"	14.	20.62½	13.81½	
"	26.	22.25	14.87½		Sept.	23.	20.12½	13.25	
1923—					Oct.	20.	20.37½	13.18¾	
Jan.	29.	22.50	15.12½		"	27.	20.62½	13.50	
Feb.	10.	22.75	15.18¾		Nov.	5.	20.87½	13.68¾	
"	15.	23.25	15.50		"	11.	21.12½	14.00	
"	17.	23.50	15.62½		"	13.	21.37½	14.00	
"	19.	23.75	16.00		Dec.	2.	21.62½	14.25	
"	24.	24.12½	16.50		"	15.	21.87½	14.56½	
"	26.	24.50	16.87½		"	16.	22.12½	14.62½	
Mar.	3.	24.75	17.25		"	22.	22.37½	14.93¾	
"	20.	25.25	17.37½		"	24.	22.75	14.93¾	
"	29.	25.50	17.37½		1925—				
May	15.	24.25	16.00		Jan.	13.	23.00	15.25	
June	26.	23.75	15.12½		Feb.	27.	22.50	14.75	
Aug.	7.	22.75	14.75		Mar.	19.	22.25	14.37½	
"	22.	22.25	14.31½		"	26.	22.00	14.25	
Sept.	18.	21.75	13.87½		"	30.	21.75	13.75	
Oct.	8.	21.25	13.37½		Apr.	17.	21.25	13.37½	
"	26.	20.25	13.12½		"	24.	21.75	13.75	
Nov.	7.	20.50	13.00		July	8.	22.00	14.12½	
"	9.	20.75	13.50		"	15.	22.25	14.37½	
"	13.	21.00	13.68¾		Aug.	3.	22.50	14.62½	
1924—					"	7.	22.75	14.75	
Jan.	11.	20.50	12.87½		Oct.	26.	23.00	14.75	
Feb.	15.	21.00	13.37½		Nov.	4.	23.25	14.87½	
Mar.	3.	21.75	14.12½		"	28.	22.75	14.37½	
					Dec.	15.	22.50	14.25	

Philipp Bros., Inc.

233 Broadway

(Woolworth Bldg.)

New York

***Non-Ferrous
Metal Scrap***

***Ores and
Residues***

Chemicals

Agents

London - Paris - Berlin - Hamburg

Milan - Constantinople - Brussels

EXPORTS OF BRASS.

Exports of domestic brass in ingots, bars, plates, sheets, scrap and manufactures from the United States, according to the returns of the Department of Commerce; in pounds.

	Ingots, Bars, Plates and Sheets.	Scrap.
1911	2,303,903†	18,818,641†
1912	6,862,546	28,870,392
1913	6,111,463	21,886,259
1914	7,115,807	20,639,401
1915	66,272,110	11,256,672
1916	244,531,706	6,956,212
1917	328,346,666	8,298,989
1918	30,989,717	4,909,820
1919	7,770,671	1,321,767
1920	5,810,733	2,060,468
1921	2,874,762	5,938,002
1922	3,660,340	6,293,743
1923	3,465,739	13,173,348
1924	4,529,257	58,588,467
1925	†7,975,053	†96,342,452

	Wire.	Pipes and Tubes.	Other manufactures.
1917 ..	†1,804,741	.....	.....
1918 ..	1,748,883	.....	.....
1919 ..	1,115,908	.....	.....
1920 ..	1,159,087	.....	.....
1921 ..	578,836	.....	.....
1922* .	1,230,307	2,845,174	7,968,853
1923* .	1,447,488	2,561,164	10,354,875
1924* .	883,831	2,058,016	10,023,980
1925* .	1,182,172	2,823,427	11,838,364

† For the period July to December.

* Includes bronze products.

‡ Ingots included with scrap.



THE trademark of the Anaconda organization identifies Copper and Copper Alloys in which the highest skill in manufacture is combined with the accumulated knowledge and experience of more than a century.

One organization is responsible for the whole process of mining, smelting and manufacturing, thereby insuring the utmost in quality at every stage from mine to consumer.

The location of our mills with definite regard to country-wide service makes prompt deliveries possible.

ANACONDA COPPER MINING CO.

25 Broadway, New York

THE AMERICAN BRASS COMPANY

General Offices: Waterbury, Conn.

HIGH SHEET BRASS PRICES.

Base prices of High Sheet Brass prevailing on the first business day of each month from January 1, 1914 to and including December 1, 1925.

	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	14.75	13.75	28.25	38.50	26.75	24.75	24.25	19.25	16.75	19.00	17.75	19.37½
Feb.	14.75	15.50	32.25	38.50	26.75	23.75	25.25	18.75	16.75	19.25	17.25	19.62½
Mar.	14.50	16.00	34.25	38.50	26.75	19.25	25.25	17.75	16.25	20.87½	17.75	19.12½
April	14.25	17.12½	34.75	36.50	26.75	18.75	25.25	17.25	16.25	21.75	17.75	18.12½
May	14.25	20.50	35.75	35.25	26.75	18.75	25.25	17.25	15.75	21.75	17.25	18.12½
June	14.25	*24.25	*36.75	33.25	26.75	19.75	25.25	16.25	16.75	20.50	16.75	18.12½
July	13.87½	*25.37½	*36.75	33.25	28.25	22.75	25.25	16.25	16.75	19.75	16.25	18.12½
Aug.	13.50	*26.25	*36.75	33.25	28.75	27.75	25.25	15.75	17.75	19.75	16.75	18.62½
Sept.	13.12½	*26.25	*36.75	31.25	28.75	27.75	25.25	15.25	18.25	18.50	17.25	19.12½
Oct.	12.75	*26.25	*36.75	31.25	29.25	27.75	25.25	15.25	18.25	18.00	16.87½	19.12½
Nov.	12.25	*26.25	*36.75	30.25	30.00	26.75	22.25	16.25	18.50	17.00	17.37½	19.37½
Dec.	13.25	*26.25	38.50	28.75	30.00	24.25	20.25	16.75	18.50	17.75	18.12½	19.37½

* Market nominal. (Price changes in 1925 shown on page 303.)

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FABRICATED BRASS AND BRONZE PRICES.

Changes in the base prices of brass and bronze sheets, wire, rods and seamless tubes during 1925, compiled from manufacturers' records.

	Sheet Metal			Wire			Rods			Seamless Tubes —		
	High	Low	Rich	Low	High	Com.	Low	High	Com.	Low	High	Com.
1925.	Brass.	Brass.	Brass.	Brass.	Brass.	merc.	Brass.	Brass.	merc.	Brass.	Brass.	merc.
Opened	19 3/8	21 1/8	21 3/4	23 1/8	19 7/8	23 5/8	21 5/8	17 3/8	23 3/8	21 7/8	24 1/4	26 1/4
Jan. 13	19 5/8	21 3/8	22	23 3/8	20 1/8	23 7/8	21 7/8	17 5/8	24 1/8	22 1/8	24 1/4	26 1/4
Feb. 27	19 1/8	20 7/8	21 1/2	22 7/8	19 5/8	23 3/8	21 3/8	17 1/8	23 5/8	21 5/8	23 3/4	25 3/4
Mar. 19	18 5/8	20 3/8	21	22 3/8	19 1/8	22 7/8	20 7/8	16 3/8	23 1/8	21 1/8	23 1/4	25 1/4
Mar. 26	18 3/8	20 1/8	20 3/4	22 1/8	18 7/8	22 5/8	20 5/8	16 1/8	22 7/8	20 7/8	23	25 1/4
Mar. 30	18 1/8	19 7/8	20 1/2	21 7/8	18 5/8	22 3/8	20 3/8	15 7/8	22 5/8	20 5/8	22 3/4	24 3/4
Apr. 17	17 3/4	19 1/2	20	21 3/8	18 1/4	21 7/8	20	15 1/2	22 1/8	20 1/4	22 1/4	24 1/4
Apr. 24	18 3/8	19 7/8	20 1/2	21 7/8	18 5/8	22 3/8	20 3/8	15 7/8	22 5/8	20 5/8	22 3/4	24 3/4
July 8	18 3/8	20 1/8	20 3/4	22 1/8	18 7/8	22 5/8	20 5/8	16 1/8	22 7/8	20 7/8	23	25 1/4
July 15	18 5/8	20 3/8	21	22 3/8	19 1/8	22 7/8	20 7/8	16 3/8	23 1/8	21 1/8	23 1/4	25 1/4
Aug. 3	18 7/8	20 5/8	21 1/4	22 5/8	19 3/8	23 1/8	21 1/8	16 5/8	23 3/8	21 3/8	23 1/2	25 1/2
Aug. 7	19 1/8	20 7/8	21 1/2	22 7/8	19 5/8	23 3/8	21 3/8	16 7/8	23 5/8	21 5/8	23 3/4	25 3/4
Oct. 26	19 3/8	21 1/8	21 3/4	23 1/8	19 7/8	23 5/8	21 5/8	17 1/8	23 7/8	21 7/8	24	26 1/4
Nov. 4	19 5/8	21 3/8	22	23 3/8	20 1/8	23 7/8	21 7/8	17 3/8	24 1/8	22 1/8	24 1/4	26 1/4
Nov. 28	19 3/8	20 7/8	21 1/2	22 7/8	19 7/8	23 3/8	21 3/8	17 1/8	23 5/8	21 5/8	24	25 3/4
Dec. 15	19 1/8	20 5/8	21 1/4	22 5/8	19 5/8	23 1/8	21 1/8	16 7/8	23 3/8	21 3/8	23 3/4	25 1/2
High ..	19 5/8	21 3/8	22	23 3/8	20 1/8	23 7/8	21 7/8	17 5/8	24 1/8	22 1/8	24 1/4	26 1/4
Low ..	17 3/4	19 1/2	20	21 3/8	18 1/4	21 7/8	20	15 1/2	22 1/8	20 1/4	22 1/4	24 1/4

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COPPER PRICES IN LONDON.

Extreme prices and annual averages of
G. M. B. and Standard copper in London:

Year.	High.			Low.			Average.		
1889..	£80	0s	0d	£35	10s	0d	£49	14s	8d
1890..	61	12	6	46	10	0	54	5	3
1891..	56	10	0	44	0	0	51	9	4
1892..	48	0	0	43	10	0	45	13	2
1893..	46	15	0	40	12	6	43	15	6
1894..	43	0	0	37	16	3	40	7	4
1895..	47	7	6	38	12	6	42	19	7
1896..	50	10	0	40	10	0	46	18	1
1897..	51	15	0	47	0	0	49	2	7
1898..	57	8	9	49	10	0	51	16	7
1899..	79	2	6	58	1	3	73	13	9
1900..	78	7	6	70	15	0	73	12	6
1901..	72	17	6	47	0	0	66	19	8
1902..	57	0	0	45	2	6	52	11	5
1903..	67	0	0	52	15	0	58	3	2
1904..	68	5	0	55	2	6	59	0	6
1905..	80	12	6	64	0	0	69	12	0
1906..	108	0	0	76	15	0	87	8	6
1907..	110	15	0	55	10	0	87	1	8
1908..	65	2	6	56	2	6	60	0	6
1909..	64	3	9	54	10	0	58	17	3
1910..	61	1	3	52	15	0	57	3	2
1911..	64	0	0	53	7	6	56	1	9
1912..	80	1	3	60	17	6	73	1	3
1913..	77	2	6	61	15	0	68	5	9
1914..	66	15	0	49	0	0	59	11	3
1915..	87	10	0	57	2	6	72	12	9
1916..	*153	0	0	84	0	0	116	1	3
1917..	140	0	0	110	0	0	125	2	5
1918..	122	10	0	100	0	0	115	11	6
1919..	117	10	0	73	10	0	90	19	4
1920..	122	5	0	70	0	0	97	12	4
1921..	75	5	0	65	5	0	69	8	7
1922..	66	2	6	57	0	0	62	3	6
1923..	76	12	6	59	2	6	65	18	1
1924..	68	15	0	60	7	6	63	4	2
1925..	67	18	9	59	1	3	61	19	8

* Highest. † Lowest.

STANDARD COPPER PRICES.

Monthly average prices of prompt Standard (G.M.B.) Copper in London.

	1919.			1920.			1921.			1922.			1923.			1924.			1925.		
	£	s	d	£	s	d	£	s	d	£	s	d	£	s	d	£	s	d	£	s	d
Jan. ..	93	9	9	118	4	1	71	1	4	65	4	9	64	11	2	61	6	8	66	2	7
Feb. ..	78	10	3	120	6	2	71	0	9	60	6	1	67	15	3	63	3	7	64	15	6
Mar. ..	76	17	7	109	11	11	67	13	3	59	6	2	73	18	4	66	3	11	62	19	1
Apr. ..	77	7	0	103	2	11	69	9	0	58	17	2	73	4	8	64	8	0	60	12	9
May ..	77	16	8	96	18	1	73	5	11	61	2	9	67	10	6	62	1	4	60	3	10
June ..	83	0	6	88	0	0	71	18	3	62	0	11	66	13	5	61	8	6	59	19	3
July ..	99	14	5	90	5	7	71	4	5	63	3	7	65	6	11	61	14	3	61	10	7
Aug. ..	97	11	4	94	1	1	68	12	8	63	16	10	64	1	8	63	10	10	62	13	6
Sept. ..	100	17	4	96	13	4	68	1	0	63	3	5	63	5	2	62	16	3	61	19	0
Oct. ...	103	11	0	93	10	1	67	8	1	62	16	5	60	13	6	62	14	0	62	0	10
Nov. ..	98	18	9	84	18	7	66	13	6	62	17	0	61	14	2	63	15	10	61	6	10
Dec. ..	103	17	2	75	16	8	66	15	4	63	6	10	62	1	11	65	6	11	59	12	1
Av. ...	90	19	4	97	12	4	69	8	7	62	3	6	65	18	1	63	4	2	61	19	8

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WORLD'S PRODUCTION OF TIN.

World's production of tin as reported by the Imperial Mineral Resources Bureau for the years 1918 to 1922 (with minor changes by the American Bureau of Metal Statistics) and by the Mining Journal for 1923, 1924 and 1925. The statistics are based on official reports and as far as possible are those of mine output, but for some countries, such as Bolivia, China, Siam and Nigeria, the figures represent exports. Where the output is given in the original sources in terms of tin-bearing concentrate—as, for example, it is for the Australian States—it is here given in terms of metal obtainable by smelting. In tons of 2,240 pounds.

Country—	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Federated Malay States	37,369	36,935	34,935	34,491	35,288	37,650	44,043	45,925
Nonfed. Malay States...	2,720	2,303	1,992	1,747	1,937	*2,000	*2,000	*2,500
Bolivia	29,104	28,745	27,821	18,804	31,616	28,734	32,135	32,980
Dutch East Indies	19,200	19,879	21,181	26,382	32,500	30,940	33,165	32,749
China	8,730	8,742	10,566	11,200	14,000	8,568	6,858	*8,500
Siam	8,835	8,542	6,201	6,150	6,979	6,334	7,256	6,802
Nigeria	5,904	5,718	5,168	5,057	5,123	5,912	6,162	6,186
Australia	4,747	4,331	5,233	3,592	2,570	*2,500	*2,500	2,800
Cornwall	3,954	3,272	3,065	679	370	1,021	1,986	*2,500
Union of South Africa ..	1,780	1,596	1,716	998	612	884	1,210	1,103
Other countries	895	2,989	4,168	4,355	4,213	3,105	2,787	4,323

Totals 123,238 123,052 122,046 113,455 135,208 127,648 140,102 146,368

* Estimated.

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AUSTRALIAN -- ENGLISH
TIN

JAPANESE -- CHINESE
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(Mitsui, Bussan, Kaisha, Ltd.)

METAL DEPARTMENT

65 BROADWAY, NEW YORK

Cable Address---Mitsui, New York

TIN SUPPLIES.

World's tin supplies as compiled by N. Y. Metal Exchange; in tons of 2,240 lbs.

Year.	from Straits Settlements.	from Australia.	from Bolivia.	from So. Africa.	from China.	Banka Shipments.	Billiton Shipments.	Production in Cornwall.	Grand Total.
1925	... \$79,155	1,186	30,240	\$7,200	\$8,000	\$14,177	nil	2,105	142,063
1924	... 78,695	2,083	27,800	6,800	7,632	15,272	*	1,200	139,482
1923	... 68,655	1,475	25,461	6,000	9,257	15,169	100	500	126,627
1922	... 62,800	1,400	25,900	6,200	8,000	13,900	170	500	118,870
1921	... 36,100	1,900	16,600	5,000	6,800	12,500	1,000	760	80,660
1920	... 45,000	3,300	29,600	5,700	7,200	13,000	2,100	3,000	108,900
1919	... 49,763	2,900	25,824	5,544	565	14,291	981	3,800	103,668
1918	... 55,334	3,345	27,183	5,889	8,000c	8,197	2,185	4,100c	114,233
1917	... 62,366c	1,483d	24,058	6,650	5,748	15,209c	1,304c	4,100	120,918
1916	... 61,600	2,650	19,400a	6,000	2,800b	17,800	2,500	4,500	117,250
1915	... 66,500	2,550	23,000	5,500	3,000	14,350	1,900	5,000	121,800
1914	... 63,000	1,800	18,750	5,000	1,900	9,300	1,250	6,000	107,000
1913	... 62,500	3,200	24,850	3,200	2,450	14,800	2,200	5,800	119,000
1912	... 59,000	3,800	21,200	3,100	3,800	16,000	2,200	5,500	114,600
1911	... 55,100	4,000	22,600	2,900	2,500	15,000	2,200	5,300	109,600

* Includes shipments to India and the East. † Estimated. (a) 15,100 tons to Europe; 4,300 tons to U. S. (b) 1,300 tons to Europe; 1,500 tons to U. S. (c) Partly estimated. (d) Arrivals in the United States. * Included in Banka.

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Orders executed for Tin, Copper, Lead or Spelter on the London Metal Exchange on conservative margins.

TIN SHIPMENTS FROM THE STRAITS SETTLEMENTS.

To Europe and the United States; based on Powell's returns through June, 1914, and the figures of the New York Metal Exchange thereafter; in tons of 2,240 pounds.

	1915.	1916.	1917.	*1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	5,200	6,095	4,815	4,000	3,340	3,910	1,055	5,823	6,255	7,960	7,635
Feb.	5,584	6,250	6,255	4,000	2,860	4,810	240	3,640	4,655	6,430	7,818
Mar.	4,970	5,170	5,134	6,000	2,254	2,795	915	5,168	6,020	6,327	4,440
Apr.	5,270	4,685	4,393	4,000	1,127	3,872	1,800	5,626	4,490	4,367	6,307
May	6,759	3,965	6,866	5,000	1,704	4,930	3,667	6,737	5,535	6,828	8,164
June	6,665	6,210	4,723	4,000	1,639	4,261	1,425	6,755	5,390	6,005	6,199
July	5,606	5,410	4,410	5,000	7,302	3,865	3,975	4,995	5,025	6,410	6,484
Aug.	4,712	4,526	5,770	4,000	8,829	3,798	3,165	5,308	5,190	6,842	6,725
Sept.	5,296	3,270	*5,000	7,000	5,465	4,529	5,300	4,730	6,415	5,152	4,990
Oct.	4,441	5,868	*5,000	3,000	4,431	3,340	4,525	5,675	6,655	5,551	6,626
Nov.	6,713	5,380	*5,000	5,000	4,135	2,630	4,065	6,295	5,605	8,188	7,820
Dec.	5,301	4,758	*5,000	4,000	6,677	2,225	5,920	4,655	7,430	8,635	5,744
Total ...	66,517	61,587	62,366	55,000	49,763	44,965	36,052	65,407	68,665	78,695	78,952

* Estimated.

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TIN DELIVERIES.

World's tin consumption as compiled by N. Y. Metal Exchange (gross tons):

	London Deliveries.	Continent of Europe.	Figured as delivered in Europe				United States.
			Cornwall Production.	Bolivia Shipments.	South African Shipments.	China Shipments.	
1925 .	18,977	31,296	2,105	34,191	7,200	1,200	76,455
1924 .	18,277	30,280	1,200	26,725	6,800	265	64,208
1923 .	18,546	22,797	500	22,800	6,000	450	72,815
1922 .	23,497	13,066	500	16,697	6,200	700	66,640
1921 .	18,665	8,700	760	7,811	5,000	3,800	34,699
1920 .	21,165	5,629	3,000	14,479	5,700	2,710	65,633
1919 .	19,037	10,656	3,800	14,228	5,544	400	43,897
1917 .	17,144	14,019	4,100	19,209	6,650	571	*62,730
1916 .	16,862	14,599	4,500	15,100	6,000	1,300	60,016
1915 .	25,148	16,871	5,000	23,000	5,500	3,000	50,387
1914 .	20,835	20,310	6,000	18,750	5,000	1,900	43,308
1913 .	17,897	25,631	5,800	24,850	3,200	2,450	45,551
1912 .	18,502	26,625	5,500	21,200	3,100	2,300	51,390
							*Grand Total.
							\$150,204
							‡135,405
							†130,558
							(a) 119,160
							74,996
							111,426
							97,562
							124,423
							118,377
							118,906
							107,502
							116,079
							120,137

† Estimated. ‡ 21,220 tons deducted representing English and other kinds arrived in U. S. from Europe. * Deducting Straits, etc., shipped to U. S. from the Continent and English tin arriving in U. S. † 13,350 tons deducted as English and other kinds arrived in U. S. from Europe. ‡ 12,350 tons deducted, representing English and other kinds arrived in U. S. from Europe. (a) 8,140 tons deducted as English and other kinds arrived in U. S., and ores in refineries for treatment.

Note—Owing to incomplete reports it has so far been impossible to compile statistics for 1918.

*Grand Total.
 \$150,204
 †135,405
 ‡130,558
 (a) 119,160
 74,996
 111,426
 97,562
 124,423
 118,377
 118,906
 107,502
 116,079
 120,137

SUPPLIES AND DELIVERIES OF TIN.

Compiled from monthly statistics issued by the New York and London Metal Exchanges.

Supplies—	1922.	1923.	Increase in 1923.	1924.	Increase in 1924.	1925.	Increase in 1925.
Straits	65,407	68,665	3,258	78,695	10,030	78,952	257
Australian	1,025	1,475	450	1,608	133	1,186	*422
Banka	13,891	15,169	1,278	15,098	*71	14,177	*921
Chinese	11,668	9,257	*2,411	7,534	*1,723	7,421	*113
Standard	6,270	12,942	6,672	13,825	883	17,928	4,103
Total Supplies...	98,261	107,508	9,247	116,760	9,252	119,664	2,904
Deliveries—							
United Kingdom ...	24,550	18,546	*6,004	18,278	*268	18,977	699
U. S. A.	57,490	70,154	12,664	64,125	*6,029	76,455	12,330
Other countries ...	18,252	22,797	4,545	30,280	7,483	31,296	1,016
Total Deliveries...	100,292	111,497	11,205	112,683	1,186	126,728	14,045
Visible Supply—							
January 1st	27,656	25,000	*2,656	21,011	*3,989	25,088	4,077
December 31st ...	25,000	21,011	*3,989	25,088	4,077	18,024	*7,064
Decrease in visible..	2,656	3,989		†4,077		7,064	

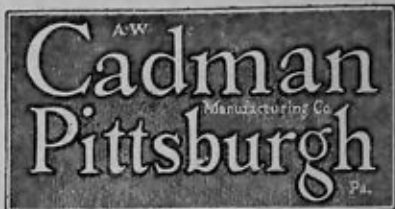
* Decrease. † Increase.

DELIVERIES OF TIN IN THE UNITED STATES.

Monthly deliveries of tin in the United States according to the statistics of the New York Metal Exchange; in tons of 2,240 pounds.

	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. . . .	2,300	4,452	7,177	4,642	1,850	3,910	1,555	4,275	6,625	4,895	7,155
Feb. . . .	3,375	6,388	3,930	3,398	2,450	5,200	1,585	3,215	6,185	8,845	7,205
Mar. . . .	3,200	4,726	4,804	5,151	2,070	5,130	1,683	6,030	6,634	4,560	7,100
Apr. . . .	3,200	4,202	4,380	5,045	36	3,305	1,590	4,995	6,775	7,590	6,655
May	5,600	5,455	5,749	4,056	20	3,550	1,225	4,740	6,035	5,240	4,910
June	3,900	6,398	6,398	6,782	68	6,500	1,590	5,130	5,410	4,310	6,175
July	5,300	4,432	4,806	7,160	132	5,530	1,525	4,590	5,305	3,930	6,475
Aug.	4,500	4,335	3,305	5,953	4,345	3,745	3,320	4,150	5,510	4,805	6,520
Sept. . . .	4,300	4,025	5,402	5,454	4,825	4,860	2,605	5,050	4,540	4,985	6,360
Oct.	4,900	4,556	4,669	4,260	2,875	3,415	2,280	5,603	5,540	5,090	6,070
Nov.	2,975	3,165	2,578	2,379	6,665	3,395	3,250	4,812	6,785	5,790	5,670
Dec.	5,200	4,082	4,683	4,050	6,965	2,580	3,710	4,870	4,810	4,085	6,160
Total . . .	48,750	56,216	57,881	58,339	32,301	51,120	25,918	57,460	70,154	64,125	76,455
U. S. refined tin	4,300	4,849	4,849	9,854	11,596	15,133	8,881	9,180	2,661	177	194
Grand total	48,750	60,516	62,730	68,193	43,897	66,253	34,799	66,640	72,815	64,302	76,649

Small deliveries in early part of 1919 due to Government restriction of imports.



Master Makers of Fine Bearing Metals
Since 1860

**CADMAN ALUMINUM
BABBITT METAL**

ACORN BRAND

**CADMAN BEARITE
BABBITT METAL**

Both pre-eminent for extreme high
speed and heavy duty bearing service

Founders of:

BEARING, WORM AND GEAR,
GUN, PHOSPHORIS AND ACID
BRONZE, BRINZSTOX BUSH-
INGS AND BARS.

A. W. Cadman Mfg. Co.
2815 Smallman Street,
Pittsburgh, Pa.

IMPORTS OF TIN.

Tin imported and entered for consumption in the United States; compiled from records of Bureau of Foreign and Domestic Commerce; in tons 2,240 pounds.

Year.	Quantity.	Value.
1907	36,837	\$32,074,263
1908	36,846	23,923,560
1909	42,555	27,558,546
1910	46,900	33,913,255
1911	47,792	43,346,394
1912	51,800	50,372,478
1913	46,554	46,927,213
1914	42,433	32,881,619
1915	51,623	38,736,909
1916	61,640	51,802,232
1917	64,124	63,860,340
1918	63,619	93,144,218
1919	40,044	50,890,019
1920	56,267	73,440,872
1921	24,197	16,645,719
1922	60,193	40,797,986
1923	68,934	61,092,354
1924	65,059	68,953,193
1925	76,646	95,121,111

Tin Ore Imported Into the United States.

Year.	Quantity.	Value.
1916	8,307	\$4,036,821
1917	8,084	4,743,099
1918	16,423	11,444,401
1919	17,139	11,871,948
1920	30,489	18,795,162
1921	13,696	5,672,861
1922	12,325	5,504,434
1923	2,692	2,169,055
1924	155	71,094
1925	191	98,489

Prior to 1916 the imports of tin ore were negligible.

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Highest Possible Quality

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Babbitt Metal

UNIFORM - RELIABLE

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We guarantee our metals to be made 100% of virgin raw materials of the highest grades at all times.

**Standard For A Third
Of A Century**

E. L. Post & Co., Inc.

SOLE MANUFACTURERS

50 CLIFF ST., NEW YORK CITY

IMPORTS OF TIN.

According to statistics issued by the Department of Foreign Commerce.

Ore (gross tons) ..	1920.	1921.	1922.	1923.	1924.	1925.
30,489	13,696	12,325	2,692	155	191	
Imports from: Pigs, Bars, Blocks, or Granulated, in Pounds.						
United Kingdom ..	24,244,498	15,656,399	20,285,636	25,013,715	28,213,393	40,014,444
China	672,399	56,000	986,808	1,313,663	145,803	930,045
Straits Settlements.	77,611,855	34,786,859	94,692,705	105,137,245	101,876,173	109,895,050
Dutch East Indies..	3,374,540	224,172	6,502,868	8,334,868	2,268,418	560,248
Hong Kong	12,707,284	1,983,481	9,541,122	11,822,715	4,699,328	8,307,754
Australia	3,037,070	634,781	1,081,052	997,249	1,321,690	1,636,099
Other countries ...	4,390,743	859,789	1,742,523	1,791,820	7,207,302	10,342,600
Total refined ...	126,038,389	54,201,481	134,832,714	154,411,275	145,732,107	171,686,240
Equivalent in gross tons	56,067	24,197	60,193	68,934	65,059	76,646

HENRY GARDNER, GUITERMAN & CO., INC.

*Importers and Exporters
of*

**TIN
ORES
LEAD
COPPER
SPELTER
RUBBER**

**120 Broadway
NEW YORK
AND
LONDON**

TELEPHONE
Rector 7708

CABLES
Nonfermet, New Yor

CLASSIFICATION OF TIN IMPORTS.

Includes imports of tin at both Atlantic and Pacific ports; compiled by New York Metal Exchange; in tons of 2,240 pounds.

	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Straits	42,071	42,992	32,675	34,243	26,225	37,535	20,319	48,267	50,395	52,865	57,375
Australian..	10	205	1,483	3,345	1,675	1,440	345	428	440	565	400
Banka and Billiton ...	3,253	7,575	9,273	7,590	2,271	3,675	210	3,405	4,018	1,792	605
English	3,430	5,734	6,155	6,647	4,700	3,215	1,426	2,425	7,485	6,655	13,500
Chinese	1,420	1,530	5,177	5,967	165	4,490	2,203	4,913	5,609	2,650	4,370
Sundries ...	188	320	104	35	368	208	255	30	155	790	15

Totals ... 50,372 58,356 54,867 58,027 35,404 50,563 24,758 59,468 68,102 65,317 76,265

The above figures are the basis for the statistics issued by the New York Metal Exchange regarding supplies and deliveries, etc., but in recent years (excepting 1921 and 1924) the actual importations, according to the returns of the Department of Commerce, have been considerably in excess of what the Metal Exchange has reported. The figures of the Department of Commerce are given below:

	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
51,623	61,640	64,124	63,619	40,044	56,067	24,197	60,193	68,934	65,059	76,646	

ARRIVALS OF BOLIVIAN TIN ORE IN U. S. AND EUROPE.

According to the New York Metal Exchange, reduced to fine tin, in tons of 2,240 pounds.

	—United States—			—Europe—		
	1923.	1924.	1925.	1923.	1924.	1925.
Jan. .	695	1	5	1,588	828	3,698
Feb. .	305	7	..	1,060	2,516	1,608
Mar. .	147	6	65	1,289	2,582	2,469
Apr. .	682	21	13	1,858	3,074	2,899
May .	80	6	..	2,491	2,553	2,624
June .	7	5	18	2,802	1,275	3,794
July .	82	11	1	1,762	2,758	3,150
Aug. .	0	8	1	2,247	3,214	2,547
Sept. .	116	..	33	2,022	1,341	3,026
Oct. ..	547	33	14	1,628	3,411	2,079
Nov. .	0	35	14	2,336	2,350	1,580
Dec. .	0	44	30	1,717	823	4,657
Totals	2,661	177	194	22,800	26,725	34,131

Annual Arrivals.

	U. S.	Europe.	Total.
1916	4,300	15,116	19,416
1917	4,849	19,209	24,058
1918	9,854	17,329	27,183
1919	11,596	14,228	25,824
1920	15,133	14,479	29,612
1921	8,881	7,811	16,692
1922	9,180	16,697	25,877
1923	2,661	22,800	25,461
1924	177	26,725	26,902
1925	194	34,131	34,325

TIN SMELTING IN UNITED STATES.

Production of metallic tin, chiefly from Bolivian ore, by the tin smelters in the United States; in tons of 2,240 pounds.

1916	2,019	1921	10,305
1917	5,415	1922	8,132
1918	9,182	1923	6,666
1919	10,925	1924	434
1920	15,761	1925	negligible

WORLD'S VISIBLE SUPPLY OF TIN.

Total visible supply of tin at the close of each month as compiled by the New York Metal Exchange.

	1915.	1916.	1917.	1918.	1919.	1920.	1921.	†1922.	1923.	1924.	1925.
Jan.	13,901	17,041	18,169	16,049	6,388*	21,056	18,994	27,978	25,765	24,372	22,949
Feb.	14,548	16,511	19,627	17,034	5,213*	21,586	17,074	25,829	25,157	21,835	23,591
Mar.	15,467	18,782	20,307	15,887	6,410*	18,305	16,073	23,158	24,622	23,275	19,623
Apr.	15,785	19,739	18,047	17,262	5,173*	19,342	15,670	23,917	22,116	19,023	18,105
May	14,646	19,614	19,404	18,841	5,843*	20,976	18,352	25,143	22,187	19,711	20,897
June	15,927	19,363	18,059	18,486	6,828*	18,851	17,968	24,082	21,297	20,094	19,797
July	16,084	18,404	17,544	13,589*	13,555	18,546	20,316	23,371	20,019	20,161	19,857
Aug.	15,127	18,042	20,353	11,204*	18,149	19,858	19,358	25,242	18,754	21,302	20,000
Sept.	15,191	16,192	19,153	12,602*	21,630	18,996	21,189	22,983	19,864	20,233	17,642
Oct.	13,154	17,415	18,027	8,543*	23,143	19,964	23,349	23,526	20,567	18,971	15,770
Nov.	16,451	21,186	19,183	8,546*	20,462	19,823	22,806	25,961	19,520	20,977	18,199
Dec.	16,216	20,737	17,766	7,787*	21,887	19,410	25,220	25,000	21,011	25,088	18,024
Av.	15,208	18,585	18,803	13,894	12,890	19,726	19,697	24,682	21,740	21,253	19,538

* As reported in Quin's Metal Handbook. † Commencing here the current month's shipments of Banka and Chinese tin are included in the statistics.

MAGNUS

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BRASS AND BRONZE
ENGINE CASTINGS

MAGNUS CO.

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NEW YORK

CHICAGO

TIN DELIVERIES IN UNITED KINGDOM.

Statistics issued by the New York Metal Exchange.

	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	1,466	1,254	1,953	1,497	1,216	1,873
Feb.	1,714	1,321	2,233	1,518	1,229	1,489
Mar.	2,389	1,359	2,713	1,468	1,448	1,627
Apr.	1,578	1,531	2,024	1,410	1,387	1,814
May	1,826	1,000	1,941	1,763	1,805	1,496
June	1,691	1,361	2,409	1,754	1,310	1,692
July	1,939	1,224	2,488	1,006	1,913	1,299
Aug.	1,553	2,004	1,921	1,538	1,393	1,149
Sept.	2,214	1,707	1,721	1,784	1,755	1,477
Oct.	1,670	1,808	1,314	1,439	1,974	1,930
Nov.	1,607	2,330	1,819	1,473	1,464	1,680
Dec.	1,518	1,766	2,014	1,896	1,384	1,451
Tot.	21,165	18,665	24,550	18,546	18,278	18,977

STOCKS OF TIN IN THE U. S.

Stocks of tin in the United States at the end of each month, according to figures issued by the New York Metal Exchange.

	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	3,723	2,546	1,331	3,354	2,812	4,394
Feb.	3,743	3,546	1,406	2,054	3,302	3,949
Mar.	2,848	3,476	3,086	4,067	1,802	5,184
Apr.	2,676	2,441	2,730	3,577	4,322	2,309
May	5,356	2,571	1,921	3,132	4,067	1,404
June	3,586	2,546	2,390	2,137	4,067	2,054
July	1,926	2,521	3,616	2,037	5,059	2,414
Aug.	3,256	1,761	2,806	2,887	3,454	3,644
Sept.	3,731	1,756	1,236	2,362	3,974	2,309
Oct.	3,191	2,041	2,859	3,677	2,419	2,464
Nov.	2,066	1,316	2,690	1,072	2,089	1,904
Dec.	2,856	1,696	3,704	1,652	2,844	2,654
Av.	3,321	2,351	2,481	2,667	3,351	2,890

BENJ. HARRIS & CO.

CHICAGO and CHICAGO HEIGHTS, ILL.

GENERAL OFFICES

21st and Loomis Sts., CHICAGO

METALS

MANUFACTURERS

All Grades of

YELLOW and RED BRASS INGOT

for all requirements

GUARANTEED ANALYSIS

**Ingot Copper
Spelter**

**Lead
Pig Tin**

Consumers of { Scrap Metals of all kinds
Foundry Residue

Branch, Detroit, Mich.

IMPORT AND EXPORT

PRODUCTION OF SECONDARY TIN IN THE UNITED STATES.

This includes the metal recovered by detinning and refining and also the tin recovered in alloys, in tons of 2,000 lbs.

Year.	Secondary pig tin.	Recovered in alloys.	Total Value.
1908	1,124	1,666	\$1,641,476
1909	2,423	3,092	3,281,425
1910	7,217	6,686	9,481,800
1911	7,749	6,957	12,353,040
1912	8,333	7,068	14,301,368
1913	6,415	7,763	12,567,379
1914	4,535	7,912	8,887,158
1915	5,250	8,400	10,554,180
1916	7,600	9,800	15,131,040
1917	6,000	13,400	23,920,200
1918	7,142	16,695	41,381,000
1919	5,977	18,056	29,868,200
1920	7,200	16,300	22,765,700
1921	5,400	11,500	9,668,500
1922	6,570	12,940	12,443,500
1923	7,892	22,318	25,316,000
1924	7,700	23,600	29,371,900

USES OF TIN.

The only complete analysis of the uses of tin in the United States was that compiled by the War Industries Board from returns obtained through the Sub-Committee on Pig Tin, for the calendar year 1917.

	Long tons.	Per cent.
Tin and terne plate	27,600	36.20
Solder	17,000	22.30
Babbitt and other bearing metals	10,800	14.16
Brass and bronze	4,800	6.29
Collapsible tubes	2,100	2.75
Foil	4,000	5.24
White metal	1,750	2.30
Tinning and retinning	1,900	2.50
Chemicals	1,700	2.22
Plated ware, britannia ware, etc. ..	1,000	1.31
Miscellaneous	3,607	4.73
Total	76,257	100.00

Lewis Lazarus & Sons

MEMBERS OF LONDON METAL EXCHANGE

London

Birmingham

Toronto

DIRECT IMPORTERS

of

Straits, Banca and Chinese Tin

NEW YORK

25 BROADWAY

CONSUMPTION OF TIN IN TIN PLATE.

Comparison of the monthly domestic deliveries of tin and the estimated quantity used for manufacture of tin and terne plates during 1925; in gross tons of 2,240 pounds.

1925—	*Deliveries of Tin. Tons.	†Consumed in Tin and Terne Plates. Tons.	Per cent.
January	7,155	2,200	30.8
February	7,205	2,000	27.8
March	7,100	2,300	32.4
April	6,655	2,400	36.1
May	4,910	2,300	46.8
June	6,175	2,566	41.6
July	6,475	2,405	37.1
August	6,520	2,499	38.3
September ..	6,360	2,255	35.4
October	6,070	2,188	36.0
November ...	5,670	2,131	37.6
December ...	6,160	2,292	37.2
Totals	76,455	27,536	36.0

Quarterly.

1st	21,460	6,500	30.3
2nd	17,740	7,266	40.9
3rd	19,355	7,159	36.9
4th	17,900	6,611	36.9

Half-Yearly.

1st	39,200	13,766	35.1
2nd	37,255	13,770	36.9

Annual Totals Compared.

1925	76,455	27,536	36.0
1924	64,125	22,820	35.6
1923	70,154	24,686	35.2
1922	57,490	22,102	38.4
1921	25,918	13,222	51.0
1920	51,120	23,968	46.9
1919	32,301	18,897	58.5

* Reported by N. Y. Metal Exchange. † Estimate of American Bureau of Metal Statistics, based on a competent approximation of the quantity of tin plate manufactured and the average use of tin per ton of plate.

C. L. Constant Company

New York Office

220 Broadway

Metallurgical and Chemical Engineers

**Metallographic & Chemical
examinations of metals and
furnace products.**

**Specialists in tin and all its
alloys, such as solders, tin
foils, collapsible tubes, bab-
bits, etc.**

**Representatives at all eastern
smelters to supervise weighing
and sampling of shipments.**

TYPICAL TIN ANALYSES.

	Tin.	Antimony.	Arsenic.	Lead.	Bismuth.	Copper.	Iron.	Silver.	Sulphur.	Cobalt.
American Electrolytic Tin	99.928	.002	.002	nil	.042	.026	trace	....	....	
Banka	99.950	.007	nil	trace	nil	.018	.045	nil	trace	
Billiton	99.960	.006	nil	nil	nil	.023	nil	nil	nil	
Penang	99.939	trace	.013	trace	nil	.016	.028	nil	.004	
Singapore	99.870	.008	.045	.034	.003	.052	.003	.006	.005	
*Mt. Bischoff	99.795	.015	.063	.037	.005	.035	.042	trace	.008	
*The Co.'s directors issue the following analyses ..	99.847	.015	.015	.042	.001	.017	.063	....	....	.04
	99.90	....	....	.05	.01	.006	.01	.008	.005	
Pymont	99.938	.017	.019	trace	nil	.022	trace	nil	.004	
Irvine Bank	99.580	.062	.034	.221	.025	.136	.002	.018	.004	
Mellaneer, Lamb & Flag ..	99.19	.16	.06	.16	.35	.06	.02	....	....	
Williams Harvey Corp. No. 1	99.860	.015	.040	.004	.005	.047	.003	nil	.006	
Williams Harvey Corp. No. 2	99.560	.166	.037	.162	.007	.050	.005	trace	.013	
Williams Harvey Corp. No. 2a	99.350	.245	.065	.223	.015	.042	.016	trace	.013	
Williams Harvey Corp. No. 3	99.200	.300	.037	.396	.007	.100	.013	.014	.006	
Williams Harvey Corp. No. 4	99.941	.011	.022	trace	.001	.020	trace	trace	.005	
Penpoll No. 1	99.720	.118	.054	.041	.007	.052	.004	.009	.007	
Penpoll No. 2	98.710	.569	.042	.546	.055	.103	.007	.015	.004	
Penpoll No. 3	99.300	.325	.056	.212	.050	.088	.002	.021	.009	
Redruth	99.160	.176	.053	.177	.017	.445	.041	.006	.008	.012
Sutton, T. & Sons	99.550	trace	.022	.342	.015	.045	.010	trace	nil	trace
Chinese No. 1	99.343	.031	.040	.434	.007	.052	.010	trace	.011	.072
Wing, Hong & Co., No. 2 ..	98.662	.039	.035	1.035	.012	.134	.014	trace	.011	.058
Wing, Hong & Co. No. 3 ..	95.280	.381	.050	3.995	.020	.106	.026	.018	.008	.116

Pope Trading Corp.

90 West St., New York

Pig Tin

Copper

Electrolytic - Lake - Casting

Zinc

**Prime Western - Brass Mill
High Grade**

Antimony

Regulus - Crude - Oxide

Aluminum

PIG TIN PRICES IN NEW YORK.

Yearly high, low and average prices of Straits Tin, for prompt delivery in N. Y.

Year.	High.	Low.	Average.
1896 Lowest ...	13.70	12.62½	13.24
1897	14.12½	13.00	13.60
1898	19.00	13.70	15.64
1899	33.12½	19.87½	27.19
1900	35.00	25.20	30.00
1901	33.50	23.12½	26.94
1902	30.62½	22.60	26.95
1903	30.80	24.95	28.19
1904	30.12½	25.75	28.08
1905	36.45	28.65	31.55
1906	50.00	35.65	39.82
1907	44.10	26.00	38.34
1908	32.37½	26.45	29.54
1909	34.12½	27.30	29.76
1910	38.75	31.75	34.27
1911	48.50	37.60	42.68
1912	51.05	42.05	46.43
1913	51.00	36.75	44.32
1914	65.00	28.50	35.70
1915	57.00	32.00	38.66
1916	56.00	37.50	43.48
1917	86.00	42.50	61.65
1918 Highest ...	110.00	70.00	86.80
1919	72.50	52.75	65.54
1920	65.00	32.50	50.36
1921	39.00	25.50	30.00
1922	39.00	28.75	32.58
1923	51.50	37.50	42.71
1924	59.00	40.00	50.20
1925	64.50	50.00	57.90
Average price for 30 years			38.07

TIN

**VERNON METAL AND
PRODUCE CO., Inc.**

25 BEAVER STREET
NEW YORK

SELLING AGENTS
FOR
W. T. SARGANT & SONS
London, England

PIG TIN PRICES IN NEW YORK.

Monthly average prices of Straits Tin in New York.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.*	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	43.24	50.45	37.74	34.30	41.88	44.19	84.00	72.50	62.89	36.11	32.11	39.17	48.73	58.23
Feb.	43.46	48.73	39.93	37.32	42.63	51.37	85.00	72.00	60.00	32.47	30.82	42.03	53.43	57.08
Mar.	42.86	46.88	38.08	48.93	50.42	54.36	81.00	71.75	61.99	28.85	29.17	48.65	55.01	53.72
Apr.	44.02	49.12	36.10	47.98	51.75	55.91	90.00	72.26	62.20	30.41	30.65	45.87	50.02	52.21
May	46.12	49.14	33.30	38.78	49.15	63.29	103.00	71.94	55.07	32.52	30.97	43.16	44.17	54.67
June	47.77	44.93	30.65	40.37	42.18	62.09	97.00	71.20	48.62	29.57	31.54	41.00	42.72	55.92
July	44.75	40.39	31.75	37.50	38.46	62.60	98.00	70.39	49.37	27.69	31.82	38.48	46.25	58.08
Aug.	45.87	41.72	50.59	34.39	38.54	62.68	90.00	63.78	47.69	26.40	32.44	39.39	51.93	58.18
Sept.	49.18	42.47	32.79	33.13	38.70	61.68	80.00	55.81	44.62	26.73	32.41	41.63	49.13	58.27
Oct.	50.11	40.50	30.39	33.08	41.16	61.85	80.00	55.62	40.64	27.74	34.64	41.86	50.56	62.23
Nov.	49.90	39.81	33.50	39.37	44.17	74.42	74.00	54.17	37.02	29.02	36.72	44.11	54.24	63.27
Dec.	49.90	37.64	33.60	38.75	42.66	85.35	71.50	55.06	34.15	32.49	37.68	47.14	56.21	62.93

Av. 46.43 44.32 35.70 38.66 43.48 61.65 86.80 65.54 50.36 30.00 32.58 42.71 50.20 57.90

* Approximate averages based on sales of Straits and other grades of pure tin for prompt delivery, for the most part in small lots; until October 3, when all licenses to import tin except to the U. S. Steel Products Co. were refused, on orders of the War Industries Board, future deliveries were being sold at from 5c to 10c per pound below these prices for prompt deliveries.

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PIG TIN PRICES IN NEW YORK.

Monthly price fluctuations of Straits tin for prompt delivery in New York.

	— 1920. —		— 1921. —		— 1922. —		— 1923. —		— 1924. —		— 1925. —	
	High.	Low.	High.	Low.	High.	Low.	High.	Low.	High.	Low.	High.	Low.
Jan.	*65.00	60.25	39.00	32.75	33.25	30.87½	40.50	38.25	51.00	47.12½	60.50	56.00
Feb.	64.25	57.00	33.50	30.25	32.00	29.25	46.62½	39.87½	55.75	49.37½	57.75	56.30
Mar.	64.00	59.00	30.25	27.50	29.75	28.75	51.50	46.25	58.75	49.00	55.25	52.12½
Apr.	63.50	60.75	32.25	28.75	31.75	29.37½	47.87½	44.12½	54.00	48.00	56.00	50.00
May	61.00	50.25	33.50	31.62½	31.75	30.50	45.62½	41.25	48.62½	40.00	56.25	53.37½
June	51.50	46.50	31.50	29.00	32.62½	30.75	42.50	39.00	44.50	40.87½	57.12½	54.87½
July	51.00	48.25	29.87½	26.00	33.00	31.00	39.75	37.50	49.25	43.25	59.37½	57.25
Aug.	49.62½	45.75	27.75	†25.50	32.85	32.00	40.87½	38.12½	53.25	49.62½	59.37½	56.75
Sept.	45.75	42.75	27.37½	26.00	32.75	32.12½	42.37½	41.00	53.37½	45.62½	59.87½	56.50
Oct.	43.50	37.75	28.62½	26.87½	37.50	32.75	42.75	41.00	53.12½	48.37½	64.12½	60.00
Nov.	40.00	33.12½	30.00	27.87½	38.00	36.00	47.50	41.62½	54.70	53.37½	64.50	62.12½
Dec.	36.25	32.50	33.75	30.37½	39.00	36.00	48.12½	46.25	59.00	54.75	63.75	61.25
Year	65.00	32.50	39.00	25.50	39.00	28.75	51.50	37.50	59.00	40.00	64.50	50.00

* Highest. † Lowest.

Henry Shambroom & Company

Incorporated

Metal Brokers

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WORTH 8430
New York, L. D. 51

Cable Address
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PIG TIN PRICES IN NEW YORK.

Monthly price fluctuations and averages of 99% pure Pig Tin for prompt delivery in New York.

	1922			1923			1924			1925		
	High.	Low.	Av'ge.	High.	Low.	Av'ge.	High.	Low.	Av'ge.	High.	Low.	Av'ge.
Jan.	32.50	30.00	31.49	39.50	37.00	38.05	49.50	46.50	48.10	59.87½	55.50	57.70
Feb.	31.25	28.12½	29.99	45.50	38.87½	40.86	55.25	48.87½	52.85	57.25	55.50	56.50
Mar.	28.87½	28.12½	28.50	49.75	45.00	46.93	58.00	48.37½	54.17	54.50	51.37½	52.97
Apr.	30.75	28.75	29.77	46.12½	43.25	44.67	53.00	47.37½	49.33	55.12½	49.37½	51.51
May	30.75	29.75	30.19	45.00	40.62½	42.33	47.87½	39.50	43.51	55.25	52.50	53.77
June	31.75	30.00	30.79	41.75	38.50	40.48	44.00	40.37½	42.18	55.75	53.87½	54.90
July	32.37½	30.25	31.17	39.12½	37.00	37.95	48.87½	43.00	45.90	58.00	55.50	56.71
Aug.	32.65	31.62½	32.21	40.37½	37.62½	38.86	52.87½	49.12½	51.45	57.87½	55.12½	56.65
Sept.	32.40	31.87½	32.11	41.75	40.37½	41.05	52.87½	45.12½	48.65	58.25	54.87½	56.41
Oct.	36.75	32.37½	34.01	42.00	40.50	41.25	52.62½	47.87½	50.06	62.25	58.37½	60.45
Nov.	37.25	35.00	35.96	47.00	41.25	43.72	54.12½	52.87½	53.59	63.00	61.25	62.11
Dec.	37.62½	34.87½	36.54	47.50	45.62½	46.53	58.37½	54.12½	55.62	62.75	60.50	62.08
Year	37.62½	28.12½	31.89	49.75	37.00	41.90	58.37½	39.50	49.62	63.00	49.37½	56.81

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TIN PRICES IN LONDON.

Yearly price fluctuations of tin in London; in pounds sterling, per gross ton.

Year.	Open.	High.	Low.	Close.	Average.		
1891 .	£91	£94	£89	£90	£91	3s	od
1892 .	91	103	88	91	93	6	8
1893 .	91	95	74	74	85	7	7
1894 .	73½	74	60¾	60¾	68	14	2
1895 .	60½	68¾	58¾	59	63	7	1
1896 .	58¾	67¾	*56	58¾	59	9	11
1897 .	58½	63¾	58½	62¾	61	8	0
1898 .	63	86½	62¾	86½	71	4	1
1899 .	87¼	150¾	86½	111¾	112	8	7
1900 .	115	153	108¼	121¾	133	11	6
1901 .	121½	140	100	106¼	118	12	8
1902 .	105¾	137¼	100¼	120¾	120	14	5
1903 .	120¾	141¼	111¾	132¾	127	6	5
1904 .	133½	136½	116¾	134	126	14	8
1905 .	132¾	166¾	129¾	160¾	143	1	8
1906 .	161½	215	161	193½	180	12	11
1907 .	191¾	200	115	123½	172	12	9
1908 .	121	147	118½	132	133	2	6
1909 .	132¼	154¼	123½	153¼	134	15	6
1910 .	152¾	176¾	143	174¾	155	6	2
1911 .	178½	233	169¾	205	192	7	0
1912 .	201	233	183¾	229½	209	8	5
1913 .	229½	232	166½	169¼	201	13	7
1914†	168	188¼	120	146¼	151	2	9
1915 .	151	194	148	167¾	164	4	0
1916 .	171	205	161½	178½	182	3	5
1917 .	180¾	309¾	180¾	280½	237	13	1
1918 .	269	399	236	236	329	11	2
1919 .	235¼	342¼	204	341¾	257	9	8
1920 .	347½†	419½	195	205½	296	1	7
1921 .	206½	210½	148	170½	165	8	2
1922 .	168½	187¾	139	182¾	159	10	9
1923 .	182¼	240	176	233¾	202	5	0
1924 .	237¾	298¼	200¾	260¾	248	17	4
1925 .	274½	289½	229½	280½	261	1	8

† Highest. * Lowest. ‡ Based partly on private transactions.

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STANDARD TIN PRICES.

Monthly average prices of prompt Standard tin in London.

	1919.			1920.			1921.			1922.			1923.			1924.			1925.		
	£	s	d	£	s	d	£	s	d	£	s	d	£	s	d	£	s	d	£	s	d
Jan. ..	248	9	11	376	12	9	190	13	11	163	3	4	181	18	6	246	17	11	265	13	8
Feb. ..	224	3	4	395	16	6	166	9	1	149	19	6	190	12	0	272	11	2	262	5	4
Mar. ..	236	18	5	369	14	5	156	4	7	143	5	0	219	15	0	277	11	3	245	16	0
Apr. ..	225	6	6	345	13	1	164	0	11	149	18	11	213	4	1	251	0	1	237	2	8
May ..	234	9	5	295	3	7	177	10	11	150	5	0	203	4	5	218	13	0	245	11	8
June ..	238	8	1	250	18	6	167	12	10	152	12	3	191	18	0	219	6	8	252	11	8
July ..	253	5	1	262	1	6	164	13	1	156	4	4	181	5	3	233	9	2	258	10	6
Aug. ..	271	8	0	274	5	10	155	8	4	160	1	0	186	15	10	254	15	4	258	12	8
Sept. ..	280	4	0	270	7	3	156	17	7	160	2	8	198	7	3	243	13	1	259	3	8
Oct. ...	279	4	11	258	8	8	156	10	0	170	12	4	204	1	4	248	13	6	277	17	3
Nov. ..	283	13	7	241	5	7	159	0	2	179	8	9	220	16	5	257	17	0	284	14	1
Dec. ..	314	5	1	212	11	8	169	16	10	178	15	6	235	2	3	262	0	0	285	1	1
Av.	257	9	8	296	1	7	165	8	2	159	10	9	202	5	0	248	17	4	261	1	8

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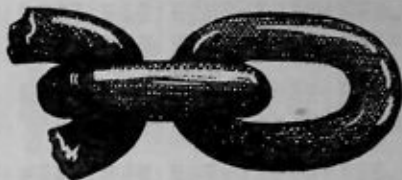
WORLD'S PRODUCTION OF LEAD.

As reported by the American Bureau of Metal Statistics, in short tons of 2,000 lbs.

	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.
United States	535,776	592,079	581,557	556,233	454,797	476,125	402,479	470,000	530,000	590,000
Canada	23,152	20,743	16,283	25,692	21,903	18,187	34,381	45,842	53,899	86,583
Mexico	34,585	22,003	51,366	97,530	86,667	93,925	66,851	133,180	184,242	177,852
North America	593,513	634,825	649,206	679,455	563,367	588,237	503,711	649,022	768,141	854,435
Austria-Hungary*	38,019	40,223	37,909	36,366	1,944	4,379	3,689	4,106	4,690	5,494
Belgium	18,480	17,147	25,065	22,734	4,656	17,681	32,793	48,032	56,328	59,194
France	16,022	26,752	23,401	14,081	12,043	16,600	17,058	15,370	19,194	23,148
Germany	134,113	117,701	95,023	83,231	56,753	65,036	82,676	81,090	56,451	67,467
Italy	24,037	26,847	17,893	20,202	18,216	17,578	13,763	11,960	18,885	24,318
Spain	188,962	162,441	190,546	187,019	138,545	193,118	149,760	131,394	140,559	154,322
United Kingdom.	17,375	14,205	12,596	12,213	11,506	12,275	2,727	5,551	7,512	5,938
Other Europe ...	15,994	13,777	5,153	7,035	15,561	15,558	15,594	17,202	18,453	19,442
Europe	453,002	419,093	407,586	381,881	259,224	342,225	318,060	314,705	322,072	359,323
India (Burma) ...	7,779	12,415	18,885	21,357	20,747	26,679	37,737	43,919	51,239	57,969
Other Asia	6,572	13,852	20,724	14,529	7,462	5,709	12,658	9,522	4,850	7,831
Asia	14,351	26,267	39,609	35,886	28,209	32,388	50,395	53,441	56,089	65,800
Australia	147,562	153,548	164,592	186,729	92,654	7,642	63,071	118,064	137,364	140,645
Africa	7,357	16,627	24,770	28,481	25,551	28,927	33,719	37,419	28,097	24,348
South America ...	4,667	4,267	4,571	5,268	7,234	6,904	5,141	6,547	5,600	12,800
Grand totals	1,220,452	1,254,627	1,290,334	1,317,700	976,239	1,006,323	974,097	1,179,198	1,317,353	1,457,351

* After 1918, figures are for Austria alone.

Estimated production in 1925 of principal producing countries, 1,272,496 tons.



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LEAD PRODUCTION OF THE PRINCIPAL PRODUCING COUNTRIES.

Smelter production of pig lead in 1925 by certain important countries which in 1923 and 1924 furnished about 80% of the world's total; distributed according to source of ore. Compiled by the American Bureau of Metal Statistics; in tons of 2,000 lbs.

	1923.	1924.	1925.
United States†..	453,318	523,353	572,345
Mexico‡	184,242	176,749	205,159
Canada‡	53,899	84,169	124,277
Tot. No. America	691,459	784,271	901,781
Spain and Tunis§	72,805	117,078	128,443
Italy	18,821	24,318	17,866
Australia	137,513	140,624	116,111
Burma	51,239	57,969	53,385
Rhodesia	12,162	7,003	3,560
Transvaal	5,394	4,994	1,350
Total	989,393	1,136,257^a	1,272,496

† Crude lead; includes only production reported by smelters who are members of the Bureau. § Partial. (a) Does not agree with total production for 1924 shown below owing to a change in the statistical method. ‡ Includes lead content of ore exported.

Production of Above Countries by Months.

	1923.	1924.	1925.
January	82,794	83,350	102,143
February	75,762	81,444	96,911
March	87,376	93,027	108,813
April	83,274	93,281	103,014
May	84,157	95,415	104,539
June	83,968	99,598	103,236
July	80,969	95,856	104,304
August	85,236	98,473	101,941
September	76,665	100,131	104,182
October	80,417	100,676	116,027
November	83,998	98,532	111,979
December	84,777	100,597	115,407
Total	989,393	1,140,380	1,272,496
Monthly average	82,449	95,032	106,041



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New York Philadelphia Baltimore Pittsburgh
Cleveland Cincinnati St. Louis Kansas City
And All Principal Cities

domestic production: tons of 2,000 lbs.)

1860	15,600	1903	290,194*
1861	14,100	1904	308,603*
1862	14,200	1905	318,509*
1863	14,800	1906	336,200*
1864	15,300	1907	352,381*
1865	14,700	1908	311,666
1866	16,100	1909	352,839*
1867	15,200	1910	375,402
1868	16,400	1911	391,995*
1869	17,500	1912	392,517*
1870	17,830	1913	411,878*
1871	20,000	1914	512,794*
1872	25,880	1915	507,026
1873	42,540*	1916	552,228*
1874	52,080*	1917	548,450
1875	59,640*	1918	539,905
1876	64,070*	1919	424,433
1877	81,900*	1920	476,849
1878	91,060*	1921	398,222
1879	92,780*	1922	468,746
1880	97,825*	1923	543,841
1881	117,085*	1924	566,407*
1882	132,890*	1925†	651,000*
1883	143,957*		
1884	139,897		Totals.
1885	129,412		
1886	130,629	1825-44	236,500
1887	145,700*	1845-54	224,000
1888	151,919*	1855-64	153,300
1889	156,397*	1865-74	238,230
1890	143,630	1875-84	1,021,104
1891	178,554*	1885-94	1,532,879
1892	173,305	1895-04	2,394,814
1893	163,982	1905-14	3,756,181
1894	159,351		
1895	165,709	1825-14	9,557,008
1896	187,256*	1915-24	5,026,107
1897	207,365*		
1898	210,676*	1825-24	14,583,115
1899	208,466		
1900	270,824*	† Estimated.	
1901	260,266	* Record years.	
1902	276,455*		

* Record years.

PRODUCTION OF LEAD IN THE UNITED STATES.

Production of Primary Lead according to source of ore. Figures represent lead content of ore and not the actual recovery of refined lead; in tons of 2,000 pounds.

	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.
Arizona	5,601	6,933	15,328	7,456	6,195	5,407	5,987	3,313	7,218	8,828	9,372
California	3,698	5,606	3,633	11,471	6,228	2,004	2,360	614	3,018	5,168	2,305
Colorado	41,198	32,352	33,046	29,327	29,395	18,867	17,752	12,104	11,108	23,885	25,491
Idaho	177,827	160,680	170,059	174,045	142,640	89,091	117,191	99,707	91,487	127,797	123,709
Kansas	1,043	1,320	1,737	2,663	5,023	7,951	8,421	10,939	10,900	20,207	12,895
Missouri	194,275	195,634	218,253	218,197	187,743	150,341	171,999	151,028	202,245	169,323	191,501
Montana	4,386	4,853	4,961	5,933	17,586	17,513	13,231	11,565	14,551	18,345	21,226
Nevada	5,996	7,664	11,858	12,334	8,726	5,958	8,650	3,553	4,264	8,044	8,070
Oklahoma	3,916	4,346	10,969	19,646	58,755	49,984	68,494	46,902	67,436	59,602	56,017
Utah	88,976	106,105	111,789	82,081	76,169	65,102	64,006	51,872	63,130	104,678	119,318
Wisconsin	1,819	2,632	3,121	2,930	4,275	3,975	3,841	1,079	1,323	601	1,973
Other States	1,622	4,305	5,989	6,815	8,784	6,745	8,149	1,898	3,725	7,196	8,803
Zinc residues	4,125	4,562	5,478	6,489	5,359	4,887	4,366	713	1,284	362	1,320
Total domestic	534,482	537,012	596,221	579,385	556,878	427,825	494,347	395,287	481,689	554,036	582,000
Foreign—Mexico	2,386	5,437	1,917	7,607	4,758	2,261	2,729	1,912	7,260	18,867	33,328
Africa	2,942	.....	328	1,738	1,519	644	1,171	.....	.....	99	6
South America	1,821	2,829	2,366	1,533	1,101	2,537	2,747	2,235	2,458	1,461	7,663
Other	490	1,315	1,474	4,994	7,916	2,214	1,767	2,973	4,180	3,861	5,388
Base Bullion:											
Mexico	21,689	33,173	11,598	39,508	76,809	49,564	42,421	41,648	47,118	50,193	77,701
Other .....	.....	275	1,223	6,939	8,147	567	1,973	1,599	2,900	.....	.....
Total Foreign	29,328	43,029	18,906	62,319	100,290	57,787	52,808	50,367	63,916	74,481	124,086
Grand Totals	563,810	580,041	615,127	641,704	657,168	485,612	547,155	445,654	545,605	628,517	706,086

Production in 1925 is estimated at 651,000 tons from domestic ore and 112,000 tons from foreign ore.

PRODUCTION OF REFINED LEAD IN THE UNITED STATES.

Year.	(Tons of 2,000 lbs.)	Desilverized.	Soft Lead.	Total Production.	From domestic ores and base bullion.	From foreign ores.	From foreign base bullion.
1905		313,847	85,455	399,302	318,509	80,793	.....
1908		295,552	101,012	396,564	311,666	11,509	73,389
1909		329,751	117,158	446,909	352,839	21,754	72,316
1910		328,954	141,318	470,272	375,402	18,065	76,805
1911		331,032	155,947	486,979	391,995	10,764	84,220
1912		339,646	141,248	480,894	392,517	11,572	76,805
1913		330,593	131,867	462,460	411,878	13,223	37,359
1914		383,903	158,219	542,122	512,794	7,639	21,689
1915		388,594	161,461	550,055	507,026	9,581	33,448
1916		403,619	167,515	571,134	552,228	6,085	12,821
1917		422,266	188,503	610,769	548,450	15,872	46,447
1918		429,732	210,463	640,195	539,905	15,334	84,956
1919		334,476	147,744	482,220	424,433	7,656	50,131
1920		339,803	189,854	529,657	476,849	8,414	44,394
1921		291,076	157,513	448,589	398,222	7,120	43,247
1922		323,412	209,250	532,662	468,746	13,898	50,018
1923		427,573	190,749	618,322	543,841	24,288	50,193
1924		486,878	203,615	690,493	566,407	46,385	77,701
1925		508,000	255,000	763,000	651,000	112,000	

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Perfect Bearing Metal

H. KRAMER & CO.
LOOMIS ST. & 21st PLACE
CHICAGO

**PRODUCTION OF SECONDARY LEAD IN
THE UNITED STATES (Short Tons).**

	Pig Lead.	Lead in Alloys.	Total.
1909	17,822	23,327	41,149
1910	29,384	25,939	55,323
1911	27,359	26,895	54,254
1912	30,266	36,902	67,168
1913	33,104	39,730	72,834
1914	29,337	31,725	61,062
1915	36,400	42,500	78,900
1916	56,700	39,600	96,300
1917	45,100	48,400	93,500
1918	41,146	55,954	97,100
1919	55,684	66,416	122,100
1920	56,350	68,300	124,650
1921	46,370	57,410	103,780
1922	75,480	84,080	159,560
1923	96,430	98,060	194,490
1924	90,400	114,100	204,500

**PRODUCTION OF LEAD PIGMENTS IN
THE UNITED STATES (Short Tons).**

	Red-lead and Orange Mineral.	White Lead.	Litharge.
1907	14,185	111,409	14,769
1908	11,751	116,628	12,254
1909	16,330	131,643	13,391
1910	16,657	134,276	13,659
1911	20,360	132,612	25,190
1912	21,665	146,833	29,111
1913	18,069	142,626	23,093
1914	19,123	159,474	27,345
1915	19,435	156,101	26,118
1916	23,035	128,979	37,739
1917	25,478	115,200	44,102
1918	30,069	102,888	48,874
1919	32,362	139,090	46,739
1920	34,431	145,695	62,329
1921	22,186	170,283	41,909
1922	30,879	194,991	58,261
1923	38,683	162,873	75,107
1924	37,144	187,494	74,724

Pennsylvania Smelting Co.

PITTSBURGH, PA.

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Office
First Nat'l Bank Bldg.

Producers and Sellers of

"PITTSBURGH"

PRIME "Desilverized"

PIG LEAD

Antimonial Lead

*Prompt Shipments from Refinery at
Carnegie, Pa.*

AMERICAN BRANDS OF LEAD.

Brand:	Grade:	Producer:
Balbach	Desilverized & Corroding	Balbach Sm. & Refg. Co., Newark, N. J.
Bunker Hill	Desilverized	Bunker Hill Smelter, Kellogg, Idaho
Bunker "C" Hill	Corroding	Bunker Hill Smelter, Kellogg, Idaho
C. M. F. y A.	Corroding	The Am. Metal Co., Ltd., N. Y. City
Desloge	Prime Soft	Desloge Con. Lead Co., St. Louis, Mo.
Doe Run	Corroding	St. Joseph Lead Co., N. Y. City
Eagle-Picher	Prime Soft	Eagle-Picher Lead Co., Chicago, Ill.
Federal	Prime Soft	Amer. Sm. & Refg. Co., N. Y. City
Granby	Prime Soft	Am. Zinc, Lead & Sm. Co., N. Y. City
I. L. R. Co.	Prime Soft	Intern. Lead Refg. Co., N. Y. City
Kingdon	Prime Soft	Kingdon Min. Smg. & Mfg Co., Montreal, Canada
Omaha & Grant	Pr. Soft, Desilverized & Corroding	Amer. Sm. & Refg. Co., N. Y. City
Perth Amboy	Pr. Soft, Desilverized & Corroding	Amer. Sm. & Refg. Co., N. Y. City
Pittsburgh	Desilverized	Penns. Sm. Co., Pittsburgh, Pa.
Porter	Prime Soft	Amer. Sm. & Refg. Co., N. Y. City
Selby	Pr. Soft, Desilverized & Corroding	Amer. Sm. & Refg. Co., N. Y. City
St. Joe Chemical	Prime Soft	St. Joseph Lead Co., N. Y. City
Tadanac	Prime Soft	Cons. Min. & Sm. Co. Trail, B. C., Can.
U. S. S. Co.	Prime Soft & Desilverized	U. S. Sm., Refg. & Min. Co., N. Y. City

IMPORTS OF LEAD.

Imports of lead to the United States by classes and by sources, according to statistics published by the Bureau of Foreign and Domestic Commerce; in tons of 2,000 pounds.

	Lead in Ore.	Lead Content Bullion.	Base Scrap.	Total Lead Content.	Imported From				Other countries.
					Canada.	Mexico.	South America.	Europe.	
1910	47,375	57,742	3,485	108,602	104	101,645	3,299	1,357	2,197
1911	17,844	69,476	2,632	89,952	135	86,317	2,389	285	826
1912	9,788	73,499	272	83,559	159	79,728	1,604	414	1,654
1913	9,942	47,164	41	57,147	169	47,847	4,383	405	4,343
1914	11,825	16,365	148	28,338	192	23,141	1,209	2,449	1,347
1915	9,094	41,993	409	51,496	1,152	47,124	2,710	109	401
1916	17,543	12,131	5,655	35,329	6,303	24,197	3,118	288	1,423
1917	20,646	51,832	5,793	78,271	5,869	62,891	2,278	4,473	2,760
1918	18,535	74,832	5,240	98,607	14,113	81,130	981	31	2,352
1919	9,788	56,012	5,107	70,907	5,196	62,771	2,752	45	143
1920	14,744	48,052	35,719	98,515	4,099	65,908	3,543	19,383	5,582
1921	7,116	35,867	31,301	74,284	4,064	53,203	1,190	15,112	715
1922	12,237	62,037	3,551	77,825	4,332	70,608	1,902	727	256
1923	33,441	80,748	21,099	135,288	5,700	121,176	2,650	5,502	260
1924	47,660	77,751	12,247	137,658	5,511	121,581	7,910	2,429	227
1925	44,481	70,627	7,021	122,129	*5,017	*103,475	*5,103	....	*1,513

*Lead in ore and base bullion (lead content) only. Similar statistics for refined lead and scrap, not available.

EXPORTS OF LEAD.

Exports of lead produced from foreign and domestic ores; according to destination; in tons of 2,000 pounds.

	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Argentina .....	.....	.....	.....	.....	306	1,235	1,227	1,944	1,816
Brazil .....	.....	.....	.....	.....	842	2,742	2,199	2,545	2,175
Canada	34,292	15,820	2,075	1,722	209	487	127	†	†
United Kingdom..	26,791	66,597	23,213	2,691	12,926	9,655	21,433	38,635	45,437
Germany .....	.....	.....	.....	.....	4,644	7,541	6,111	8,888	26,094
Netherlands	308	.....	862	2,016	1,519	1,682	4,460	2,928	5,214
France	1,786	873	3,328	1,031	840	13,415	10,671	11,013	9,398
Italy	1,941	1,574	.....	.....	.....	.....	.....	5,826	2,574
Russia	15,156	414	5	Other Europe	.....	.....	3,062	2,790	6,330
Japan	1,217	8,700	11,844	3,976	4,172	302	112	2,072	1,344
Other countries .	9,849	7,269	10,159	8,657	878	1,119	833	1,125	2,471
Totals	91,340	101,247	51,486	20,093	26,336	38,178	50,235	77,766	102,853
Produced from:									
Domestic ore	53,688	41,831	10,510	2,730	1,624	5,823	1,999	5,332	4,956
Foreign ore	37,652	59,416	40,976	17,363	24,712	32,355	48,236	72,434	97,897

† Included with other countries.

HOYT METAL COMPANY

NEW YORK

ST. LOUIS

Largest Manufacturers of Mixed
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Babbitt Metal, Type Metal,
Casting Metal, Solder, Anti-
monial Sheet and Pig Lead,
Special Alloys Built to Order
and Scientifically Mixed or
Rolled.

PLANTS:

PERTH AMBOY, N. J. GRANITE CITY, ILL.

TORONTO, CANADA LONDON, ENGLAND

WORLD'S CONSUMPTION OF LEAD.

According to American Bureau of Metal Statistics except where otherwise noted; in metric tons.

	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.
United States*	401,694	439,757	484,609	509,434	424,585	504,907	385,502	491,503	546,799	566,658
Canada	41,731	49,896	49,896	45,360	15,200	25,500	17,800	21,600	25,400	20,800
Other America †	10,200	20,100	30,500	35,200	10,100	11,200	7,000	16,000	20,000	20,000
North America	453,625	509,753	565,005	589,994	449,885	541,607	410,302	529,103	592,199	607,458
Great Britain	218,800	148,100	151,300	217,300	202,500	150,900	128,000	152,800	188,300	220,500
France	65,400	83,100	79,400	64,100	66,000	63,900	38,000	81,900	101,100	106,400
Germany†	130,000	100,000	100,000	110,000	60,000	67,500	101,400	143,000	59,500	84,500
Russia†	58,700	67,800	28,700	500	.....	.....	2,000	4,000	5,000	6,000
Belgium	.....	.....	.....	.....	17,400	35,200	20,900	25,000	34,500	34,400
Italy	39,100	38,700	42,500	57,400	34,000	13,900	7,700	8,600	21,000	34,800
Czechoslovakia and Yugoslavia	.....	.....	.....	.....	10,000	9,700	7,500	13,100	16,000	17,700
Austria-Hungary†	55,200	58,300	48,600	25,000	1,700	2,300	5,800	8,800	5,300	6,000
Spain†	10,000	10,000	12,000	15,000	15,000	15,000	10,000	15,000	15,000	17,000
Holland†	7,000	3,000	2,000	1,000	6,500	6,500	6,000	6,000	6,000	6,000
Switzerland†	3,600	5,300	2,300	5,100	4,100	6,100	4,100	5,900	7,500	8,000
Other Europe	7,500	8,600	10,500	10,800	4,400	5,500	1,000	10,400	10,700	12,400
Europe	595,300	522,900	477,300	506,200	421,600	376,500	332,400	474,500	469,900	553,700
Asia	27,100	38,200	39,800	62,200	42,000	28,700	46,600	56,000	57,700	56,000
Africa†	7,400	6,200	10,500	3,400	2,000	3,000	4,000	8,000	10,000	10,000
Australia†	8,000	9,000	16,000	18,000	11,000	10,500	9,800	10,000	15,000	15,000
World's consumption	1,091,425	1,086,053	1,108,605	1,179,794	926,485	960,307	803,102	1,077,603	1,144,799	1,242,158

* Computed on basis of U. S. Geological Survey figures, excluding secondary lead. † Metallgesellschaft, except for 1924. ‡ Not available. § After 1918, Austria alone.

CONSUMPTION OF LEAD IN THE UNITED STATES.

The following figures represent the total supply of lead available each year for domestic consumption; issued by U. S. Geological Survey, in tons of 2,000 pounds.

1896.....	213,901	1911.....	385,319
1897.....	219,248	1912.....	388,148
1898.....	227,452	1913.....	408,146
1899.....	226,315	1914.....	452,512
1900.....	269,302	1915.....	419,560
1901.....	271,934	1916.....	460,703
1902.....	332,484	1917.....	515,535
1903.....	300,167	1918.....	542,975
1904.....	319,543	1919.....	434,143
1905.....	347,015	1920.....	538,020
1906.....	376,300	1921.....	444,872
1907.....	360,715	1922.....	492,705
1908.....	318,555	1923.....	573,543
1909.....	368,664	1924.....	602,947
1910.....	379,196	1925 (Est.)..	665,000

Considerable quantities of lead which were shipped abroad in 1917 and 1918 for use of American Expeditionary Forces are included in the apparent consumption.

STOCKS OF BONDED LEAD.

Stocks of lead in bond in the United States; in tons of 2,000 pounds:

1901 Jan. 1..	21,190	1914 Jan. 1..	5,310
1902 " ..	16,622	1915 " ..	7,660
1903 " ..	23,939	1916 " ..	12,169
1904 " ..	10,694	1917 " ..	12,369
1905 " ..	11,481	1918 " ..	26,612
1906 " ..	8,148	1919 " ..	17,471
1907 " ..	5,756	1920 " ..	45,710
1908 " ..	12,944	1921 " ..	52,542
1909 " ..	18,565	1922 " ..	19,533
1910 " ..	17,405	1923 " ..	8,773
1911 " ..	35,972	1924 " ..	80,786
1912 " ..	4,481	1925 " ..	104,286
1913 " ..	10,492	1926 " ..	106,967

USES OF LEAD IN THE UNITED STATES.

Estimated ultimate uses of lead in the United States including primary and secondary lead and antimonial lead as compiled by the American Bureau of Metal Statistics.

— In tons of 2,000 pounds —	1919.	1920.	1921.	1922.	1923.	1924.
White lead	111,000	116,500	136,000	156,000	130,000	150,000
Red lead and lethane	32,000	45,000	23,500	30,000	46,000	34,000
Storage batteries	100,000	108,000	87,000	130,000	143,000	170,000
Cable covering	53,000	79,000	67,000	93,000	131,000	138,000
Building	68,000	71,000	48,000	71,000	75,000	83,100
Automobiles	4,000	4,750	4,600	7,200	10,400	10,700
Locomotives and railway cars ..	7,300	4,800	2,800	3,350	8,100	5,600
Shipbuilding	2,250	1,550	850	100	100	200
Ammunition	32,000	33,600	26,500	36,500	39,000	26,500
Terne plate	3,400	3,100	3,000	4,700	4,600	3,800
Foil	21,000	21,000	23,800	26,800	33,300	35,000
Bearing metal	27,000	26,000	21,000	26,000	28,000	32,000
Solder	15,000	15,000	12,000	20,000	30,000	30,000
Type metal	7,500	7,500	7,500	9,500	12,000	13,000
Calking	24,000	24,000	20,000	20,000	25,000	26,500
Castings	15,000	15,000	12,000	15,000	15,000	15,000
Other uses	26,000	29,000	25,000	32,500	36,500	38,000
Totals	548,450	604,800	520,550	681,650	767,000	811,400

METALLURGICAL & CHEMICAL CORPORATION

(Subsidiary of National Lead Co.)

General Offices: Matawan,
NEW JERSEY

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Cable Address, "Metalchem"

Works: Matawan, N. J.

Producers and Sellers of

"Metalchem" Brand

PIG LEAD

99.90% plus guaranteed

ANTIMONIAL LEAD and Alloys

LEAD SPECIFICATIONS.

The specifications (serial designation: B29—23) for primary or virgin lead issued by the **American Society for Testing Materials** in 1919 and revised in 1920, 1922 and 1923, provide that the lead be made from ore or similar raw materials by processes of reduction and refining, and not produced from reworked material. Under these specifications virgin pig lead is considered in three grades as follows:

Corroding Lead (Grade I.)

	Chemical composition.
Silver	not over 0.0015 per cent.
Copper	" " 0.0015 " "
Copper and silver together	" " 0.0025 " "
Arsenic	" " 0.0015 " "
Antimony and tin together	" " 0.0095 " "
Zinc	" " 0.0015 " "
Iron	" " 0.002 " "
Bismuth	" " 0.05 " "
Lead (by difference)	99.9330 " "

Chemical Lead (Grade II.)

	Chemical Composition (*)
Copper	0.04—0.08 per cent.
Bismuth	less than 0.005 " "
Silver 1½ to 4½ oz. per ton	0.005—0.015 " "

Common Lead (Grade III.)

(a) Desilverized Lead:	Chemical composition
Silver	not over 0.002 per cent.
Copper	" " 0.0025 " "
Arsenic, antimony and tin together	" " 0.015 " "
Bismuth	" " 0.25 " "
Iron	" " 0.002 " "
Zinc	" " 0.002 " "
Lead (by difference)	99.7265 " "

(b) Soft Missouri lead:†	
Silver	not over 0.002 per cent.
Copper	" " 0.04 " "
Arsenic, antimony and tin together	" " 0.015 " "
Bismuth	" " 0.005 " "
Iron	" " 0.005 " "
Zinc	" " 0.002 " "
Lead (by difference)	99.931 " "

* This composition represents present requirements in the United States.

† Soft Missouri Lead is a trade name used to cover soft undesilverized lead.

U. S. SMELTING, REFINING & MINING CO.

ELECTROLYTIC LEAD
U·S·S·C·O

COPPER
D·R·W

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WHITE ARSENIC - WEED KILLER

Brands of Quality

LEAD PRICES IN NEW YORK.

Yearly high, low and average prices of Pig Lead in New York.

Year.	High.	Low.	Average.*
1896 Lowest ..	3.25	2.67½	2.98
1897	4.40	3.00	3.58
1898	4.12½	3.55	3.78
1899	4.77½	3.92½	4.47
1900	4.75	3.75	4.41
1901	4.37½	4.00	4.36
1902	4.15	4.00	4.10
1903	4.70	4.10	4.26
1904	4.60	4.10	4.32
1905	6.25	4.45	4.70
1906	6.35	5.35	5.66
1907	6.35	3.50	5.35
1908	4.60	3.65	4.23
1909	4.75	3.95	4.30
1910	4.75	4.37½	4.49
1911	4.60	4.25	4.46
1912	5.15	4.00	4.48
1913	4.85	4.00	4.40
1914	4.15	3.50	3.87
1915	7.62½	3.70	4.67
1916	8.25	5.50	6.83
1917 Highest .	12.25	5.50	8.71
1918	8.05	6.25	7.46
1919	8.00	4.80	5.81
1920	9.50	4.45	8.08
1921	5.37½	4.00	4.55
1922	7.45	4.70	5.71
1923	8.75	6.00	7.25
1924	10.30	7.00	8.08
1925	10.80	7.65	9.02

Average price for 30 years..... 5.28

* Since 1901 average prices are based on quotations of American Smelting & Refining Company, but the high and low prices include the extreme fluctuations in the outside market.

GIRARD

Experienced buyers know that "They always get what they pay for."

Buying the best always pays—that's why we are adding to our already large list of customers.

SPECIFY GIRARD

BRAND

**Standard Composition
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SPECIAL FORMULA INGOTS

ALUMINUM INGOTS

PIG LEAD — BABBITT

SOLDER — SPELTER

GIRARD SMELTING & REFINING COMPANY

Richmond and Tioga Streets
PHILADELPHIA, PENNSYLVANIA

GIRARD PIG LEAD

99.75 PURE

LEAD PRICE CHANGES.

American Smelting & Refining Company's
quotations for 50 ton lots f.o.b. New York.

		1920.	1921.	1925—	
High	..	9.25	5.00	Jan.	2 ... 9.75
Low	...	4.75	4.00	"	5 ... 10.00
		1922.	1923.	"	8 ... 10.25
High	..	7.25	8.25	"	12 ... 10.50
Low	...	4.80	6.00	"	21 ... 10.00
		1924—		"	30 ... 9.75
Jan.	2	....	7.75	Feb.	13 ... 9.50
"	10	....	7.90	"	17 ... 9.25
"	18	....	8.00	Mar.	3 ... 9.00
Feb.	1	....	8.15	"	26 ... 8.75
"	7	....	8.25	"	30 ... 8.50
"	14	....	8.40	April	7 ... 8.25
"	15	....	8.50	"	16 ... 8.00
"	21	....	8.70	"	18 ... 7.85
"	27	....	8.90	"	21 ... 7.75
"	28	....	9.00	May	14 ... 7.90
April	3	....	8.75	"	19 ... 8.00
"	9	....	8.50	"	22 ... 8.15
"	11	....	8.25	"	25 ... 8.25
"	24	....	8.00	"	28 ... 8.40
May	5	....	7.75	June	18 ... 8.30
"	7	....	7.50	"	24 ... 8.20
"	15	....	7.25	"	29 ... 8.10
"	22	....	7.00	"	30 ... 8.00
July	23	....	7.25	July	20 ... 8.10
"	29	....	7.50	"	21 ... 8.20
Aug.	11	....	7.75	"	30 ... 8.30
"	15	....	8.00	Aug.	3 ... 8.50
Oct.	20	....	8.25	"	5 ... 8.75
"	23	....	8.40	"	8 ... 8.90
"	25	....	8.50	"	11 ... 9.00
"	27	....	8.65	"	13 ... 9.15
Dec.	8	....	8.75	"	14 ... 9.25
"	10	....	8.90	"	19 ... 9.40
"	11	....	9.00	"	26 ... 9.50
"	15	....	9.25	Nov.	2 ... 9.75
"	18	....	9.35	"	30 ... 9.50
"	23	....	9.50	Dec.	8 ... 9.25
"	26	....	9.60		

American Smelting & Refining Co.

120 Broadway, New York

Producers of

GOLD

SILVER

COPPER

LEAD

ZINC

ARSENIC

ZINC DUST

ZINC SULPHATE

CADMIUM

CADMIUM OXIDE

CADMIUM SULPHIDE

BISMUTH

SELENIUM

TELLURIUM

TEST LEAD C. P. LITHARGE

NICKEL SALTS

THALLIUM

LEAD PRICES IN NEW YORK.

Monthly average prices of Pig Lead, New York delivery, based on American Smelting & Refining Company's quotations, 50 ton lots.

	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	4.50	4.44	4.35	4.11	3.74	5.94	7.56	6.66	5.80	8.32	4.75	4.70	7.60	7.91	10.14
Feb.	4.50	4.04	4.35	4.06	3.82	6.23	8.34	6.94	5.11	8.75	4.54	4.70	8.02	8.46	9.49
Mar.	4.50	4.07	4.35	3.97	4.03	6.83	8.98	7.25	5.25	9.21	4.02	4.71	8.25	9.00	8.94
Apr.	4.50	4.20	4.40	3.82	4.20	7.50	9.00	7.09	5.07	9.25	4.29	5.05	8.13	8.37	8.07
May	4.50	4.20	4.36	3.90	4.23	7.50	9.71	7.00	5.11	8.65	4.91	5.37	7.34	7.37	7.95
June	4.50	4.39	4.35	3.90	5.87	7.02	10.81	7.51	5.35	8.24	4.58	5.73	7.15	7.00	8.32
July	4.50	4.73	4.37	3.90	5.74	6.54	11.00	8.04	5.64	8.19	4.40	5.75	6.20	7.11	8.09
Aug.	4.50	4.56	4.63	3.90	4.75	6.25	10.94	8.05	6.00	8.83	4.40	5.81	6.55	7.81	9.13
Sept.	4.50	5.05	4.75	3.86	4.62	6.75	8.94	8.05	6.14	8.52	4.60	6.07	6.81	8.00	9.50
Oct.	4.30	5.10	4.45	3.54	4.59	7.00	6.84	8.05	6.46	7.47	4.70	6.48	6.83	8.20	9.50
Nov.	4.32	4.69	4.34	3.68	5.15	7.00	6.14	8.05	6.75	6.61	4.70	7.01	6.81	8.65	9.74
Dec.	4.45	4.36	4.06	3.80	5.34	7.44	6.25	6.82	7.07	4.94	4.70	7.16	7.29	9.13	9.31
Av.	4.46	4.48	4.40	3.87	4.67	6.83	8.71	7.46	5.81	8.08	4.55	5.71	7.25	8.08	9.02

Metals Refining Company

Hammond, Indiana

***SMELTERS - REFINERS
MANUFACTURERS***

***Pig Lead
Red Lead
Litharge
Battery Plate Metal
Antimonial Lead
Type Metals
Babbitt Metals***

Warehouses:

**Boston
Cleveland
Louisville
New York**

**Chicago
Detroit
Minneapolis
Omaha
Saint Louis**

**Cincinnati
Kansas City
Milwaukee
Pittsburgh**

ANNUAL PRODUCTION 35,000 TONS

LEAD PRICES IN ST. LOUIS.

Price fluctuations of Soft Missouri Lead in the open market, St. Louis, by months and years.

	1924			1925		
	High.	Low.	Av.	High.	Low.	Av.
Jan.	8.30	7.90	8.14	10.75	9.50	10.16
Feb.	10.00	8.30	9.08	9.45	8.80	9.16
Mar.	10.00	8.50	9.26	8.82½	8.10	8.59
April ...	8.75	7.60	7.94	8.05	7.30	7.67
May	7.62½	6.62½	7.02	8.55	7.40	7.90
June	7.00	6.70	6.85	8.60	7.65	8.11
July	7.60	6.65	6.90	8.75	7.65	8.10
Aug.	8.20	7.35	7.80	10.10	8.65	9.72
Sept. ...	8.00	7.80	7.90	9.75	9.25	9.37
Oct.	8.95	7.80	8.14	9.50	9.35	9.44
Nov.	8.95	8.70	8.84	10.00	9.25	9.62
Dec.	10.05	8.70	9.41	9.35	9.05	9.19

Extreme Prices for twenty years:

	High.	Low.	Average.
1906	6.10	5.25	5.71
1907	6.12½	3.45	5.25
1908	4.52½	3.55	4.10
1909	4.80	3.75	4.19
1910	4.70	4.15	4.33
1911	4.50	4.10	4.31
1912	5.02½	3.90	4.38
1913	4.72½	3.85	4.26
1914 Lowest ...	4.10	3.35	3.74
1915	7.50	3.50	4.57
1916	8.25	5.45	6.80
1917 Highest ..	12.00	5.42½	8.92
1918	7.75	5.70	7.25
1919	7.50	4.60	5.55
1920	9.15	4.45	7.93
1921	5.05	3.90	4.39
1922	7.12½	4.35	5.52
1923	8.50	5.67½	7.35
1924	10.05	6.62½	8.10
1925	10.75	7.30	8.92
Average price for 20 years.....			5.75

ST. JOE CHEMICAL LEAD DOE RUN SUPER-REFINED LEAD
BUNKER HILL DESILVERIZED and CORRODING LEAD

SOLD BY

ST. JOSEPH LEAD CO.

Executive, Sales and Exploration Departments
250 PARK AVE., NEW YORK

Telephone, Vanderbilt 6130



LEAD PRICES IN ST. LOUIS.

Monthly average prices of Soft Missouri Lead in St. Louis.

	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	4.36	4.34	4.20	3.99	3.57	5.80	7.58	6.70	5.36	8.32	4.78	4.40	7.64	8.14	10.16
Feb.	4.29	3.99	4.20	3.95	3.72	6.17	9.04	6.94	4.83	8.62	4.29	4.40	8.16	9.08	9.16
Mar.	4.25	4.06	4.21	3.83	3.98	7.46	9.53	7.10	5.01	8.93	4.02	4.43	8.33	9.26	8.59
Apr.	4.29	4.14	4.25	3.70	4.11	7.67	9.26	6.76	4.78	8.71	4.30	4.97	8.03	7.94	7.67
May	4.24	4.09	4.22	3.81	4.16	7.28	10.52	6.70	4.80	8.52	4.81	5.30	7.12	7.02	7.90
June	4.30	4.31	4.21	3.80	5.76	6.77	11.71	7.53	5.06	8.36	4.34	5.58	6.88	6.85	8.11
July	4.42	4.60	4.25	3.75	5.52	6.20	10.65	7.75	5.42	8.58	4.28	5.45	6.13	6.90	8.10
Aug.	4.43	4.46	4.56	3.73	4.59	6.19	10.59	7.75	5.60	8.89	4.23	5.55	6.51	7.80	9.72
Sept.	4.37	4.94	4.62	3.67	4.53	6.71	8.82	7.75	5.81	8.23	4.41	5.90	6.74	7.90	9.37
Oct.	4.18	4.91	4.31	3.39	4.51	6.87	6.78	7.75	6.22	7.08	4.47	6.36	6.59	8.14	9.44
Nov.	4.23	4.50	4.18	3.58	5.08	6.96	6.28	7.75	6.68	6.16	4.37	6.89	6.60	8.84	9.62
Dec.	4.36	4.19	3.94	3.67	5.26	7.53	6.30	6.48	6.96	4.75	4.39	6.99	7.47	9.41	9.19
Av.	4.31	4.38	4.26	3.74	4.57	6.80	8.92	7.25	5.55	7.93	4.39	5.52	7.35	8.10	8.92

JOPLIN LEAD ORE PRICES.

Average monthly prices of lead ore in the Joplin district.

	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan.	46.35	75.68	90.78	81.83	60.04	89.06	49.22	60.34	96.47	110.69	134.32
Feb.	46.51	84.04	107.09	83.63	51.95	101.63	41.35	60.00	109.48	120.11	121.13
Mar.	48.47	91.10	117.42	85.15	61.56	108.69	38.97	61.17	118.87	119.85	112.00
Apr.	50.31	100.57	109.58	82.54	58.11	108.93	46.20	68.27	109.96	99.61	93.90
May	50.62	96.56	116.71	81.33	57.15	102.34	57.26	70.90	90.54	82.10	97.07
June	63.70	78.26	125.96	90.20	59.32	93.74	43.43	77.60	84.92	80.00	108.21
July	60.00	72.46	114.61	98.76	64.39	94.09	43.44	76.60	66.01	81.48	101.00
Aug.	47.50	65.51	105.07	100.28	64.15	108.03	50.00	79.27	78.76	102.73	125.70
Sept.	50.00	69.26	89.19	100.00	71.00	94.46	56.62	82.74	85.31	109.20	116.63
Oct.	50.00	78.23	78.29	100.00	79.66	60.99	58.54	87.07	81.70	110.08	118.90
Nov.	63.75	86.30	70.37	99.75	86.19	58.93	53.49	92.01	80.32	120.00	127.31
Dec.	72.25	91.69	74.86	74.20	88.04	47.34	56.33	92.97	99.38	124.23	118.80
Av.	54.12	82.47	99.99	89.81	66.79	89.02	51.59	76.57	94.53	108.04	116.14

The annual averages represent the average prices realized on the total shipments for each year.

LEAD PRICES IN LONDON.

Monthly average prices of foreign lead in London.

	1923.	1924.	1925.
Jan. .	£26 18s 6d	£31 6s 5d	£40 10s 2d
Feb. .	28 6 5	34 2 6	37 7 3
Mar. .	28 15 1	36 13 1	36 2 2
Apr. .	27 0 2	32 1 1	32 9 9
May .	25 6 7	28 15 0	32 3 8
June .	25 2 1	30 18 7	33 4 7
July .	23 10 10	31 16 7	34 7 1
Aug. .	24 4 0	32 7 7	37 8 4
Sept.	25 10 1	32 13 11	37 12 11
Oct. .	27 2 1	34 19 10	37 19 1
Nov. .	29 3 10	38 4 8	36 10 10
Dec. .	30 7 0	40 7 4	34 11 11

Av. . . £26 16s 4d £33 13s 11d £35 17s 3d

Extreme prices and annual averages for twenty years:

	High.	Low.	Average.
1906..	£20 5s 0d	£15 7s 6d	£18 4s 1d
1907..	22 5 0	13 0 0	19 12 5
1908..	15 2 6	12 7 6	13 14 9
1909..	14 2 6	†12 6 3	13 1 8
1910..	13 17 6	12 6 3	12 19 0
1911..	15 18 9	12 15 0	13 9 3
1912..	23 15 0	15 10 0	17 15 10
1913..	21 10 0	15 7 6	18 6 2
1914..	24 0 0	17 10 0	18 13 9
1915..	30 5 0	18 6 3	22 17 8
1916..	36 10 0	27 15 0	30 19 6
1917..	30 10 0	29 10 0	30 0 0
1918..	40 10 0	28 10 0	30 2 8
1919..	46 5 0	22 0 0	28 3 11
1920..	*53 7 6	21 10 0	38 4 7
1921..	26 0 0	16 10 0	22 14 6
1922..	27 0 0	19 10 0	23 14 10
1923..	31 15 0	23 15 0	26 16 4
1924..	44 0 0	27 15 0	33 13 11
1925..	43 10 0	30 15 0	35 17 3

* Highest. † Lowest.

HORSE HEAD
AND
BERTHA BRANDS
OF
HIGH GRADE
SLAB ZINC



The New Jersey Zinc Co.
ESTABLISHED 1848



Products Distributed by

The New Jersey Zinc Sales Co.
160 Front Street, New York City

Chicago - Pittsburgh - Cleveland - San Francisco

The World's Standard for Zinc Products

WORLD'S PRODUCTION OF ZINC.

According to the American Bureau of Metal Statistics; in short tons of 2,000 lbs.

	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.
Australia ...	5,318	4,032	10,023	9,128	10,825	1,883	26,339	46,091	52,205
Austria-Hung.	12,783	13,885	13,224	.....	.....	.....	.....	.....	.....
Belgium	25,269	11,340	10,188	21,891	92,880	72,917	123,777	162,082	179,662
Canada	2,973	9,982	12,571	12,323	18,508	26,494	27,782	30,025	27,443
France	22,324	25,268	20,218	11,902	22,140	26,640	43,779	54,381	61,287
Great Britain.	57,997	57,214	42,990	42,137	27,550	6,515	20,529	35,033	43,098
Germany	196,226	205,579	204,146	102,955	107,435	99,207	121,705	127,892	130,190
Italy	284	404	1,309	1,413	1,297	427	2,901	4,060	6,585
Japan	42,070	60,299	43,990	21,843	17,356	11,435	13,637	15,432	15,432
Jugo-Slavia & Czechoslovakia	.....	.....	.....	4,419	6,612	6,614	9,921	11,023	11,023
Netherlands..	13,335	4,473	750	.....	2,238	7,060	14,327	18,126	20,051
Norway	2,019	1,931	2,044	3,731	2,024	2,205	2,039	2,205	2,205
Poland	8,234	9,184	5,392	4,868	5,909	7,745	10,031	13,546	17,050
Spain	9,395	11,194	17,527	17,083	10,634	7,427	6,910	12,039	13,558
Sweden	11,020	8,816	4,753	2,648	6,458	3,858	1,757	1,420	3,858
United States	679,833	682,225	525,349	471,684	479,669	215,614	373,678	531,202	535,846

Totals 1,089,980 1,105,826 914,474 728,925 811,535 496,041 799,112 1,064,557 1,119,493
 Estimated world's production in 1925: 1,240,500 tons.

AMERICAN ZINC, LEAD & SMELTING COMPANY

AMERICAN
ILLINOIS

GRANBY
SPECIAL

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SELECT

SLAB ZINC

Also



SALES OFFICE:
331 MADISON AVENUE
NEW YORK CITY

ZINC PRODUCTION OF THE PRINCIPAL PRODUCING COUNTRIES.

Production of slab zinc by certain important countries which in 1923 and 1924 furnished about 87% of the world's total. Issued by the American Bureau of Metal Statistics; in tons of 2,000 pounds.

	1923.	1924.	1925.
United States ..	531,202	535,846	590,928
Canada	30,344	27,443	38,481
Mexico			1,406
Belgium	163,222	179,662	189,473
Germany.....	123,644	45,635	64,629
Polish Silesia..		84,555	107,226
Australia	45,078	52,205	51,280
Great Britain...	35,033	43,098	42,726
Total.....	*928,523	968,444	1,086,149
Other countries estimated		139,500	160,400

World's total 1,107,900 1,246,500

* This figure plus 2,400 tons estimated for Sweden equals total for 1923, shown below.

Production of Above Countries by Months.

	1922.	1923.	1924.	1925.
Jan.	47,824	76,805	87,248	92,568
Feb.	45,166	75,730	77,441	85,937
Mar.	52,718	83,447	82,947	94,876
Apr.	50,872	81,417	78,766	89,496
May	53,462	80,768	81,890	91,264
June	53,153	75,576	77,046	85,261
July	57,465	75,887	75,907	87,745
Aug.	58,470	74,145	73,526	88,131
Sept.	61,035	71,757	75,591	88,177
Oct.	72,116	75,423	79,716	93,535
Nov.	69,759	79,077	78,993	93,847
Dec.	74,441	80,891	85,822	98,234
Total .	696,481	930,923	968,444	1,086,149
M'thly Av.	58,040	77,577	80,704	90,512

United Metals Selling Company

25 BROADWAY, NEW YORK

Sales Agents for Anaconda Electrolytic Zinc



ZINC 99.90% PURE¹

(Produced at the refineries of the Anaconda
Copper Mining Co, at Great Falls, Montana.)

Pig Lead--

Desilvered, Common

International [I. L. R. Co.]

Electrolytic Zinc

Highest Grade and Purity

Anaconda Electric

**Selenium, Arsenic, Nickel Salts
Tellurium, Copper Sulphate**

U. S. ZINC PRODUCTION.

Primary slab zinc produced in the United States, from domestic ore through 1904; from both domestic and foreign ores for subsequent years; in tons of 2,000 pounds.

1880	23,239*	1911	286,526*
1881	30,000*	1912	338,806*
1882	33,765*	1913	346,676*
1883	36,872*	1914	353,049*
1884	38,544*	1915	489,519*
1885	40,688*	1916	667,456*
1886	42,641*	1917	669,573*
1887	50,340*	1918	517,927
1888	55,903*	1919	465,743
1889	58,860*	1920	463,377
1890	63,683*	1921	200,500
1891	80,873*	1922	354,277
1892	87,260*	1923	510,434
1893	78,832	1924	517,339
1894	75,328	1925	†569,000
1895	89,686*		
1896	81,499		
1897	99,980*		
1898	115,399*		
1899	129,051*		
1900	123,886		
1901	140,822*		
1902	156,927*		
1903	159,219*		
1904	186,702*		
1905	203,849*		
1906	224,770*		
1907	249,860*		
1908	210,424		
1909	255,760*		
1910	269,184*		

			Totals.
		1873-84	269,096
		1885-94	634,408
		1895-04	1,283,171
		1905-14	2,738,904
		1873-14	4,925,579
		1915-24	4,856,145
		1873-24	9,781,724

	† Estimated.
	* Record years.

**S
L
A
B** **ZINC**

**P
I
G** **LEAD**

**STANDARD BRANDS
PURE-VIRGIN METALS**

**LET US QUOTE YOU
ON YOUR REQUIREMENTS**

JOHN WAHL COMMISSION CO

**HENRY GREVE
PRESIDENT**

SAINT LOUIS, Mo.

PRODUCTION OF SLAB ZINC IN THE UNITED STATES.

Primary slab zinc produced from domestic and foreign ores, according to the States in which smelted; in tons of 2,000 lbs.

	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	*1925.
Domestic...	564,338	584,597	492,405	452,272	450,045	198,232	353,274	508,335	515,831	551,000
Foreign ...	104,005	84,976	25,522	13,471	13,332	2,268	1,003	2,099	1,508	18,000
Arkansas...	7,503	25,660	26,753	31,437	31,481	15,278	13,627	29,870	28,447	(a)
Illinois.....	181,433	172,480	141,844	118,458	109,056	48,865	76,266	93,239	93,370	109,000
Kansas.....	141,286	76,048	29,149	43,942	41,044	16,573	24,167	32,006	28,640	26,000
Oklahoma..	168,206	204,394	139,066	121,988	110,500	41,244	74,537	119,744	118,487	135,000
Pennsylvania	76,545	86,995	77,342	67,521	74,234	36,378	57,319	82,003	83,016	102,000
Other States	82,254	78,778	64,857	55,459	45,641	30,603	52,992	82,484	87,886	119,000
Electrolytic.	11,116	25,209	38,916	27,056	51,626	11,559	55,369	71,088	77,493	78,000

Totals ... 668,343 669,573 517,927 465,743 463,377 200,500 354,277 510,434 517,339 569,000
 (a) Included with "Other States." * Approximate production.

Redistilled secondary zinc production in the United States; in tons of 2,000 pounds.

	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	*1925.
20,545	29,764	28,776	16,835	9,918	19,748	21,371	17,573	32,988	39,434	35,486	39,000	

M. M. Pearlman & Co.

Jefferson Bldg., Philadelphia, Pa.

New York Office, 801-7 Broadway

Sellers of

Zinc - Lead - Tin

(Spelter)

Antimony - Copper

Aluminum

Buyers of

Zinc Dross-Zinc Skimmings

Salammoniac Skimmings

Also Lead Dross

PRODUCTION OF ZINC ACCORDING TO GRADES.

Issued by the U. S. Geological Survey, in tons of 2,000 lbs.

	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	*1925.
Grade A ..	97,707	129,344	45,377	80,713	24,084	67,459	89,739	108,238	} 157,000
Grade B ..	69,189	68,987	39,173	33,893	4,996	36,402	58,513	48,874	
Grade C ..	148,749	98,584	140,917	59,811	47,814	49,980	90,459	100,290	
Grade D ..	370,763	230,930	260,024	310,331	141,179	233,424	311,157	295,423	
Totals ..	686,408	527,845	485,491	484,748	218,073	387,265	549,868	552,825	608,000
Grade A, high grade; Grade B, intermediate; Grade C, selected and brass special;									
Grade D, prime western.									

PRODUCTION OF ELECTROLYTIC AND REDISTILLED SECONDARY ZINC.

Electrolytic zinc production included in above figures:		Redistilled secondary zinc production included in above figures:	
1917..	25,209 tons	1917..	16,835 tons
1918..	38,916 "	1918..	"
1919..	27,056 "	1919..	"
1920..	51,626 "	1920..	21,371 "
1921..	11,559 "	* Approximate.	
		1921..	17,573 tons
		1922..	32,988 "
		1923..	39,434 "
		1924..	35,486 "
		1925..	39,000*



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PRODUCTION OF ZINC IN U. S.—By Months.

Reported by the American Zinc Institute except for the years 1917 and 1918 when the statistics were collected by the U. S. Geological Survey; in tons of 2,000 pounds. Figures for 1919 not available.

	1917.	1918.	1920.	1921.	1922.	1923.	1924.	1925.
January	62,785	39,896	43,441	25,916	23,706	46,317	49,709	50,386
February	55,593	43,624	43,921	17,769	22,513	42,443	43,933	46,811
March	65,929	53,818	48,256	15,741	26,532	48,731	47,775	51,485
April	63,031	42,504	45,399	16,550	25,506	46,866	44,949	48,851
May	64,680	40,036	45,415	18,026	27,419	47,347	47,666	49,738
June	59,399	47,516	41,009	19,443	28,547	42,840	43,442	45,921
July	57,677	40,033	40,194	15,495	31,917	43,065	42,913	47,583
August	54,960	49,610	38,226	14,621	31,423	41,625	41,775	47,849
September	50,599	40,433	36,819	14,367	33,134	39,105	40,852	47,384
October	53,493	39,687	35,335	14,538	39,940	42,098	42,488	50,497
November	50,113	48,609	33,318	21,135	40,200	44,280	42,633	50,629
December	48,149	42,079	28,439	22,013	42,841	46,485	47,711	53,794
Totals	686,408	527,845	479,772	215,614	373,678	531,202	535,846	590,928
Monthly av'ge	57,201	43,987	39,981	17,968	31,140	44,267	44,654	49,244

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DELIVERIES OF ZINC IN THE UNITED STATES—By Months.

Reported by the American Zinc Institute; in tons of 2,000 pounds.

	1920.	1921.	1922.	1923.	1924.	1925.
January	40,615	21,021	24,636	47,995	45,590	52,598
February	47,139	15,702	24,067	48,153	47,438	49,104
March	54,330	12,771	30,394	49,574	52,893	50,992
April	43,908	17,959	34,040	47,911	44,245	47,710
May	48,590	13,886	38,738	43,304	38,080	46,865
June	43,490	13,275	39,380	38,686	36,122	44,225
July	38,009	12,976	32,875	38,998	39,892	49,718
August	37,687	20,480	38,412	36,394	43,558	51,588
September	23,497	19,781	35,957	42,683	46,054	52,620
October	27,005	24,849	40,703	39,204	49,756	54,818
November	20,158	24,910	38,746	39,163	54,173	51,182
December	21,771	22,454	44,086	40,811	53,415	51,421
Totals	446,199	220,064	422,034	512,876	551,216	602,841
Monthly average	37,183	18,339	35,169	42,740	45,935	50,237

STOCKS OF ZINC IN THE UNITED STATES— By Months.

Stocks of Zinc in the United States at the end of each month as reported by the American Zinc Institute; in tons of 2,000 pounds.

	1920.	1921.	1922.	1923.	1924.	1925.
January	40,311	75,953	65,678	16,574	40,697	18,996
February	37,093	78,020	64,124	10,864	37,192	16,703
March	31,019	80,990	60,262	10,021	32,074	17,196
April	32,510	79,581	51,728	8,976	32,778	18,337
May	29,335	83,721	40,409	13,019	42,364	21,210
June	26,854	89,889	29,576	17,173	49,684	22,906
July	29,039	92,408	28,618	21,240	52,705	20,771
August	29,578	86,549	21,629	26,471	50,922	17,032
September	42,900	81,135	18,806	22,893	45,720	11,796
October	51,230	70,824	18,043	25,787	38,452	7,475
November	64,390	67,049	19,497	30,904	26,912	6,922
December	71,058	66,608	18,252	36,578	21,208	9,295
Monthly average	40,443	79,394	36,385	20,042	39,226	15,720

**PRODUCTION OF ZINC PIGMENTS
IN U. S.—Short Tons.**

	Zinc Oxide.	Leaded Zinc Oxide.	Lithopone.
1900-1909 ..	614,728	61,283	37,714
1910	58,481	6,823	12,655
1911	63,827	6,765	16,866
1912	84,002	11,410	24,220
1913	75,700	9,421	29,685
1914	82,809	11,317	32,819
1915	109,261	18,758	46,494
1916	100,339	23,003	51,291
1917	107,586	23,450	63,713
1918	100,286	26,714	62,403
1919	117,639	27,591	78,365
1920	99,444	30,460	89,373
1921	74,329	16,103	55,016
1922	128,465	9,613	83,360
1923	126,987	23,504	98,199
1924	131,470	26,729	109,469

**JOPLIN ZINC AND LEAD ORE
SHIPMENTS.**

From the Joplin district; in tons of 2,000 lbs.

Zinc Ores.		Lead Ores.	
Tons.	Value.	Tons.	Value.
1925..	814,317 \$43,510,847	135,304	\$15,714,490
1924..	731,113 31,103,456	104,323	11,271,937
1923..	697,531 28,568,578	89,423	8,453,655
1922..	520,991 18,242,428	94,386	7,227,488
1921..	320,035 7,611,208	68,688	3,442,820
1920..	561,333 25,761,385	93,562	8,588,620
1919..	447,837 19,349,721	73,070	4,922,961
1918..	389,988 19,887,063	68,738	6,168,062
1917..	452,983 29,696,612	63,931	6,377,838
1916..	379,469 31,466,332	53,326	4,488,986
1915..	314,942 23,968,916	46,035	2,514,313
1914..	264,549 10,032,481	42,816	1,978,451
1913..	287,164 11,965,027	47,661	2,492,976
1912..	299,408 15,539,520	45,306	2,540,249
1911..	268,517 10,493,926	45,803	2,685,303
1910..	296,671 11,919,583	44,416	2,335,432
1909..	301,206 12,192,770	44,186	2,420,878
1908..	259,598 8,917,073	39,119	2,152,896

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ZINC SMELTING CAPACITY IN THE UNITED STATES.

The total number of available retorts at the zinc smelting plants in the United States at the end of 1925 amounted to 146,708 and were distributed among the following producers:

	Total retorts.
American Metal Co.	19,648
American Zinc, Lead & Smelting Co.	10,484
American Zinc Products Co.	2,560
Athletic Mining & Smelting Co.	3,328
Eagle-Picher Lead Co.	8,800
Falcon Zinc Co.	3,200
Grasselli Chemical Co.	18,360
Hegeler Zinc Co.	5,400
Illinois Zinc Co.	5,560
Matthiessen & Hegeler Zinc Co.	6,132
Missouri Zinc Co.	384
National Zinc Co.	8,096
New Jersey Zinc Co.	19,660
Quinton Spelter Co.	2,688
U. S. Steel Corporation	14,160
U. S. Zinc Co.	10,960
United Zinc Smelting Corp.	2,368
Victory Metal Co.	3,000
Weir Smelting Co.	1,920

Total 146,708

Note—The above does not include the capacity of the electrolytic plant of the Anaconda Copper Mining Company which is approximately 120,000 tons of slab zinc per annum.

The following table shows the number of retorts in operation at the close of each year as compared with the total number of retorts:

	Operating.	Total.
1925	95,029	146,708
1924	81,274	140,567
1923	86,384	136,966
1922	80,863	143,768
1921	41,425	155,187
1920	58,629	140,584
1919	100,830	158,294
1918	123,033	202,426
1917	136,639	225,949
1916	204,693	219,418



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NORFOLK SMELTING CO. INC.

Works at West Norfolk, Virginia

IMPORTS OF ZINC ORE AND ZINC.

Short Tons.

Total imports of zinc ore and zinc in blocks, pigs, scrap, sheets and zinc dust, entered for consumption.

	Zinc Ore		Zinc		
	Total ore.	Zinc content.	Blocks pigs, scrap.	Sheets.	Zinc dust.
1915 .	158,852	57,669	792	95	707
1916 .	385,964	148,147	663	2	522
1917 .	211,595	72,474	277	73	233
1918 .	70,902	24,809	35	..	16
1919 .	48,649	17,009	69	1	52
1920 .	65,773	22,487	14	4	17
1921 .	7,539	2,705	6,604	6,688	42
1922 .	*	1,929	86	416	79
1923 .	*	3,223	21	..	4
1924 .	*	4,649	25	..	59
1925 .	*	13,537	24	..	†146

* Gross weight not recorded. † Includes other manufactures.

EXPORTS OF DOMESTIC ZINC ORE AND ZINC.

Exports of domestic zinc ore, dust and dross and of pigs, slabs, plates, sheets, strips, etc., of domestic manufacture, in tons of 2,000 pounds.

	Zinc ore.	Pigs, slabs, etc.	Sheets, strips.	Zinc dust.	Zinc dross.
1914 ..	11,110	*64,802	.....	....	2,536
1915 ..	832	†106,220	‡12,383	....	4,167
1916 ..	78	150,621	12,512	....	48
1917 ..	1,320	137,272	16,524	....	13,302
1918 ..	62	66,368	13,875	....	15,816
1919 ..	nil	109,746	19,761	....	5,123
1920 ..	nil	74,046	11,852	....	2,445
1921 ..	nil	1,753	1,816	....	510
1922 ..	1,695	26,815	3,217	1,998	8,412
1923 ..	‡2,804	42,131	3,732	3,679	§14,745
1924 ..	a	b72,583	3,658	2,270	a10,845
1925 ..	a	b76,351	4,196	2,242	a15,999

* Includes sheets. † Includes sheets to July 1st. ‡ For six months beginning July 1st. § Includes zinc ore as shown in first column. ¶ Canadian smelters report this tonnage imported from U. S. A. (a) Exports of zinc ore are included with zinc dross. (b) Foreign included with domestic.

EXPORTS OF ZINC (Spelter) AND ZINC SHEETS.

As reported by the Bureau of Foreign and Domestic Commerce; in tons of 2,000 pounds.
Metal produced from Rolled in Sheets,
domestic and foreign ore. strips, etc.

Destination:	1923.	1924.	1925.	1923.	1924.	1925.	Totals
Belgium	1,008	2,647	3,402	0	0	0	1,008 2,647 3,402
Canada	326	547	695	908	1,007	1,535	1,234 1,554 2,230
United Kingdom	37,587	44,541	35,548	709	858	1,244	38,296 45,399 36,792
France	6,181	10,835	10,292	136	59	85	6,317 10,894 10,377
Japan	1	1,223	420	131	186	92	132 1,409 512
Other countries.	4,108	12,790	25,994	1,848	1,548	1,240	5,956 14,338 27,234
Totals	49,211	72,583	76,351	3,732	3,658	4,196	52,943 76,241 80,547

EXPORTS OF ZINC AND ZINC SHEETS COMBINED, 1915-1925.

Destination:	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Canada	11,723	10,924	13,453	8,048	3,746	1,893	1,050	1,796	1,234	1,554	2,230
United Kingdom	59,648	79,376	96,294	35,243	59,489	69,387	178	9,956	38,296	45,399	26,792
France	31,319	71,275	63,497	35,513	34,492	25,618	280	9,141	6,317	10,894	10,377
Italy	9,720	18,014	20,466	7,667	12,090	1,420	23	517	1,396	5,589	9,053
Russia	12,091	11,910	10,681	.....	.....	Belgium	110	1,890	1,008	2,647	3,402
Japan	657	882	1,360	5,287	20,043	3,482	2,035	6,539	132	186	512
Other countries	6,220	13,984	12,725	8,556	11,904	12,230	1,149	3,664	4,560	9,972	18,181
Totals	131,378	206,365	218,476	100,313	141,764	114,030	4,825	33,503	52,943	76,241	80,547

SECONDARY ZINC PRODUCED IN U. S.

Year.	Short Tons.		In alloys, but not brass.	In remelted brass.
	Redistilled.	Remelted.		
1916.....	28,776	21,037	2,600	61,700
1917.....	16,835	14,565	4,800	*80,000
1918.....	9,918	17,190	11,082	82,400
1919.....	19,748	20,162	6,062	62,400
1920.....	21,371	21,479	7,650	*65,000
1921.....	17,573	16,260	5,840	38,627
1922.....	32,988	36,326	10,250	60,280
1923.....	39,434	25,776	8,630	*65,000
1924.....	35,486	23,400	10,500	*60,000

* Estimated.

ZINC CONSUMED IN GALVANIZING SHEETS AND TUBES.

Monthly deliveries of zinc in the United States and estimates of the amount of zinc used for galvanizing sheets and tubes, which is the largest branch of the galvanizing industry. Compiled by the American Bureau of Metal Statistics; in tons of 2,000 pounds.

	§Deliveries for domestic consumption.	Consumed for galvanizing*		
		Sheets.	Tubes.	Totals.
1923..	463,141	121,300	49,000	170,300
1924..	479,300	122,900	50,300	173,200
1925—				
Jan. .	39,624	14,400	4,600	19,000
Feb. .	40,418	10,900	4,400	15,300
Mar. .	44,628	10,500	3,800	14,300
Apr. .	42,408	8,800	3,200	12,000
May .	40,865	7,900	3,200	11,100
June .	39,043	7,900	3,700	11,600
July .	40,557	8,200	3,600	11,800
Aug. .	46,662	8,400	4,400	12,800
Sept. .	48,206	8,800	4,400	13,200
Oct. ..	47,974	9,500	4,900	14,400
Nov. .	47,460	11,300	4,800	16,100
Dec. .	49,043	12,600	4,400	17,000
Total †	526,514	119,200	49,400	168,600

* Estimated from the production of galvanized sheets and tubes together with factors for the percentage of zinc coating thereon that have been determined by a study of this subject. † Revised annual total. § Determined by deducting exports reported by Dept. of Commerce from production figures of American Zinc Institute.

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USES OF ZINC IN THE UNITED STATES.

Estimated uses of slab zinc in the United States (except 1918 for which there is no data) according to the American Bureau of Metal Statistics.

	1917.	1919.	1920.	1921.	1922.	1923.	1924.
Galvanizing (total)	190,000	163,000	192,000	138,100	205,400	235,200	240,000
Sheets	†	81,500	99,800	72,500	110,800	121,300	122,900
Tubes	†	27,900	34,000	28,200	44,100	49,000	50,300
Wire	†	33,900	35,900	19,500	25,000	32,700	29,000
Wire cloth	†	4,300	4,800	3,800	6,100	6,100	7,100
Shapes*	†	15,400	17,500	14,100	19,400	26,100	\$30,700
Brass making	170,000	155,000	144,000	75,000	145,000	175,000	178,000
Sheet zinc	57,000	55,000	53,200	30,400	53,500	55,800	61,000
Other purposes†	28,000	29,000	35,000	19,000	36,000	49,000	56,000

Totals 445,000 402,000 424,200 262,500 439,900 515,000 535,000

*Includes pole-line hardware, hollow ware, chains and all articles not elsewhere mentioned. The estimates for the use of zinc under this head, and also for wire cloth, are probably incomplete. † Not separately reported. ‡ Includes zinc used for the manufacture of French oxide, lithopone, atomized zinc dust, die castings, slush castings, and for the desilverization of lead. § Includes figures from consumers not previously accounted for.

Estimate of zinc used for galvanizing sheets and tubes during 1925: sheets, 119,200 tons; tubes, 49,400 tons; total for sheets and tubes 168,600 tons.

THE PLATT BROS., & Co.
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Accurately Rolled



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CONSUMPTION OF ZINC IN THE UNITED STATES.

Based on the annual reports of the U. S.
Geological Survey, in tons of 2,000 lbs.:

Year.	Tons.	Year.	Tons.
1898.....	108,199	1912.....	340,341
1899.....	124,585	1913.....	295,370
1900.....	99,399	1914.....	299,983
1901.....	141,697	1915.....	364,855
1902.....	152,682	1916.....	459,317
1903.....	154,381	1917.....	413,643
1904.....	180,911	1918.....	423,792
1905.....	200,439	1919.....	323,964
1906.....	220,781	1920.....	323,043
1907.....	226,969	1921.....	203,600
1908.....	214,167	1922.....	373,090
1909.....	270,730	1923.....	446,514
1910.....	245,884	1924.....	448,257
1911.....	280,059	1925.....	504,000

STOCKS OF ZINC IN THE UNITED STATES.

Stocks of zinc (spelter) at smelters and
in bonded warehouses.

Year.	Jan. 1. Tons.	Year.	Jan. 1. Tons.	June 30. Tons.
1899 ..	3,695	1913 ..	4,522	21,856
1900 ..	2,798	1914 ..	40,659	64,039
1901 ..	5,813	1915 ..	20,095	5,884
1902 ..	1,905	1916 ..	14,253	23,879
1903 ..	3,361	1917 ..	17,598	33,147
1904 ..	6,880	1918 ..	53,721	44,502
1905 ..	2,863	1919 ..	41,241	59,651
1906 ..	3,463	1920 ..	36,793	29,892
1907 ..	3,824	1921 ..	71,037	94,747
1908 ..	26,366	1922 ..	70,452	....
1909 ..	19,622	1923 ..	16,890	....
1910 ..	11,206	1924 ..	27,888	....
1911 ..	23,232	1925 ..	20,754	....
1912 ..	9,081	1926 ..	*9,295	....

*American Zinc Institute.

THE AMERICAN ZINC PRODUCTS CO.

GREENCASTLE, INDIANA

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SLAB ZINC [Spelter]
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ROLLED ZINC.

Production, imports, exports and consumption of rolled zinc in the United States.

Zinc sheets:		1919.	1920.	1921.	1922.	1923.	1924.
Quantity, lbs. . . .	56,514,868	56,812,989	28,580,904	50,203,438	49,179,501	59,033,193	9.60c
Average value . . .	10.66c	11.70c	10.00c	8.10c	9.20c	9.60c	
Boiler plates and special sheets:							
Quantity, lbs. . . .	5,083,137	3,950,489	2,545,755	2,229,877	2,294,230	1,982,526	8.10c
Average value . . .	10.26c	10.20c	7.60c	7.00c	8.10c	8.10c	
Zinc strips:							
Quantity, lbs. . . .	46,995,742	45,704,052	29,673,527	54,585,375	60,192,743	61,049,000	9.40c
Average value . . .	10.43c	11.50c	9.80c	8.00c	9.10c	9.40c	
Total rolled zinc. . .	108,593,747	106,467,530	60,800,186	107,018,690	111,666,474	122,064,719	9.50c
Average value . . .	10.54c	11.50c	9.80c	8.00c	9.10c	9.50c	
Zinc sheets, imported:							
Quantity, lbs. . . .	.....	7,572	13,375,245	831,141	584	712	12.40c
Av'ge foreign value . . . . .	.....	8.10c	3.70c	7.10c	7.00c	7.00c	
Rolled zinc, exported:							
Quantity, lbs. . . .	39,524,516	23,704,197	3,631,647	6,433,089	7,463,362	7,315,144	10.73c
Average value . . .	13.16c	12.00c	11.70c	8.93c	10.24c	10.73c	
Dom. consump., lbs. . .	69,069,231	82,770,905	70,543,784	101,416,742	104,203,696	114,750,287	11.04c.
Exports of rolled zinc in 1925: 8,392,707 pounds, average value							

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ESTABLISHED 1848



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The New Jersey Zinc Sales Co.

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The World's Standard for Zinc Products

ZINC GAUGE COMPARED WITH OTHER GAUGES

Zinc gauge can be maintained only approximately.

English & V M Gauges		Rolled Zinc Gauge		American or Brown & Sharpe	
Gauge No.	Thick- ness Inch.	No.	Sq. ft. in lbs.	Thick- ness Inch.	Approximate Thickness Inch.
1	.0004	3	.22	.006	34 .0063
2	.006	..	...	.....	.. .....
3	.007	..	...	.....	33 .0070
4	.008	4	.30	.008	32 .0079
		..	...	.....	31 .0089
5	.010	5	.37	.010	30 .0100
		..	...	.....	29 .0112
6	.011	6	.45	.012	28 .0126
7	.013	7	.52	.014	27 .0141
8	.015	8	.60	.016	26 .0159
		..	...	.....	25 .0179
9	.018	9	.67	.018	24 .0201
10	.020	10	.75	.020	23 .0225
11	.023	11	.90	.024	22 .0253
12	.026	12	1.05	.028	21 .0284
13	.029	13	1.20	.032	20 .0319
14	.032	14	1.35	.036	19 .0353
15	.038	15	1.50	.040	18 .0403
16	.043	16	1.68	.045	17 .0452
17	.048	17	1.87	.050	16 .0508
18	.053	18	2.06	.055	15 .0570
19	.058	19	2.25	.060	14 .0640
20	.063	20	2.62	.070	13 .0719
21	.070	21	3.00	.080	12 .0808
22	.077	22	3.37	.090	11 .0907
23	.084	23	3.75	.100	10 .1018
24	.091	24	4.70	.125	9 .1144
		..	....	.....	8 .1284
		..	....	.....	7 .1442
		..	....	.....	6 .1620
		..	....	.....	5 .1819
		..	....	.....	4 .2043
		..	....	.....	3 .2294
25	.098	25	9.40	.250	2 .2576
		..	....	.....	1 .2893
		..	....	.....	0 .3249
26	.105	26	14.00	.375	000 .4096
		27	18.75	.500	
		28	27.50	1.000	

ESTABLISHED 1856

DICKERSON, VAN DUSEN & CO.

METALS

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Nickel Tin and Nickel Zinc

Black Sheets

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ZINC ORE PRODUCTION.

Recoverable zinc content of zinc ore shipped from United States mines, according to U. S. Geological Survey; in tons of 2,000 pounds:

Annual Shipments.

1909.....	306,161	1915.....	587,595
1910.....	327,618	1916.....	703,317
1911.....	333,842	1917.....	713,359
1912.....	385,344	1918.....	636,091
1913.....	413,330	1919.....	548,846
1914.....	415,662	1920.....	587,524

Shipments by States.

	1921.	1922.	1923.	1924.
Arizona ...	.....	105	260	.....
Arkansas .	15	134	148	4
California..	529	1,506	.....	1,530
Colorado ..	1,180	11,629	27,076	28,364
Idaho	17	2,055	13,976	7,670
Illinois ...	2,426	3,124	1,266	2,512
Kansas ...	36,994	56,225	100,969	105,392
Kentucky .	220	142	270	492
Missouri ..	10,845	16,171	18,265	12,920
Montana ..	11,638	59,535	70,730	64,238
Nevada ...	35	1,309	7,083	5,501
New Jersey	56,447	73,657	75,227	84,370
New Mexico	114	2,248	8,248	10,380
New York..	1,572	4,816	8,463	4,664
Oklahoma..	121,372	209,682	242,421	269,137
Tennessee.	9,692	15,568	15,900	14,376
Utah	35	2,560	5,665	9,281
Virginia ..	.....	.....	.....	2,664
Washington	225	614	1,512	455
Wisconsin..	3,390	10,952	13,211	14,027
Totals ..	256,746	472,032	610,690	637,977



ROLLED ZINC

SHEETS, STRIPS and COILS

**Special Mixtures to meet
all requirements**

BOILER PLATE

HAZEL ATLAS GLASS CO.

WHEELING, W. VA.

**Eastern Sales Office, 53 Park Place
NEW YORK**

Telephone: Barclay 7284

AMERICAN BRANDS OF ZINC.

Brand:	Description:	Producer:
A. M. C. O. Select	H. G. & Intermediate.	The American Metal Co., Ltd., N. Y. City
American	H. G. & P. W.	Amer. Zinc, Lead & Smg. Co., N. Y. City
Anaconda Electric	High Grade	United Metals Selling Co., N. Y. City
Arkanzinco	B. S. & P. W.	Falcon Zinc Co., Van Buren, Ark.
Bartlesville Best Select.	Brass Special	The American Metal Co., Ltd., N. Y. City
Bertha	High Grade	The N. J. Zinc Co., N. Y. City
Brass Special B. Z. Co.	Brass Special	The American Metal Co., Ltd., N. Y. City
C. P. Metallic	High Grade	The N. J. Zinc Co., N. Y. City
Eagle-Picher	B. S. & P. W.	Eagle-Picher Lead Co., Chicago, Ill.
Falcon	B. S. & P. W.	Falcon Zinc Co., Van Buren, Ark.
Ft. Smith	B. S. & P. W.	Ft. Smith Spelter Co., Ft. Smith, Ark.
Franklin	Brass Special	The N. J. Zinc Co., N. Y. City
Girard	Intermediate	The American Metal Co., Ltd., N. Y. City
Granby	B. S., Sel'ct'd & P. W.	Amer. Zinc, Lead & Smg. Co., N. Y. City
Grasselli	H. G., B. S., & P. W.	The Grasselli Chem. Co., Cleveland, O.
Hazel	Intermediate	Clarksburg Zinc Co., Clarksburg, W. Va.
Hegeler Brass Special	Brass Special	Hegeler Zinc Co., Danville, Ill.

(Continued on page 415.)

AN Institution with
eighteen Banking
Offices in Greater New
York; qualified by ex-
perience to act in every
fiduciary capacity, and
offering complete bank-
ing facilities for transact-
ing business with any
part of the world.

IRVING BANK-COLUMBIA
TRUST COMPANY

New York

AMERICAN BRANDS OF ZINC—(Continued).

Brand:	Description:	Producer:
Hegeler Selected	Selected	Hegeler Zinc Co., Danville, Ill.
Hegeler Standard	Prime Western	Hegeler Zinc Co., Danville, Ill.
Horse Head	High Grade	The N. J. Zinc Co., N. Y. City
Illini	Brass Special	Illinois Zinc Co., Peru, Ill.
Lanyon Extra Select	Brass Special	The American Metal Co., Ltd., N. Y. City
Media	B. S. & P. W.	United Zinc Smg. Corp., Moundsville, W. Va.
M. & H.	Prime Western	Matthiessen & Hegeler Zinc Co., La Salle, Ill.
Nassau	B. S., Sel'ct'd & P. W.	The N. J. Zinc Co., N. Y. City
National	B. S. & P. W.	Int. Min. & Metals Corp., N. Y. City
Sebastian	B. S. & P. W.	Ft. Smith Spelter Co., Ft. Smith, Ark.
Sterling	Intermediate	The N. J. Zinc Co., N. Y. City
Quinton	B. S. & P. W.	Quinton Spelter Co., Quinton, Okla.
Selected	Prime Western	Illinois Zinc Co., Peru, Ills.
Tadanac	B. S. & P. W.	The Cons. Min. & Smg. Co., Trail, B. C., Can.
U. S. Z. Co.	B. S. & P. W.	Amer. Smg. & Rfg. Co., N. Y. City
Warren	Prime Western	Ft. Smith Spelter Co., Ft. Smith, Ark.
White Bronze	Intermediate	The N. J. Zinc Co., N. Y. City

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MUNCIE, IND.

Rollers of

ZINC

**Long lengths in Rolls for
Automatic Feeding to
Stamping Presses or
Forming Machines**

Sheets and Discs cut to size

**Sides and Bottoms for
DRY BATTERIES**

**Superior Quality for Drawing,
Spinning and Stamping**

**ZINC
BOILER
HULL**

PLATES

ZINC SPECIFICATIONS.

The specifications (serial designation: B6-18) for primary or virgin zinc issued by the **American Society for Testing Materials** in 1911 and revised in 1918 provide that the zinc be made from ore or similar raw material by a process of reduction and distillation, or by electrolysis, and not produced from re-worked metal, and shall be considered in five grades as follows:

	Maximum Impurities.			Total not over
	(PER CENT) Lead.	Iron.	Cad- mium.	
High Grade*	0.07	0.03	0.07	0.10
Intermediate* ...	0.20	0.03	0.50	0.50
Brass Special* ..	0.60	0.03	0.50	1.00
Selected*	0.80	0.04	0.75	1.25
Prime Western ..	1.60	0.08	....	....

* It shall be free from aluminum.

The **Ordinance Department** specifications of March 8, 1918, provide that the chemical properties of the several grades of zinc shall be as follows:

	Grade A. Per Cent.	Grade B. Per Cent.	Grade C. Per Cent.
Zinc, minimum	99.50	99.35	98.00
Cadmium, maximum	.50	.50	.75
Iron, maximum	.03	.03	.08
Lead, maximum	.10	.25	1.00
Sum of cadmium, iron and lead, maximum ..	.50	.65	1.50
Aluminum	none	none	traces
Other elements: tin, arsenic, sulphur, antimony, etc.	none	traces	traces

The **Navy Department** specifications of June 1, 1918, provide that the chemical properties of the several grades of zinc shall be as follows:

	Grade A. Per Cent.	Grade B. Per Cent.	Grade C. Per Cent.
Zinc, minimum	99.85	99.35	98.00
Cadmium, maximum	.05	.50	.75
Iron, maximum	.03	.03	.08
Lead, maximum	.07	.20	1.00
Sum of cadmium, iron and lead, maximum ...	.10	.50	1.50
Aluminum, maximum ...	none	none	traces
Other elements: tin, arsenic, sulphur, antimony, etc.	none	traces	traces

Note—Both **Ordinance Department** and **Navy Department** specifications stipulate that ten grains of sample tested by Marsh tests shall not show more than a perceptible spot of arsenic on a cold porcelain surface.

Slab Zinc

Producers of
Intermediate

Victor and Ideal
Brands

Distributers for
Quinton Spelter Co.

Quinton, Oklahoma

Producers of
Prime Western Brass Special

General Smelting Co.

Stock Exchange Bldg.
Philadelphia, Pa.

ZINC PRICES IN NEW YORK.

High, low and average prices of Prime Western Zinc (spelter) in New York.

Year.	High.	Low.	Average.
1896 Lowest ..	4.25	3.60	3.94
1897	4.35	3.75	4.12
1898	5.30	3.87½	4.57
1899	7.00	4.45	5.75
1900	4.80	4.10	4.40
1901	4.50	3.90	4.08
1902	5.62½	4.10	4.90
1903	6.25	4.70	5.62
1904	6.12½	4.75	5.17
1905	6.65	5.30	5.99
1906	6.85	6.00	6.27
1907	7.25	4.35	6.20
1908	5.17½	4.35	4.74
1909	6.50	4.75	5.52
1910	6.35	5.25	5.66
1911	7.00	5.50	5.91
1912	7.65	6.45	7.11
1913	7.35	5.10	5.80
1914	6.20	4.75	5.30
1915 Highest .	27.50	5.70	14.44
1916	21.17½	8.37½	13.75
1917	11.05	7.67½	9.11
1918	9.85	6.82½	8.31
1919	9.30	6.35	7.39
1920	9.85	6.00	8.13
1921	6.10	4.25	5.15
1922	7.70	4.82½	6.09
1923	8.35	6.10	7.01
1924	8.20	6.00	6.70
1925	9.25	7.10	8.01
Average price for 30 years			6.50

"M. & H."

Zinc Sheets

Corrugated and Plain
FOR ALL PURPOSES

Ribbon Zinc
IN COILS

Boiler Plate
Zinc Shingles

Slab Zinc
Sulphuric Acid

Matthiessen & Hegeler
Zinc Company
LA SALLE, ILLINOIS

EASTERN OFFICE
111 BROADWAY, N. Y.
Telephone Rector 5595

CHICAGO OFFICE
39 South La Salle St.

America's Pioneer Zinc Rollers

ZINC PRICES IN NEW YORK.

Monthly average prices of Prime Western Zinc in New York.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. ..	6.55	7.23	5.33	6.52	18.18	9.97	7.88	7.47	9.57	5.93	5.06	7.31	6.77	8.11
Feb. ..	6.70	6.49	5.46	8.86	20.09	10.49	7.91	6.71	9.17	5.37	4.85	7.60	7.11	7.86
Mar. ..	6.93	6.29	5.35	10.12	18.10	10.82	7.60	6.53	8.97	5.20	5.00	8.22	6.84	7.69
Apr. ..	6.87	5.79	5.22	11.51	18.61	9.73	7.00	6.51	8.62	5.25	5.26	7.67	6.48	7.35
May ..	6.89	5.51	5.16	15.82	15.93	9.48	7.34	6.46	8.07	5.36	5.45	7.07	6.13	7.31
June ..	7.05	5.23	5.12	22.62	12.80	9.45	8.04	6.92	7.93	4.94	5.70	6.40	6.14	7.35
July ..	7.23	5.41	5.03	20.80	9.70	8.82	8.75	7.91	8.17	4.77	6.12	6.44	6.25	7.57
Aug. ..	7.13	5.80	5.63	14.45	9.10	8.48	9.08	7.85	8.29	4.69	6.59	6.70	6.53	7.94
Sept. ..	7.55	5.83	5.52	14.49	9.23	8.26	9.67	7.55	8.07	4.75	6.91	6.81	6.54	8.12
Oct. ...	7.61	5.47	4.99	14.07	10.01	8.12	9.13	7.84	7.54	5.11	7.20	6.65	6.68	8.68
Nov. ..	7.50	5.34	5.15	17.04	11.92	7.90	8.74	8.18	6.86	5.18	7.49	6.71	7.15	9.07
Dec. ..	7.36	5.22	5.67	16.91	11.28	7.77	8.56	8.75	6.32	5.24	7.47	6.60	7.73	9.06
Av. ...	7.11	5.80	5.30	14.44	13.75	9.11	8.31	7.39	8.13	5.15	6.09	7.01	6.70	8.01

Grasselli

PRIME WESTERN
BRASS MILL SPECIAL
HIGH GRADE

ZINC
SPELTER

Zinc Dust	Zinc Anodes
Sherardizing Zinc	Mossy Zinc
Cadmium Hydrate	Cadmium Sulphide
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Guardian Bldg.,
Cleveland, O.

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New York City

ZINC PRICES IN ST. LOUIS.

Monthly average prices of Prime Western Zinc, East St. Louis delivery.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. ..	6.39	7.04	5.14	6.33	18.01	9.82	7.71	7.12	9.22	5.44	4.71	6.96	6.42	7.76
Feb. ..	6.53	6.25	5.27	8.62	19.92	10.31	7.73	6.36	8.82	4.95	4.50	7.25	6.76	7.51
Mar. ..	6.74	6.08	5.15	9.80	17.91	10.65	7.42	6.18	8.62	4.73	4.65	7.87	6.49	7.34
Apr. ..	6.66	5.59	5.03	11.22	18.44	9.55	6.81	6.16	8.26	4.75	4.91	7.32	6.13	7.00
May ..	6.71	5.31	4.96	15.52	15.75	9.30	7.14	6.11	7.72	4.86	5.10	6.72	5.78	6.96
June .	6.85	5.05	4.93	22.14	12.62	9.28	7.85	6.57	7.58	4.44	5.35	6.05	5.79	7.00
July ..	7.04	5.23	4.84	20.53	9.52	8.64	8.43	7.56	7.82	4.27	5.77	6.09	5.90	7.22
Aug. ..	6.94	5.64	5.45	14.19	8.92	8.30	8.73	7.50	7.95	4.19	6.24	6.35	6.18	7.59
Sept. ..	7.37	5.65	5.33	14.10	9.06	8.09	9.31	7.20	7.77	4.25	6.56	6.46	6.19	7.77
Oct. ...	7.39	5.27	4.81	13.89	9.83	7.95	8.77	7.49	7.25	4.61	6.85	6.30	6.33	8.33
Nov. ..	7.32	5.15	4.97	16.87	11.75	7.73	8.39	7.83	6.37	4.68	7.14	6.36	6.80	8.72
Dec. ..	7.19	5.03	5.49	16.72	11.11	7.59	8.21	8.40	5.84	4.84	7.12	6.25	7.38	8.71
Av. ...	6.93	5.61	5.11	14.16	13.57	8.93	8.04	7.04	7.77	4.67	5.74	6.66	6.35	7.66

Quinton Spelter Co.

JOPLIN, MO.

WORKS, QUINTON, OKLA.

MANUFACTURERS OF

PRIME WESTERN

AND

BRASS SPECIAL

ZINC

*The Reputation of Our
Plant is Well Known*

All correspondence regarding the purchase of zinc metal) should be addressed to the Joplin office.

ZINC PRICES IN ST. LOUIS.

Extreme price fluctuations and annual averages of prime Western zinc (spelter), East St. Louis delivery, for twenty years.

Year.	High.	Low.	Average.
1906	6.65	5.75	6.10
1907 Lowest	6.80	4.00	5.90
1908	5.05	4.20	4.62
1909	6.30	4.62½	5.39
1910	6.10	4.90	5.42
1911	6.85	5.20	5.70
1912	7.50	6.25	6.93
1913	7.17½	4.95	5.61
1914	6.00	4.60	5.11
1915 Highest ...	27.00	5.55	14.16
1916	21.00	8.20	13.57
1917	10.87½	7.50	8.93
1918	9.50	6.62½	8.04
1919	9.00	6.00	7.04
1920	9.50	5.50	7.77
1921	5.60	4.12½	4.67
1922	7.35	4.47½	5.74
1923	8.00	5.75	6.66
1924	7.85	5.65	6.35
1925	8.90	6.75	7.66
Average price for 20 years.....			7.07

HIGH GRADE ZINC PRICES.

Approximate yearly average prices of high grade zinc (99.90% pure) delivered at eastern points.

1913	8.50c	1919	8.12½c
1914	8.00	1920	9.00
1915	31.00	1921	6.83
1916	22.12½	1922	6.70
1917	14.50	1923	8.58
1918	11.75	1924	8.33
		1925	9.04

Illinois Zinc Company

ESTABLISHED 1870

MANUFACTURERS OF
ROLLED SHEETS
RIBBON ZINC IN COILS
CORRUGATED ZINC SHEETS
SLAB ZINC
SULPHURIC ACID
ZINC OXIDE
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332 So. Michigan Ave.

NEW YORK

No. 2 Rector Street

Smelters and Rolling Mills
PERU, ILLINOIS

Zinc Ore Mines
JOPLIN, MO.

SHEET ZINC PRICE CHANGES.

Changes in the base price of Sheet Zinc f.o.b. smelter, with price of Zinc (spelter) East St. Louis, same date:

	Sheet Zinc (Spelter)			Sheet Zinc (Spelter)	
1911—			1922—		
High ..	8.50	6.85	Jan. 18	8.00	4.72½
Low ...	7.25	5.20	Mar. 27	7.50	4.65
1912—			July 31	7.75	6.22½
High ..	9.00	7.50	Sept. 11	8.00	6.35
Low ...	8.00	6.25	" 28	8.25	6.85
1913—			Oct. 7	8.50	6.65
High ...	9.00	7.17½	" 27	9.00	7.10
Low ...	7.00	4.95	Nov. '13	9.25	7.30
1914—			1923—		
High ..	8.75	6.00	Jan. 25	9.00	6.82½
Low ...	7.00	4.60	" 30	9.25	7.15
1915—			Feb. 23	9.35	7.45
High ..	33.00	27.00	Mar. 2	9.65	7.85
Low ...	8.75	5.55	" 20	10.00	8.00
1916—			Apr. 30	9.65	6.85
High ..	25.50	21.00	May 15	9.20	6.60
Low ...	15.00	8.20	June 26	8.90	5.77½
1917—			Aug. 20	9.25	6.45
Apr. 25	20.00	8.87½	1924—		
" 26	19.00	9.00	Jan. 3	9.50	6.27½
1918—			Feb. 6	9.75	6.65
Feb. 15	15.00	7.75	May 10	9.50	5.75
1919—			Aug. 21	9.85	6.25
Jan. 2	13.00	7.65	Oct. 23	10.25	6.40
Feb. 6	11.00	6.37½	Nov. 14	10.75	6.91½
Mar. 19	10.00	6.15	Dec. 29	11.00	7.80
July 23	10.50	8.00	1925—		
Nov. 14	11.00	7.95	Feb. 12	10.50	7.45
Dec. 16	11.50	8.17½	Mar. 19	10.25	7.30
1920—			April 14	10.00	7.06½
Jan. 6	12.00	9.43½	July 10	10.25	7.17½
" 15	12.50	9.37½	Aug. 15	10.50	7.57½
Nov. 6	11.50	6.80	Sept. 5	10.75	7.67½
1921—			" 23	11.00	7.87½
Feb. 9	11.00	5.00	Oct. 16	11.35	8.30
May 17	10.00	4.85	" 27	11.75	8.65
Nov. 14	9.00	4.72½	Nov. 9	12.00	8.82½
Dec. 27	8.50	4.82½			

ZINC ORE PRICES.

Monthly average prices of zinc blende 60% ore at Joplin, Mo.

	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. ...	38.71	51.01	99.82	74.87	57.02	43.45	56.83	27.14	26.45	40.71	43.06	54.77
Feb. ...	41.15	65.93	108.90	82.78	55.00	41.78	51.21	22.78	25.06	42.52	44.27	53.27
Mar. ..	38.54	62.73	99.10	82.83	50.14	41.55	51.27	21.92	26.33	48.15	41.50	53.21
Apr. ...	36.75	56.03	106.45	71.35	42.10	38.87	48.21	23.05	28.81	43.30	39.53	48.75
May ...	36.68	69.42	90.14	75.44	47.79	37.80	43.63	24.00	29.51	38.64	38.59	48.34
June ..	38.41	101.84	74.26	74.18	52.08	42.28	44.04	21.33	32.03	35.24	39.00	49.60
July ...	35.58	104.14	67.72	69.77	54.81	52.24	46.29	20.92	33.34	35.99	39.31	50.15
Aug. ...	41.02	79.87	59.11	70.00	53.30	49.00	47.52	20.81	36.25	38.34	42.20	63.60
Sept. ..	41.33	78.49	56.60	68.94	53.18	43.11	46.24	20.57	38.03	39.44	42.42	54.54
Oct. ...	38.46	81.72	64.34	64.86	54.70	44.37	40.90	23.92	41.43	38.85	42.34	56.26
Nov. ...	41.63	97.85	85.41	60.74	56.20	45.85	36.81	25.25	45.10	40.95	45.54	58.28
Dec. ...	44.95	92.64	87.26	61.12	44.60	49.21	31.51	27.00	42.33	40.80	50.62	56.51
Av.	39.43	78.47	83.26	70.52	51.68	43.63	46.07	23.78	35.01	40.95	42.54	53.43

SPELTER PRICES IN LONDON.

Monthly average prices of G. M. B. spelter.

	1923.	1924.	1925.
Jan.	£34 16s 8d	£34 9s 2d	£37 12s 10d
Feb.	35 8 9	36 1 6	36 4 4
Mar.	36 15 4	35 3 4	35 6 1
Apr.	34 6 8	32 11 6	34 2 0
May	31 0 11	30 14 7	33 16 5
June	29 12 6	31 13 8	33 17 5
July	29 8 4	32 1 4	34 14 1
Aug.	32 1 11	32 9 10	36 9 1
Sept.	33 2 10	32 16 6	37 1 6
Oct.	32 12 10	33 8 8	39 5 5
Nov.	33 0 1	34 17 7	38 13 5
Dec.	32 14 8	36 16 1	37 17 9

Av. £32 18s 6d £33 12s 0d £36 5s 0d

Extreme Prices and Annual Averages

For Twenty Years:

	High.	Low.	Average.
1906..	£29 10s 0d	£24 0s 0d	£27 1s 5d
1907..	28 2 6	19 10 0	23 16 9
1908..	21 17 6	†18 0 0	20 3 5
1909..	23 6 3	21 1 3	22 3 0
1910..	24 5 0	21 12 6	23 0 0
1911..	27 17 6	22 17 6	25 3 2
1912..	27 12 6	25 0 0	26 3 4
1913..	26 10 0	20 5 0	22 14 3
1914..	40 0 0	21 5 0	23 6 8
1915..	*115 0 0	28 0 0	66 13 8
1916..	110 0 0	44 0 0	68 8 11
1917..	58 0 0	45 10 0	52 3 6
1918..	56 0 0	50 0 0	52 3 11
1919..	59 10 0	34 15 0	42 5 3
1920..	62 10 0	22 10 0	45 4 5
1921..	28 5 0	23 10 0	26 4 0
1922..	39 5 0	23 17 6	29 14 2
1923..	38 2 6	27 15 0	32 18 6
1924..	39 5 0	29 15 0	33 12 0
1925..	40 12 6	33 10 0	36 5 0

*Highest. † Lowest.

ALUMINUM COMPANY OF AMERICA

General Sales Office
2400 Oliver Building
Pittsburgh, Penna.

Producers of Aluminum

ALUMINUM

Ingot

*Castings: Sand, Permanent-mold, Die
Rod, Wire, Rivets, Sheet and Foil
Screw Machine Products.*

*Extruded Shapes, Collapsible Tubes.
Tubing, Coils, Rigid Conduit.*

Solders and Flux

Bronze Powder for Paint, etc.

File Guides, all-aluminum.

*Cables, all-aluminum and steel re-
inforced, for electrical conductors.*

*"Light-House" Aluminum
Roofing Shingles.*

FLUORSPAR

MAGNESIUM

*Ingot, Alloys, Castings, Powder,
Tubing, Rod, Ribbon, Wire, etc.*

Export Sales Office:

*Aluminum Company of America
120 Broadway, N. Y.*

Canada:

*Aluminum Company of Canada, Ltd.
Toronto*

PRODUCTION OF PRIMARY ALUMINUM IN UNITED STATES.

The following table shows the growth of aluminum production in the United States since the beginning of the industry in 1883. Since 1904 the figures are based upon the estimates of the "Mineral Industry."

Year.	Production. Pounds.	Annual Increase. Pounds.	Per cent.
1883-90 .	149,265	.....	....
1891....	150,000	88,719	144.8
1892....	259,885	109,885	73.3
1893....	333,629	73,744	28.4
1894....	550,000	216,371	64.8
1895....	920,000	370,000	67.3
1896....	1,300,000	380,000	41.3
1897....	4,000,000	2,700,000	207.7
1898....	5,200,000	1,200,000	30.0
1899....	6,500,000	1,300,000	25.0
1900....	7,150,000	650,000	10.0
1901....	7,150,000	.....	....
1902....	7,300,000	150,000	2.1
1903....	7,500,000	200,000	2.7
1904....	7,700,000	200,000	2.6
1905....	11,350,000	3,650,000	47.4
1906....	14,350,000	3,000,000	26.4
1907....	26,000,000	11,650,000	81.2
1908....	13,000,000	*13,000,000	*50.0
1909....	15,000,000	2,000,000	15.4
1910....	12,000,000	*3,000,000	*20.0
1911....	28,600,000	16,600,000	138.3
1912....	40,000,000	11,400,000	39.8
1913....	64,900,000	24,900,000	62.2
1914....	90,000,000	25,100,000	38.6
1915....	99,000,000	9,000,000	10.0
1916....	139,000,000	40,000,000	40.4
1917....	200,000,000	61,000,000	43.8
1918....	225,000,000	25,000,000	12.5
1919....	198,000,000	*27,000,000	*12.0
1920....	198,000,000	.....	....
1921....	63,388,000	134,612,000	*68.0
1922....	114,640,000	51,252,000	80.9
1923....	213,820,000	99,180,000	86.5
1924....	187,392,000	*26,428,000	*12.4
1925†...	200,000,000	12,608,000	6.7

* Decrease. † Estimated by Robert J. Anderson.

BORONIC ALLOYS

**MAKE BETTER CASTINGS
OF
BRASS, BRONZE AND
ALUMINUM**

**Sole Manufacturers
AMERICAN
BORON PRODUCTS
CO., INC.**

READING, PENNSYLVANIA

write for complete details

WORLD'S PRODUCTION OF ALUMINUM.

As reported by Metallgesellschaft, and revised by American Bureau of Metal Statistics; in metric tons of 2,204.6 pounds.

	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.
United States	28,500	42,000	55,000	57,000	†58,100	†62,600	†24,500	†33,600	†58,500	65,500
Canada	8,500	8,500	11,800	15,000	15,000	12,000	8,000	10,000	12,000	8,000
N. America	37,000	50,500	66,800	72,000	73,100	74,600	32,500	43,600	70,500	73,500
France	6,000	9,600	11,100	12,000	10,300	12,300	8,400	7,500	17,000	18,500
Switzerland										
Germany	12,000	20,800	26,000	34,000	31,500	31,200	27,000	30,000	{ 15,000	20,000
Aust.-Hung.									{ 16,100	18,700
England	7,100	7,700	7,100	8,300	8,100	8,000		{ 5,000	8,000	12,000
Norway	2,300	4,300	7,600	6,900	3,100	5,600	{ 7,000	{ 4,900	9,600	22,000
Italy	900	1,100	1,700	1,700	1,700	1,700		{ 800	800	2,000
Europe ...	28,300	43,500	53,500	62,900	54,700	58,800	42,400	48,200	68,000	95,400
Grand Totals	65,300	94,000	120,300	134,900	127,800	133,400	74,900	91,800	138,000	168,900

† Based on data published by Andrew W. Mellon Sept. 28, 1924.

General Metals Refining Company

Broadway and Branch Streets
Saint Louis, Missouri

Manufacturers of
"GENARCO" BRAND

SUPER-NICKEL Babbitt
MOTOR GENUINE Babbitt
COPPER HARDENED Babbitt
MARVEL METAL
ANTI-FRICTION Babbitt
TYPE METALS

Also

Brass and Bronze Ingot
Aluminum Ingot
Babbitts - Standard and
Special
Solders
Die Casting Alloys
Battery Plate Metal
Special Alloys

We buy drosses, oxides, skimmings and
scrap metals of all kinds

BRANCH OFFICES and WAREHOUSES
New York, N. Y. Cleveland, Ohio
Minneapolis, Minn.

IMPORTS OF ALUMINUM.

	Crude, scrap, alloy. Pounds.	Value.	Mfrs. of Value.	Total Value.
1913	23,185,775	\$3,905,977	\$1,090,229	\$4,996,206
1914	16,241,340	2,729,383	1,308,036	4,037,419
1915	8,534,834	1,511,988	301,863	1,813,851
1916	6,646,385	1,729,298	55,864	1,785,162
1917	58,703	18,084	57,461	75,545
1918	1,800,436	569,150	39,114	608,264
1919	17,644,004	5,810,557	318,407	6,128,964
1920	40,074,132	11,880,176	2,554,097	14,434,273
1921	30,152,260	6,832,608	2,057,183	8,889,791
1922	41,730,990	7,744,019	1,950,993	9,695,012
1923	41,334,837	8,028,042	714,521	8,742,563
1924	30,997,371	6,640,192	504,844	7,145,036
1925	43,763,242	11,799,617	356,142	12,155,759

Plates, Sheets, Bars, Rods, Etc.

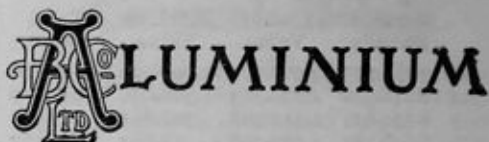
	Pounds.	Value.
1921.....	2,406,749	\$793,831
1922.....	2,150,357	540,233
1923.....	1,141,952	288,774
1924.....	812,570	219,593
1925.....	102,338	47,740

EXPORTS OF ALUMINUM.

Exports of aluminum in ingots, scrap and alloys and in manufactures; in pounds.

	Ingots, scrap, alloys.	Plates, sheets, bars, rods.	Other mfrs.	Totals.
1917*	9,470,206	550,198	.....	10,020,404
1918.	20,152,798	3,982,173	.....	24,134,971
1919.	4,458,195	562,157	.....	5,020,352
1920.	7,381,874	2,025,779	.....	9,407,653
1921.	1,051,833	1,144,545	.....	2,196,378
1922.	1,538,079	2,808,941	4,544,949	8,891,969
1923.	1,169,753	4,369,918	5,402,034	10,941,705
1924.	3,356,786	2,986,726	6,783,240	13,126,752
1925.	8,130,222	4,511,812	6,463,192	19,105,226

* Six months commencing July.



in all commercial forms as
produced by

**The
BRITISH ALUMINIUM
CO., Ltd.
(London England)**

in their works at

Kinlochleven	}	Scotland
Foyers		
Burntisland		

Larne	}	Ireland
-------	---	---------

Milton	}	England
Warrington		

Stangfjord	}	Norway
Vigeland		

Sole Agent for the United States

ARTHUR SELIGMAN
165 BROADWAY, NEW YORK

ALUMINUM PRICES.

Approximate annual range in prices of
98-99% aluminum in New York.

1900 .. 32.00—33.00	1913 .. 18.50—27.12½
1901 .. 31.00—33.00	1914 .. 17.37½—21.50
1902 .. 31.00—33.00	1915 .. 18.75—60.00*
1903 .. 31.00—33.00	1916 .. 53.00—67.00*
1904 .. 30.00—32.00	1917 .. 35.00—64.00*
1905 .. 33.00—35.00	1918 .. 32.00—33.00
1906 .. 35.00—38.00	1919 .. 29.00—33.00
1907 .. 36.00—50.00	1920 .. 22.00—32.75
1908 .. 22.00—34.00	1921 .. 17.00—26.00
1909 .. 22.00—24.00	1922 .. 16.50—23.00
1910 .. 22.00—24.00	1923 .. 22.50—27.75
1911 .. 18.50—22.50	1924 .. 26.00—28.00
1912 .. 18.75—27.12½	1925 .. 27.00—28.00

* During 1915, 1916 and 1917 the Aluminum Company of America sold consumers on annual contracts at much lower than the open market prices. The averages of these contract prices are estimated at 32.00c in 1915, 34.00c in 1916 and 37.00c in 1917.

PRODUCTION OF SECONDARY ALUMINUM IN U. S.

	Remelted Ingot.	(Pounds) Alloys.	Total.
1913	4,396,000	4,912,000	9,308,000
1914	5,582,000	3,462,000	9,044,000
1915	11,400,000	5,600,000	17,000,000
1916	25,800,000	12,800,000	38,600,000
1917	13,320,000	18,880,000	32,200,000
1918	12,100,000	18,000,000	30,100,000
1919	12,034,000	25,348,000	37,382,000
1920	10,000,000	21,000,000	31,000,000
1921	7,300,000	10,500,000	17,800,000
1922	14,380,000	18,200,000	32,580,000
1923	13,600,000	29,000,000	42,600,000
1924	20,700,000	33,300,000	54,000,000



EXCLUSIVELY ALUMINUM

INGOT

NATIONAL Ingot is produced in a plant devoted exclusively to Aluminum, by one of the oldest and largest refiners in the country. Every Ingot trade marked and numbered for your protection.

SHEET AND COILS

We are sole selling agents for Lehmaier Schwartz & Co., Inc. whose experience and facilities for manufacturing sheet and coils guarantees that our customers get a high grade product and prompt shipments.

Send us your inquiries for:

**No. 12 Aluminum
Pure Aluminum
Aluminum Hardener
Special Alloys
Aluminum Shot
Granular Aluminum
Aluminum Sheet
Aluminum Coils**

National Brand alloys produce smooth, sound, easy pouring castings.

Steel manufacturers find that National Brand Aluminum improves their ingot.

**The National Smelting
Company**
Cleveland, Ohio



ALUMINUM PRICES.

Monthly average prices based on open market quotations of pure aluminum (No. 1 virgin 98-99%) in New York.

	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. ..	26.31	18.86	19.01	54.33	60.00	37.24	33.10	32.00	22.86	17.74	22.75	27.61	27.00
Feb. ..	26.20	18.80	19.20	57.50	58.05	37.25	32.26	31.83	24.50	17.33	23.25	27.71	27.00
Mar. ..	26.72	18.30	18.94	60.52	59.23	32.79	29.81	31.50	23.44	17.52	24.95	27.57	27.00
Apr. ..	26.91	18.08	18.83	60.00	60.00	32.10	30.67	31.61	23.25	18.07	26.00	27.46	27.00
May ..	25.95	17.93	21.85	60.00	60.00	32.10	32.21	31.95	23.06	17.92	26.24	26.43	27.00
June ..	24.79	17.82	29.66	62.09	59.85	33.10	32.83	32.00	22.75	17.87	26.25	26.27	27.00
July ..	23.34	17.59	32.50	60.15	54.33	33.10	32.57	32.00	22.62	17.87	26.25	26.37	27.00
Aug. ..	22.73	20.38	34.00	59.48	48.48	33.10	32.23	32.21	20.22	17.87	26.07	26.52	27.00
Sept. ..	22.00	19.28	46.75	61.90	42.60	33.10	32.50	31.44	19.02	18.26	25.50	27.24	27.00
Oct. ...	20.32	18.25	54.17	64.55	38.59	33.10	32.50	29.12	17.85	20.32	25.50	27.16	27.24
Nov. ..	19.49	18.83	57.85	64.80	36.85	33.10	32.50	27.80	17.50	20.87	25.80	27.00	28.00
Dec. ..	18.85	19.02	56.80	63.40	37.00	33.10	32.48	23.83	17.50	22.52	26.31	27.00	28.00
Av. ...	23.63	18.59	34.13	60.73	51.25	33.60	32.14	30.61	21.21	18.68	25.41	27.03	27.19

ALUMINUM

QUALITY HIGHEST STANDARD

**Notched Bar Ingot
Slabs
Wire Bars
Etc.**

**"Neuhausener Metal"
of Swiss Origin**

"RISING



SUN"

TRADE MARK

J. E. DOCKENDORFF and CO., Inc.

Agents for the United States and Canada

**NEW YORK
20 BROAD STREET**

SYMBOLS USED FOR DESIGNATING GRADES OF ALUMINUM.

American producers of Aluminum use symbols of numbers and the letter "S" to designate various grades and tempers of plates, sheets, wire and rods and numbers for Aluminum in ingots.

Notched bars and ingots and waffle ingots from the pure metal are furnished in two grades designated as:

No. 1 containing not less than 98 per cent. Aluminum.

No. 2 containing less than 98 per cent. Aluminum.

Alloys of Aluminum are designated by numbers instead of ingredients; the most popular are Nos. 12, 31 and 63.

On manufactured forms the number preceding the letter "S" designates the purity or alloy, viz.:

2 S is pure Aluminum.

3 S, 5 S, 15 S, etc., are alloys.

The number following the "S" designates the temper or degree of hardness; taken with the gauge of material each higher number denotes one gauge harder; thus:

2 S0 is pure Aluminum, dead soft,

2 S1 is one gauge or number hard,

2 S2 is two numbers hard, etc.,

the higher the number following the "S", the harder the temper up to full hard.

Tempers are also designated by quarter-hard, half-hard and three-quarters hard which means that the article is annealed at a period of manufacture to acquire the desired temper. Designating tempers this way the degree of hardness is divided into the number of gauges; if pure half hard, the material would be annealed at half gauge, as 16 gauge annealed at 8 gauge or 2S8; 20 gauge at 10 ga. or 2S10, etc. The same applies to other tempers as 16 gauge quarter hard is annealed at 12 ga. or 2S4 and 20 ga. at 15 ga. or 2S5, etc.

Material that is to be drawn, stamped, spun, etc., should be soft temper; for slight draw or stamp, temper should be quarter hard; if to be bent at a sharp angle or fold on itself and flat surface to be fairly rigid, temper should be half hard; if for slight bend balance to be rigid, temper should be three-quarters hard.

HIGHEST
GRADE



99 1/2 %

ANTIMONY

Regulus H. T. C. Brand 99 1/2 %

Regulus S. G. C. Brand 99 %

Crude S. G. C. Brand 70 %

ANTIMONY ORE

Chinese White Oxide of Antimony

H. T. C. Brand 98 % Minimum

TUNGSTEN ORE

LEAD ORE

CHINESE TIN

SINO JAVA HANDELSVEREENIGING, Inc.

40 Rector Street, New York

TELEPHONE: WHITEHALL 2962

*We are sole representatives in the United States
and Canada of Kai Lee Gung Tse, of China.
and Schnabel, Gaumer & Co., Hamburg*

IMPORTS OF ANTIMONY.

(Metal and regulus; in pounds.)

	1922.	1923.	1924.	1925.
Jan.	1,070,781	450,240	629,954	832,587
Feb.	1,569,061	168,085	2,850,874	1,156,904
Mar.	2,441,872	545,440	1,527,893	1,761,739
Apr.	986,465	522,805	2,718,539	2,103,880
May	1,057,596	2,488,160	750,624	930,684
June	510,120	1,168,775	1,729,504	1,402,816
July	3,634,190	2,540,146	1,075,424	2,078,493
Aug.	2,288,528	2,735,484	164,444	3,016,590
Sept.	2,110,905	947,698	452,378	846,220
Oct.	694,176	1,478,848	744,755	2,508,692
Nov.	851,424	986,272	515,872	2,377,902
Dec.	528,745	1,594,975	1,391,869	2,301,583

T'tl 17,743,863 15,626,928 14,552,130 21,318,090

Years.	Crude and ore.	Metal and regulus.
1904	2,488,518	4,268,045
1905	1,970,788	4,941,247
1906	1,972,658	10,305,734
1907	2,771,387	9,600,901
1908	3,287,218	8,089,915
1909	3,453,542	9,557,956
1910	1,346,962	7,955,945
1911	1,641,467	8,486,137
1912	1,562,066	13,936,873
1913	4,021,486	12,479,727
1914	*1,986,082	13,110,426
1915	*3,374,012	17,484,030
1916	*9,485,423	19,749,830
1917	*11,920,443	35,649,113
1918	*2,719,062	27,748,318
1919	*727,462	14,250,158
1920	*1,363,441	24,947,121
1921	*196,107	21,153,331
1922	nil	17,743,863
1923	*2,094,095	15,626,928
1924	*1,797,950	14,552,130
1925	*1,538,133	21,318,090

* Antimony contents.

SPOT AFLOAT SHIPMENT

ANTIMONY

Regulus 99% up Crude 70% Oxide 98-99%

TUNGSTEN ORE—65% and up

ARNHOLD & COMPANY, INC.

21 State Street, New York City

Agents for

ARNHOLD & COMPANY, Ltd., China

Branches at

SHANGHAI HANKOW

CHANGSHA

CANTON

HONG KONG

TIENTSIN

PEKIN

MUKDEN

CONSUMPTION OF ANTIMONY IN THE UNITED STATES.

Compiled from data supplied by the U. S. Geological Survey, in tons of 2,000 pounds.

	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	†1925.
Domestic output	390	50	0	0	0	0	10	33	50
Contained in antimonial lead	2,759	2,566	1,943	2,033	1,589	1,441	2,170	2,763	2,200
Recovered in alloys	4,961	5,226	4,399	5,600	4,720	7,090	8,021	9,404	10,000
Imports:									
Metal and regulus	11,286	14,011	7,159	9,817	10,130	9,344	6,763	6,778	10,659
Crude and ore*	5,832	1,425	409	682	98	Nil	1,047	899	769
Totals	25,228	23,278	13,910	18,132	16,537	17,879	18,011	19,877	23,678
Exports	495	705	214	448	150	19	8	140	94

Available for consumption 24,733 22,573 13,696 17,684 16,387 17,860 18,003 19,737 23,584

* Antimony contents. † Estimated.

PRODUCTION OF ANTIMONIAL LEAD IN THE UNITED STATES.

From foreign and domestic ore, in tons of 2,000 pounds. * Estimated.

	Anti- monial Antimony lead. contents.	Anti- monial Antimony lead. contents.	Anti- monial Antimony lead. contents.	Anti- monial Antimony lead. contents.	Anti- monial Antimony lead. contents.						
1914..	16,667	2,693	1917..	18,646	2,759	1920..	12,535	2,033	1923..	14,100	2,170
1915..	23,224	3,425	1918..	18,570	2,566	1921..	10,064	1,589	1924..	20,787	2,763
1916..	24,038	3,496	1919..	13,874	1,943	1922..	8,075	1,441	1925*	17,000	2,200

WATSON, GEACH & CO., Inc.

BROKERS & IMPORTERS

56 Pine Street, New York City

PIG TIN

**STRAITS CHINESE
ENGLISH**

TIN ORE

ANTIMONY REGULUS

ANTIMONY ORE

SULPHIDE & OXIDE

WOLFRAM ORE

TUNGSTEN

FERRO & POWDER

Etc. Etc.

ANTIMONY SUPPLIES OF PRINCIPAL PRODUCING COUNTRIES.

Supplies of antimony of the four principal producing countries which furnish about 90% of the world's production. Excepting the Chinese figures (which are reported by the Hunan Antimony Association) the statistics represent the approximate recoverable metal content of ore produced or exported; according to the U. S. Geological Survey, with additions from official reports.

Exports from China—In Long Tons.

	Ore and Oxide.	Crude.	Metal and Regulus.
1919	570	2,102	6,110
1920	1,330	4,485	9,572
1921	1,158	2,494	12,466
1922	1,815	1,579	11,966
1923	2,017	2,881	11,494
1924	558	1,822	11,190
1925*			15,358

Production of France—In Metric Tons.

	Ore.	Antimony Content.
1919	4,123	1,230
1920	5,601	1,413
1921	6,123	1,595
1922	4,126	1,042
1923	2,185	568
1924	3,372	910

Exports from Algeria—In Metric Tons.

	Antimony Content.
1919	723
1920	1,000
1921	103
1922	530
1923	500
1924	905

Exports from Bolivia—In Metric Tons.

	Ore.	Antimony Content.
1920	1,100	484
1921	640	282
1922	420	185
1923	709	312
1924	1,410	621
1925†	2,470	1,087

* Changsha Customs statistics. † Eleven months only.

ANTIMONY

REFINED 99% up

CRUDE 70%

OXIDE 98-99%

Spot

Afloat

Shipment

**Francis A. Cundill
& Company**

63 Wall St., New York

**OLDEST AND LARGEST
IMPORTERS**

CHINESE ANTIMONY

ESTABLISHED 1900

**Direct Cable Connection
Hankow Changsha**

ANTIMONY PRICES.

Extreme price fluctuations and annual averages of Cookson's antimony in New York.

	High.	Low.	Average.
1898	9.75	8.00	
1899	12.00	10.00	
1900	11.10	10.00	10.80
1901	10.50	10.25	10.38
1902	10.25	9.25	9.94
1903	8.75	7.00	7.72
1904	10.00	7.00	7.78
1905	17.50	8.00	11.58
1906	28.00	14.00	22.85
1907	26.00	9.25	17.03
1908	9.50	8.00	8.56
1909	8.62½	7.87½	8.27
1910	8.50	7.50	8.24

Extreme price fluctuations and annual averages of ordinary grades (formerly Hungarian and French and latterly Chinese and Japanese brands) of antimony in New York.

	High.	Low.	Average.
1911	9.12½	6.90	7.48
1912	9.50	6.62½	7.63
1913	9.00	6.00	7.43
1914	18.00	5.30	8.53
1915	40.00	13.00	29.52
1916	45.00	10.50	25.33
1917	36.00	13.62½	20.73
1918	14.75	7.62½	12.55
1919	9.62½	6.50	8.16
1920	11.62½	5.20	8.38
1921	6.00	4.45	4.92
1922	7.00	4.15	5.42
1923	10.00	6.25	7.81
1924	17.50	8.25	10.77
1925	24.50	11.00	17.50

WAH CHANG'S
BRAND
"HIGHEST GRADE"
ANTIMONY



ALSO
ORDINARY CHINESE
99 per cent. Brand
CHINESE NEEDLE ANTIMONY
(Crude) Lump and Powdered
WHITE ANTIMONY OXIDE
98-99 per cent. Soluble
TUNGSTEN CONCENTRATES
70 per cent. WO_3 and over
CHINESE TIN, 99 and 96 per cent. Tin

IMPORTERS, EXPORTERS
and ENGINEERS

Wah Chang Trading Corporation

The world's largest antimony producers and largest
importers in the U. S. A.

Main Office

50th FLOOR, WOOLWORTH BLDG., NEW YORK

Mines and Smelteries, Changsha, China

CHINESE AND JAPANESE ANTIMONY.

Monthly average prices of Chinese and Japanese grade antimony (ordinary brands)
f.o.b. New York.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. ..	6.89	8.77	6.03	15.24	42.26	16.46	14.23	7.59	10.53	5.22	4.45	6.81	10.19	17.33
Feb. ..	6.78	8.16	6.00	17.62	43.87	30.00	13.67	7.24	11.55	5.23	4.38	7.20	10.79	19.87
Mar. ..	6.78	7.91	5.94	20.93	44.71	32.75	13.12	6.83	10.97	5.30	4.25	8.75	11.42	15.49
Apr. ..	6.87	7.82	5.82	23.97	41.35	34.66	12.52	6.82	10.45	5.15	4.88	8.38	9.92	12.49
May ..	6.98	7.75	5.78	34.71	32.20	25.57	12.41	7.56	9.44	5.25	4.42	7.43	8.62	16.37
June ..	7.07	7.62	5.62	36.53	20.40	19.77	12.99	8.37	7.93	5.06	4.13	6.84	8.39	16.61
July ..	7.37	7.55	5.44	35.98	14.55	15.81	13.18	8.81	7.43	4.68	5.08	7.05	8.47	17.71
Aug. ..	7.58	7.48	13.05	32.57	12.62	15.25	13.81	8.92	7.04	4.55	5.29	7.67	9.68	17.63
Sept. ..	8.00	7.31	9.79	28.50	11.57	14.95	13.93	8.53	7.10	4.53	6.43	7.52	10.98	17.06
Oct. ...	9.11	6.46	11.64	30.96	12.44	14.66	13.44	8.60	6.62	4.94	6.81	7.82	11.44	17.98
Nov. ..	9.11	6.28	14.14	37.88	13.65	13.90	9.10	9.06	6.05	4.66	6.54	9.03	14.30	19.83
Dec. ..	9.05	6.05	13.15	39.36	14.39	14.97	8.19	9.56	5.46	4.51	6.35	9.18	14.98	21.67

Av. ... 7.63 7.43 8.53 29.52 25.33 20.73 12.55 8.16 8.38 4.92 5.42 7.81 10.77 17.50

Note—Tariff from August 5, 1909: 1½ cents per lb.; from October 3, 1913: 10% ad valorem; from September 22, 1922: 2 cents per lb.

**UNITED STATES
NICKEL CO.**

NICKEL

SHOT - INGOT

NEW BRUNSWICK,

NEW JERSEY

NICKEL.

Imports of nickel and oxide, and nickel ore and matte; in pounds.

	Nickel and oxide.	Ore and matte.*	Combined value.
	— Pounds —		
1910		32,363,251	\$4,213,079
1911		29,829,268	4,022,716
1912		46,317,078	5,724,431
1913		47,446,520	6,562,555
1914		35,098,958	5,000,594
1915		56,599,381	7,629,686
1916		72,649,377	9,899,340
1917		75,526,767	9,617,163
1918	13,942	73,193,205	11,520,775
1919	7,259,160	29,303,228	8,334,135
1920	6,905,968	41,586,108	10,657,193
1921	2,353,941	2,042,178	1,210,317
1922	11,833,730	3,085,632	3,945,168
1923	26,067,383	14,601,820	6,601,995
1924	25,585,729	11,333,251	6,132,984
1925	33,188,949	9,912,145	7,781,146

* Nickel content.

Exports of Nickel, Nickel Oxide and Matte.

	Pounds.	Value.
1910	15,244,937	\$4,704,088
1911	25,099,586	8,283,777
1912	25,815,016	8,515,332
1913	29,173,088	9,686,794
1914	27,595,152	9,455,528
1915	26,418,550	10,128,514
1916	33,404,011	12,952,493
1917	21,992,820	8,936,620
1918	17,469,500	6,927,041
1919	3,810,656	1,697,544
1920	1,215,232	574,845
1921	425,851	103,372
1922	9,317,520	1,016,091
1923*	879,358	307,895
1924*†	1,915,456	565,911
1925*†	2,564,123	833,823

* Includes monel metal and alloys. † Exclusive of oxide and matte of which no imports are reported.

NICKEL

Shot

Ingot

Castings

Nickel Oxide 77.5%

Electrolytic 99.8%

Wire

Strip

Seamless Tubing

Rolled Nickel

In all commercial forms

MONEL METAL

Rod { *Hot Rolled*
Cold Drawn

Shot

Tubing

Wire

Strip

Sheet { *Hot Rolled*
Cold Rolled

Ingot

Castings

SEND FOR "LIST B" OF LITERATURE
THE INTERNATIONAL NICKEL CO.
67 WALL STREET NEW YORK

Monel Metal is a technically controlled nickel-copper alloy of high nickel content. It is mined, smelted, refined, rolled and marketed solely by The International Nickel Company. The name "Monel Metal" is a registered trademark.



NICKEL PRICES.

The following quotations on Nickel and Monel Metal are issued by The International Nickel Company, effective beginning January 15, 1926:

Nickel.

Ingot	35c per lb.
Shot	36c per lb.
Electrolytic	39c per lb.

Base Prices

Hot rolled malleable nickel sheet	52c per lb.
Cold rolled malleable nickel sheet	60c per lb.
Hot rolled rods, Grade A.....	50c per lb.
Cold drawn rods, Grade A.....	58c per lb.

Monel Metal.

Shot	32c per lb.
Blocks	32c per lb.

Base Prices

Hot rolled rods	35c per lb.
Cold drawn rods	43c per lb.
Hot rolled sheets	42c per lb.
Cold rolled sheets	50c per lb.

FORMS IN WHICH NICKEL AND MONEL METAL ARE OBTAINABLE.

Plates	Ingots	Wire Cloth
Shot	Castings	Billets
Tubing	Wire	Forgings
Cold rolled sheets		Cold drawn rods
Hot rolled strips		Hot rolled sheets
Cold rolled strips		Hot rolled rods

Angles and special shapes

NICKEL "MOND"

Analysis 99.5 to 100% Ni.

Manufactured by

**The Mond Nickel
Company, Ltd.**

London England

**Sole Agents For
U. S. A.**

**American Nickel Corporation
Clearfield
Penna.**

CANADIAN NICKEL PRODUCTION AND EXPORTS.

	Ore, Smelted. *Tons.	†Nickel Production. Pounds.	Value.
1916 ...	1,521,689	82,958,564	\$29,035,497
1917 ...	1,453,661	84,330,280	33,732,112
1918 ...	1,559,892	92,507,293	37,002,917
1919 ...	754,567	44,544,883	17,817,953
1920 ...	1,086,159	61,335,706	24,534,282
1921 ...	393,768	19,293,060	6,752,571
1922 ...	314,120	17,597,123	6,158,993
1923 ...	1,140,160	62,453,843	18,332,077
1924 ...	1,308,694	69,536,350	19,470,178
1925 ...	(‡)	73,770,842	25,082,086

* Tons of 2,240 pounds † Nickel contents of smelter products. ‡ Data not available.

Exports.

In ore and matte and refined nickel:

	Pounds.	Value.
1915	66,410,442	\$7,394,446
1916	80,441,700	8,662,179
1917	81,272,400	8,708,650
1918	87,478,500	11,263,246
1919	41,016,400	8,077,593
1920	60,199,300	11,988,857
1921	12,859,100	3,102,943
1922	31,217,900	6,824,288
1923	51,868,900	8,726,251
1924	62,698,000	10,266,966
1925	70,324,300	12,674,725

PRODUCTION OF BY-PRODUCT NICKEL IN U. S.—In Pounds.

1913	482,000	1919	1,022,000
1914	846,000	1920	730,000
1915	1,644,000	1921	222,000
1916	1,836,000	1922	416,000
1917	804,000	1923	200,000
1918	882,000	1924	382,000

QUICKSILVER PRODUCTION, IMPORTS AND EXPORTS.

In 75 lb. flasks.	—Production—		—United States—	
	World.	U. S.	Imports.	Exports.
1919 ...	91,139	21,415	10,635	9,107
1920 ...	85,596	13,392	14,169	1,553
1921 ...	62,742	6,339	10,601	393
1922 ...	93,041	6,375	16,920	291
1923 ...	94,608	7,937	18,073	318
1924 ...	*62,600	10,061	13,170	208
1925 ...	†	*9,000	22,781	204

* Estimated. † Not available.

Production of Spain and Italy.

Annual production of the two principal producing countries:

	1920.	1921.	1922.	1923.	1924.
Spain .	25,330	18,678	38,748	33,646	26,418
Italy ..	41,182	31,482	45,298	48,666	21,164

QUICKSILVER PRICES IN NEW YORK.

According to the Engineering and Mining Journal-Press, through 1923 and the American Metal Market thereafter; per flask of 75 pounds.

Av...	1916.	1917.	1918.	1919.	1920.
	\$125.49	\$106.30	\$123.47	\$92.15	\$81.12
	1921.	1922.	1923.	1924.	1925.
Jan	\$48.44	\$49.96	\$72.73	\$60.66	\$81.77
Feb.	49.55	48.29	70.64	61.08	79.11
Mar.	46.80	50.20	70.81	64.74	81.44
April	45.42	52.28	69.20	75.98	83.42
May	47.00	54.88	68.00	77.59	81.48
June	46.85	55.11	67.77	75.69	83.61
July	44.95	55.00	66.98	72.68	83.60
Aug.	45.03	57.59	65.21	72.58	82.79
Sept.	42.66	67.64	63.00	72.13	81.79
Oct.	39.84	72.56	61.77	70.82	83.54
Nov.	39.80	71.52	61.92	69.07	89.70
Dec.	49.21	72.30	60.00	73.12	90.14
Av. .	\$45.46	\$58.95	\$66.50	\$70.51	\$83.53

U. S. AND WORLD'S GOLD PRODUCTION

As reported by the Director of the Mint, except the world's output for 1913 to 1924 inclusive, for which the figures of the American Bureau of Metal Statistics are used; in fine ounces.

	World.	Production — United States.	U. S. Per cent. of Total.
1912...	22,549,335	4,520,719	20.05
1913...	22,145,314	4,299,784	19.42
1914...	21,697,416	4,572,976	21.08
1915...	22,593,833	4,887,604	21.63
1916...	21,976,437	4,479,057	20.38
1917...	20,611,049	4,051,440	19.66
1918...	18,556,920	3,320,784	17.90
1919...	17,629,977	2,918,628	16.55
1920...	16,125,697	2,476,166	15.35
1921...	15,983,772	2,422,006	15.15
1922...	15,444,830	2,363,075	15.30
1923...	17,786,472	2,502,632	14.07
1924...	18,574,098	2,511,243	13.52
1925...	*	2,376,514	*

U. S. AND WORLD'S SILVER PRODUCTION.

As reported by the Director of the Mint, except the world's output for 1913 to 1924 inclusive and the production of the United States for 1923 and 1924, for which the figures of the American Bureau of Metal Statistics are used; in fine ounces.

	World.	Production — United States.	U. S. Per cent. of Total.
1912...	230,904,241	63,766,800	27.62
1913...	225,686,823	66,801,500	29.59
1914...	178,331,493	72,455,100	40.63
1915...	189,626,405	74,961,075	39.53
1916...	180,112,525	74,414,802	41.32
1917...	187,443,658	71,740,362	38.27
1918...	204,199,399	67,810,139	33.21
1919...	181,800,394	56,682,445	31.18
1920...	173,200,618	55,361,573	31.96
1921...	171,873,246	53,052,441	30.87
1922...	210,533,502	56,240,048	26.71
1923...	240,052,014	66,163,338	27.56
1924...	240,935,689	64,221,655	26.65
1925...	†240,000,000	65,722,720	†27.38

* World's production not available. † Estimated.

Established 1881

Irvington Smelting & Refining Works

Formerly Glorieux Smelting & Refining Works

Buyers, Smelters and
Refiners of:

Ores, Sweeps, Bullion,
Residues, Scrap, Concen-
trates, Mattes, Etc.

Containing:
Gold, Silver, Platinum,
Palladium, Iridium, Copper
and Lead

Manufacturers
of Copper Sulphate

Irvington, New Jersey

Lehigh Valley R. R. Connection

New York Office

CHARLES ENGELHARD

Hudson Terminal Building, 30 Church Street

SILVER IMPORTS AND EXPORTS.

Imports.

1912 ...	\$48,401,086	1919 ...	\$89,410,018
1913 ...	35,867,819	1920 ...	88,060,041
1914 ...	25,959,187	1921 ...	63,242,671
1915 ...	34,483,954	1922 ...	70,806,653
1916 ...	32,263,289	1923 ...	74,453,530
1917 ...	53,340,477	1924 ...	73,944,902
1918 ...	71,375,699	1925 ...	64,595,418

Exports.

	Domestic.	Foreign.	Total.
1913			\$62,776,631
1914			51,603,060
1915 ...	\$47,467,235	\$6,131,649	53,598,884
1916 ...	64,985,637	5,609,400	70,595,037
1917 ...	77,726,074	6,404,802	84,130,876
1918 ...	239,972,503	12,873,961	252,846,464
1919 ...	207,765,243	31,255,808	239,021,051
1920 ...	85,016,071	28,600,153	113,616,224
1921 ...	24,502,947	27,072,452	51,575,399
1922 ...	25,457,915	37,349,371	62,807,286
1923 ...	40,387,198	32,081,591	72,468,789
1924 ...	91,160,389	18,730,644	109,891,033
1925 ...	81,802,658	17,324,927	99,127,585

GOLD IMPORTS AND EXPORTS.

	Imports.	Exports.
1913	\$63,704,832	\$91,798,610
1914	57,387,741	222,616,156
1915	451,954,590	31,425,918
1916	685,990,234	155,792,927
1917	552,454,374	371,883,884
1918	62,042,748	41,069,818
1919	76,534,046	368,185,248
1920	417,068,273	322,091,208
1921	691,248,297	23,891,377
1922	275,169,785	36,874,894
1923	322,715,812	28,643,417
1924	319,720,918	61,648,313
1925	128,273,172	262,639,790

SCHWITTER, CLOVER & STARKWEATHER, Inc.

Metallurgical Chemists

Smelters

Refiners

Dealers

**GOLD
SILVER
SULPHIDES
PLATINUM
PALLADIUM
IRIDIUM
RUTHENIUM
RHODIUM
OSMIUM**

**312-320 Passaic Avenue
NEWARK, N. J.**

Tel. Market 6629

New York Office: 108 Fulton Street

Room 811-812

Tel. Beekman 8959

SILVER PRICES IN NEW YORK.

Monthly average prices of Silver in New York, per fine ounce.

	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. . .	57.57	48.85	56.77	75.63	88.70	101.12	132.83	65.95	65.45	65.71	63.44	68.45
Feb. . .	57.51	48.48	56.75	77.58	85.72	101.12	131.29	59.32	65.31	64.34	64.36	68.47
Mar. . .	58.07	50.24	57.93	73.86	88.08	101.12	125.55	56.03	64.38	67.53	63.96	67.79
Apr. . .	58.52	50.25	64.41	73.87	95.35	101.12	119.53	59.34	66.57	66.85	64.14	66.90
May . .	58.17	49.91	74.27	74.74	99.50	107.11	102.58	59.85	71.15	67.07	65.52	67.58
June . .	56.47	49.03	65.02	76.97	99.50	110.44	90.82	58.51	71.15	64.84	66.69	69.12
July . .	54.68	47.52	62.94	79.01	99.62	106.39	91.93	60.26	70.24	63.01	67.16	69.44
Aug. . .	54.34	47.16	66.08	85.41	100.29	111.37	96.18	61.60	69.40	62.78	68.52	70.25
Sept. . .	53.29	48.68	68.51	100.74	101.12	114.54	93.65	66.15	69.50	64.22	69.35	71.61
Oct. . .	50.65	49.38	67.85	87.33	101.12	119.14	83.48	70.97	68.01	63.65	70.87	71.11
Nov. . .	49.08	51.71	71.60	85.89	101.12	127.91	77.64	68.23	65.18	63.82	69.30	69.22
Dec. . .	49.37	54.97	75.76	85.96	101.12	131.98	64.78	65.76	64.62	64.70	68.10	68.89
Av. . .	54.81	49.68	65.66	81.42	96.77	111.11	100.86	62.66	67.58	64.88	66.78	69.07

* Quotations suspended August 1st to 21st.

Note—From June 17, 1920 to May 31, 1923, the averages are based on the price of foreign silver, the price of domestic silver being retained at \$1.00 by Government purchases under the Pittman Act, which became inoperative in June, 1923.

ESTABLISHED 1842



BISHOP PLATINUM WARE

DISHES	TONGS	WIRE
CRUCIBLES	TRIANGLES	SPINNERETS
ELECTRODES	SHEET	CONTACTS
CONES	FOIL	TUBING



ALLOYS

SILVER, GOLD and METALS
of the PLATINUM Group. . .



REFINING ASSAYING

J. BISHOP & CO. PLATINUM WORKS

MALVERN, PA.

U. S. AND WORLD'S PRODUCTION OF PLATINUM.

Comparison of the production of crude platinum in the United States and of the world's estimated output, in troy ounces:

	U. S. production.	World's production.
1916	750	90,023
1917	605	83,280
1918	647	62,901
1919	824	67,892
1920	613	73,801
1921	977	59,593
1922	1,008	65,289
1923	609	66,001
1924	335	†

† Statistics not available.

IMPORTS OF PLATINUM.

Imports of platinum or crude platinum and unmanufactured products in ingots, bars, sheets, wire and other platinum metals:

Other Platinum Metals.				Platinum.	
	Troy oz.	Value.		Troy oz.	Value.
1916				53,484	\$3,138,396
1917				30,316	2,414,773
1918				54,963	4,949,855
1919				54,550	5,229,309
1920				80,955	8,474,499
1921 ... 16,218		\$1,274,705		62,097	4,129,639
1922 ... 15,041		1,181,185		94,939	7,790,898
1923 ... 20,117		1,538,899		86,417	8,923,037
1924 ... 15,629		1,203,869		95,713	9,824,113
1925 ... 19,263		1,932,688		106,478	11,300,559

EXPORTS OF PLATINUM.

Exports of platinum or crude platinum and unmanufactured products, ingots, sheets, wire, alloys:

	Quantity, Troy oz.	Value.
1919	551	\$75,066
1920	1,302	177,115
1921	3,272	244,473
1922	1,456	140,196
1923	1,151	128,599
1924	5,854	643,282
1925	16,234	1,787,122

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PLATINUM RECOVERED IN U. S.

New platinum metals recovered by refiners, in troy ounces.

	Plati- num.	Iri- dium.	Palla- dium.	Others.	Total.
1916	24,518	370	2,885	...	27,773
1917	33,009	210	4,779	...	37,998
1918	54,399	465	4,024	...	58,888
1919	40,220	401	3,807	681	45,109
1920	36,015	418	4,309	802	41,544
1921	51,791	286	2,686	1,607	56,370
1922	54,142	210	1,943	1,423	57,718
1923	46,780	280	1,934	803	49,797
1924	57,827	680	6,065	1,435	66,007

Secondary Platinum.

Platinum metals recovered from scrap and other old material, in troy ounces.

	Plati- num.	Iri- dium.	Palla- dium.	Others.	Total.
1916	45,156	1,535	1,284	...	47,975
1917	59,007	9,832	3,347	...	72,186
1918	39,131	3,410	1,795	...	44,336
1919	54,545	3,504	3,467	...	61,516
1920	51,255	3,355	3,100	...	57,710
1921	39,131	1,776	4,887	229	46,023
1922	40,062	1,937	4,193	496	46,688
1923	39,152	2,021	6,246	453	47,872
1924	45,474	2,200	5,784	1,013	54,471

STOCKS OF PLATINUM.

Stocks of platinum metals on hand in the United States at the beginning of each year, in troy ounces.

	Plati- num.	Iri- dium.	Palla- dium.	Others.	Total.
1921	46,747	4,196	16,565	...	67,508
1922	38,514	4,991	21,042	3,113	67,660
1923	41,900	7,559	24,975	1,583	76,017
1924	36,554	5,208	26,266	2,697	70,725
1925	40,464	3,622	27,400	3,053	74,539

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CONSUMPTION OF PLATINUM.

Platinum metals used in the United States, according to the U. S. Geological Survey:

	Platinum.	Iridium.	Palladium.	Others.	Totals.
1918	100,810	5,302	9,053	....	115,165
1919	133,680	7,501	13,562	....	154,743
1920	123,054	6,054	11,933	....	141,041
1921	151,077	7,417	17,654	....	176,148
1922	156,838	5,444	19,216	1,461	182,959
1923	152,376	6,494	30,201	1,712	190,783

By Consuming Industries, in 1924:

	Platinum.	Iridium.	Palladium.	Others.	Totals.	Per cent of total.
Chemical	10,507	122	436	403	11,468	6.95
Electrical	16,588	1,269	3,099	...	20,956	12.70
Dental	11,092	131	10,049	...	21,272	12.89
Jewelry	87,151	2,204	12,480	746	102,581	62.16
Miscellaneous	5,012	634	2,122	973	8,741	5.30
Totals	130,350	4,360	28,186	2,122	165,018	100.00



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PLATINUM PRICES IN NEW YORK.

Monthly average prices of Platinum in New York according to the Engineering and Mining Journal-Press in dollars, per troy ounce.

	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.
Jan. .	43.38	41.10	90.05	87.83	105.92	104.85	154.23	73.40	97.26	112.46	122.11	117.00
Feb. .	43.50	40.00	90.00	103.75	107.68	100.43	151.59	70.23	89.54	113.27	124.74	117.00
Mar. .	43.50	39.50	90.75	103.33	108.00	99.20	138.56	72.46	87.50	110.85	121.69	117.00
Apr. .	43.50	38.63	83.10	103.77	108.00	99.85	127.04	73.40	87.50	116.84	115.58	118.27
May .	43.50	38.50	80.50	105.00	106.27	102.60	97.50	73.74	85.53	115.01	115.73	119.85
June .	43.50	38.00	78.13	104.75	105.00	105.80	85.19	74.94	87.21	115.61	116.00	120.00
July .	43.50	38.00	63.60	103.88	105.00	105.90	83.94	70.44	90.18	116.00	118.23	120.00
Aug. .	50.20	39.25	62.56	104.55	105.00	107.60	111.44	73.22	98.37	116.00	120.00	120.00
Sept. .	50.00	50.00	84.25	104.13	105.00	128.70	115.20	75.96	117.28	116.00	118.92	120.00
Oct. .	49.50	54.50	89.75	104.00	105.00	132.11	101.70	81.80	109.44	116.92	118.00	120.00
Nov. .	45.45	62.63	101.25	104.52	105.00	136.74	84.75	82.61	108.00	124.48	117.79	120.00
Dec. .	42.19	85.50	86.87	104.38	105.54	151.35	79.62	78.19	113.60	125.00	117.00	120.00
Av. . .	45.14	47.13	83.40	102.82	105.95	114.61	110.90	75.03	97.62	116.54	118.82	119.09

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SCRAP METAL PRICES IN 1924 AND 1925.

Monthly and yearly averages of dealers' buying prices for the principal grades of metal scrap at New York.

	Heavy Copper		No. 1 Com- position	Heavy Lead		New Zinc Clips		Old Zinc		Block Tin Pipe		Cast Aluminum	
	1924	1925		1924	1925	1924	1925	1924	1925	1924	1925	1924	1925
Jan.	10.77	11.90	8.97	9.40	6.85	8.43	4.62	4.88	4.12	4.40	39.50	51.00	15.67
Feb.	10.05	11.60	8.38	9.00	7.28	7.70	4.70	4.88	4.12	4.32	41.30	48.66	16.24
Mar.	10.94	11.58	8.85	8.88	7.75	7.12	4.86	5.04	4.12	4.22	46.64	46.58	16.85
Apr.	10.76	11.12	8.86	8.37	6.66	6.84	4.86	4.87	4.12	4.15	42.30	44.19	16.48
May	10.39	11.12	8.41	8.37	6.04	6.77	4.61	4.98	3.91	4.23	38.19	44.28	15.38
June	10.26	10.95	8.86	8.49	5.75	7.58	4.45	5.20	3.62	4.45	36.83	46.45	14.84
July	10.13	11.37	7.71	9.04	6.18	6.97	4.37	5.12	3.62	4.37	38.31	48.06	14.85
Aug.	11.02	11.92	8.28	9.37	6.96	7.96	4.64	5.12	3.71	4.37	43.63	49.50	15.07
Sept.	10.85	11.87	8.32	9.16	7.05	8.20	4.68	5.12	3.93	4.37	43.40	49.98	15.63
Oct.	10.41	11.87	8.06	8.87	7.05	7.87	4.62	5.39	3.87	4.60	44.17	53.36	15.80
Nov.	11.01	11.93	8.68	8.85	7.62	8.10	4.65	6.01	3.87	4.96	46.40	55.53	16.00
Dec.	11.69	11.54	9.19	8.83	8.02	7.93	4.82	6.00	4.30	5.00	48.54	53.90	16.00
Aver.	10.69	11.56	8.55	8.80	6.93	7.62	4.65	5.20	3.94	4.45	42.43	49.29	15.72
High	12.25	12.00	9.75	9.75	8.50	8.50	5.25	6.25	4.75	5.00	53.00	58.00	17.00
Low	9.75	10.75	7.50	8.25	5.50	6.00	4.25	4.50	3.50	4.00	36.00	42.00	14.50

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 Pope Trading Corp., 90 West St., N. Y.
 The Seymour Mfg. Co., Seymour, Conn.

ANODES (Zinc).

Federated Metals Corp., 233 Broadway, N. Y.
 The Grasselli Chemical Co., Cleveland, O.
 Hazel Atlas Glass Co., 53 Park Place, N. Y.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 The Seymour Mfg. Co., Seymour, Conn.

ANTIMONY.

Arnhold & Co., 21 State St., N. Y.
 Associated Metals & Minerals Corp.,
 100 East 42nd St., N. Y.
 S. Birkenstein & Sons, Inc.,
 1054 W. North Ave., Chicago, Ill.
 China Commercial Co., Ltd., 40 Rector St., N. Y.
 The Cincinnati Railway Supply Co.,
 13 E. 2nd St., Cincinnati, O.
 Francis A. Cundill & Co., 63 Wall St., N. Y.
 Federated Metals Corp., 233 Broadway, N. Y.
 Gardiner Metal Co., 1356-64 W. Lake St., Chicago.
 General Metals Refining Co., St. Louis, Mo.
 Girard Smelting & Refining Co., Philadelphia, Pa.
 Chas. Gitlan, 35 Nassau St., N. Y.
 Hendricks Bros., Inc., 49 Cliff St., N. Y.
 H. Hollesen, Inc., 17 Battery Place, N. Y.

ANTIMONY. (Ctd.)

Hoyt Metal Co., 111 Broadway, N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 H. Kramer & Co., Loomis St. & 21st Pl. Chicago.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 Metallurgical & Chemical Corp., Matawan, N. J.
 Metals Refining Co., P. O. Box 138, Hammond, Ind.
 Michigan Smelting & Refining Co., Detroit, Mich.
 A. W. Millhauser Corp., 25 Broadway, N. Y.
 Mitsui & Co., Ltd., 65 Broadway, N. Y.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 E. L. Murphy & Co., Tribune Tower, Chicago, Ill.
 The Nassau Smelting & Refining Works, Ltd.,
 603 West 29th St., N. Y.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Henry Shambroom & Co., Inc., 291 Broadway, N. Y.
 Sino Java Handelsvereeniging, Inc.,
 40 Rector St., N. Y.
 Suzuki & Co., 220 Broadway, N. Y.
 C. Tennant Sons & Co. of N. Y., 19 W. 44 St., N. Y.
 Tottenville Copper Co., Inc., Tottenville, N. Y.
 C. S. Trench & Co., 11 Cliff St., N. Y.
 Nathan Trotter & Co., Philadelphia, Pa.
 Wah Chang Trading Corp., Woolworth Bldg., N. Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.

ANTIMONIAL LEAD.

The American Metal Co., Ltd., 61 Broadway, N. Y.
 American Smelt. & Refg. Co., 120 Broadway, N. Y.
 Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
 S. Birkenstein & Sons, Inc.,
 1054 W. North Ave., Chicago, Ill.
 The Cincinnati Railway Supply Co.,
 13 East 2nd St., Cincinnati, O.
 Federated Metals Corp., 233 Broadway, N. Y.
 Gardiner Metal Co., 1356-64 W. Lake St., Chicago.
 General Metals Refining Co., St. Louis, Mo.
 Girard Smelt. & Refg. Co., Philadelphia, Pa.
 Hoyt Metal Co., 111 Broadway, N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 The Koblitz-Kohn Co., Cleveland, O.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 Metallurgical & Chemical Corp., Matawan, N. J.
 Metals Refining Co., P. O. Box 138, Hammond, Ind.

ANTIMONIAL LEAD. (Ctd.)

A. W. Millhauser Corp., 25 Broadway, N. Y.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 E. L. Murphy & Co., Tribune Tower, Chicago, Ill.
 The Nassau Smelting & Refining Works, Ltd.,
 603 West 29th St., N. Y.
 National Smelting & Refining Co., Detroit, Mich.
 Pennsylvania Smelting Co., Pittsburgh, Pa.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Societe Generale des Minerais, 31, Rue du Marais,
 Brussels, Belgium.
 Tottenville Copper Co., Inc., Tottenville, N. Y.
 C. S. Trench & Co., 11 Cliff St., N. Y.
 United Metals Selling Co., 25 Broadway, N. Y.
 U. S. Smelt., Ref., & Min. Co., 120 Broadway, N. Y.
 Wah Chang Trading Corp., Woolworth Bldg., N. Y.

ANTIMONY (White Oxide).

Arnhold & Co., 21 State St., N. Y.
 Federated Metals Corp., 233 Broadway, N. Y.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 Metallurgical & Chemical Corp., Matawan, N. J.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Sino Java Handelsvereniging, Inc.,
 40 Rector St., N. Y.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 Wah Chang Trading Corp., Woolworth Bldg., N. Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.

ARSENIC (Metallic).

The American Metal Co., Ltd., 61 Broadway, N. Y.
 American Smelt. & Refg. Co., 120 Broadway, N. Y.
 Furukawa & Co., Ltd., Tokyo, Japan.
 Chas. Gitlan, 35 Nassau St., N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 Metallurgical & Chemical Corp., Matawan, N. J.
 A. W. Millhauser Corp., 25 Broadway, N. Y.
 Mitsui & Co., Ltd., 65 Broadway, N. Y.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 Sino Java Handelsvereniging, Inc.,
 40 Rector St., N. Y.
 Watson, Geach & Co., 56 Pine St., N. Y.

ARSENIC (White).

American Smelt. & Refg. Co., 120 Broadway, N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 Metallurgical & Chemical Corp., Matawan, N. J.
 A. W. Millhauser Corp., 25 Broadway, N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 Sino Java Handelsvereeniging, Inc.,
 40 Rector St., N. Y.
 Societe Generale des Minerais, 31, Rue du Marais,
 Brussels, Belgium.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 United Metals Selling Co., 25 Broadway, N. Y.
 Wah Chang Trading Corp., Woolworth Bldg., N. Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.

ASSAYERS.

C. L. Constant Co., 220 Broadway, N. Y.
 Ledoux & Co., 99 John St., N. Y.
 N. Y. Testing Laboratories, So. Wash. St., N. Y.

AXLES (Car and Locomotive).

Illinois Steel Co., Chicago, Ill.

BABBITT METALS.

The Ajax Metal Co., Philadelphia, Pa.
 Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
 S. Birkenstein & Sons, Inc.,
 1054 W. North Ave., Chicago, Ill.
 A. W. Cadman Mfg. Co., Pittsburgh, Pa.
 T. E. Conklin Brass & Copper Co.,
 54 Lafayette St., N. Y.
 The Eagle-Picher Lead Co., Chicago, Ill.
 Federated Metals Corp., 233 Broadway, N. Y.
 Gardiner Metal Co., 1356-64 W. Lake St., Chicago.
 General Metals Refining Co., St. Louis, Mo.
 Girard Smelting & Refg. Co., Philadelphia, Pa.
 Hoyt Metal Co., 111 Broadway, N. Y.
 The Koblitz-Kohn Co., Cleveland, O.
 H. Kramer & Co., Loomis St. & 21st Pl., Chicago.
 Marks Lissberger & Sons Inc.,
 281 Borden Ave., L. I. City, N. Y.
 Magnus Metal Co., Inc., Chicago, Ill.
 Metallurgical & Chemical Corp., Matawan, N. J.
 Metal Refining Co., P. O. Box 138, Hammond, Ind.
 Michigan Smelt. & Refg. Co., Detroit, Mich.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 The Nassau Smelting & Refining Works, Ltd.,
 603 West 29th St., N. Y.

BABBITT METALS. (Ctd.)

National Smelting & Refining Co., Detroit, Mich.
 Niagara Falls Smelt. & Refg. Corp., Buffalo, N.Y.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 E. L. Post & Co., Inc., 50 Cliff St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Shoop Bronze Co., Tarentum, Pa.
 Tottenville Copper Co., Inc., Tottenville, N. Y.

BARRELS (Steel).

Wheeling Steel Corp., Wheeling, W. Va.

BARS AND BANDS (Steel).

Bethlehem Steel Co., Bethlehem, Pa.
 Carnegie Steel Co., Pittsburgh, Pa.
 Illinois Steel Co., Chicago, Ill.
 Inland Steel Co., Chicago, Ill.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 Pittsburgh Steel Co., Pittsburgh, Pa.
 Republic Iron & Steel Co., Youngstown, O.
 Sharon Steel Hoop Co., Sharon, Pa.
 The Trumbull Steel Co., Warren, O.
 Waldo, Egbert & McClain, Inc., Buffalo, N. Y.
 West Leechburg Steel Co., Pittsburgh, Pa.
 Wheeling Steel Corp., Wheeling, W. Va.
 The Youngstown Sheet & Tube Co., Youngstown, O.

BARS (Cold drawn iron and steel).

Bethlehem Steel Co., Bethlehem, Pa.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.

BARS (Iron).

Bethlehem Steel Co., Bethlehem, Pa.
 Republic Iron & Steel Co., Youngstown, O.

BARS (Low Phosphorus).

Bethlehem Steel Co., Bethlehem, Pa.
 Inland Steel Co., Chicago, Ill.
 Republic Iron & Steel Co., Youngstown, O.
 Frank Samuel & Co., Philadelphia, Pa.
 Walter-Wallingford & Co., Cincinnati, O.

BARS (Reinforcing concrete).

Carnegie Steel Co., Pittsburgh, Pa.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Illinois Steel Co., Chicago, Ill.
 Inland Steel Co., Chicago, Ill.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 Republic Iron & Steel Co., Youngstown, O.
 The Youngstown Sheet & Tube Co., Youngstown, O.

BARYTES.

Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
C. W. Leavitt & Co., 30 Church St., N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
C. Tennant Sons & Co., of New York,
19 West 44th St., N. Y.

BATTERY SHEETS (Zinc).

The American Zinc Products Co., Greencastle, Ind.
Hazel Atlas Glass Co., 53 Park Place, N. Y.
Matthiessen & Hegeler Zinc Co., LaSalle, Ill.
The New Jersey Zinc Co., 160 Front St., N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.

BAUXITE.

Aluminum Co. of America, Pittsburgh, Pa.
J. E. Dockendorff & Co., Inc., 20 Broad St., N. Y.
Chas. Gitlan, 35 Nassau St., N. Y.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
C. W. Leavitt & Co., 30 Church St., N. Y.
Mitsui & Co., Ltd., 65 Broadway, N. Y.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

BEARINGS (Car Journal and Mill).

The Ajax Metal Co., Philadelphia, Pa.
Hoyt Metal Co., 111 Broadway, N. Y.
Keystone Bronze Co., Pittsburgh, Pa.
Magnus Co., Inc., Chicago, Ill.
Metallurgical & Chemical Corp., Matawan, N. J.
Michigan Smelting & Refining Co., Detroit, Mich.
More-Jones Brass & Metal Co., St. Louis, Mo.
Shoop Bronze Co., Tarentum, Pa.

BENZOL PLANTS.

Illinois Steel Co., Chicago, Ill.
Republic Iron & Steel Co., Youngstown, O.
Semet-Solvay Co., Detroit, Mich.
The Youngstown Sheet & Tube Co., Youngstown, O.

BESSEMER STEEL.

Bethlehem Steel Co., Bethlehem, Pa.
Cooper, Claypool & Co., Ltd., Pittsburgh, Pa.
Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
Illinois Steel Co., Chicago, Ill.

BESSEMER STEEL. (Ctd.)

Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 Republic Iron & Steel Co., Youngstown, O.
 Wheeling Steel Corp., Wheeling, W. Va.
 The Youngstown Sheet & Tube Co., Youngstown, O.

BILLETS (Forging).

Allegheny Steel Co., Brackenridge, Pa.
 Bethlehem Steel Co., Bethlehem, Pa.
 Carnegie Steel Co., Pittsburgh, Pa.
 Cooper, Claypool & Co., Ltd., Pittsburgh, Pa.
 Illinois Steel Co., Chicago, Ill.
 Inland Steel Co., Chicago, Ill.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 Republic Iron & Steel Co., Youngstown, O.
 Wheeling Steel Corp., Wheeling, W. Va.
 Alan Wood Iron & Steel Co., Philadelphia, Pa.
 The Youngstown Sheet & Tube Co., Youngstown, O.

BILLETS (Steel).

Allegheny Steel Co., Brackenridge, Pa.
 Bethlehem Steel Co., Bethlehem, Pa.
 Carnegie Steel Co., Pittsburgh, Pa.
 Cooper, Claypool & Co., Ltd., Pittsburgh, Pa.
 Hickman Williams & Co., Inc., Pittsburgh, Pa.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Illinois Steel Co., Chicago, Ill.
 Inland Steel Co., Chicago, Ill.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 Otis Steel Co., P. O. Box 694, Cleveland, O.
 Pittsburgh Steel Co., Pittsburgh, Pa.
 Republic Iron & Steel Co., Youngstown, O.
 Richard Thomas & Co., Ltd.
 Bush House, Aldwych, London, W. C. 2, England.
 Walter-Wallingford & Co., Cincinnati, O.
 Wheeling Steel Corp., Wheeling, W. Va.
 Alan Wood Iron & Steel Co., Philadelphia, Pa.
 The Youngstown Sheet & Tube Co., Youngstown, O.

BISMUTH.

American Smelt. & Refg. Co., 120 Broadway, N. Y.
 Associated Metals & Minerals Corp.
 100 East 42nd St., N. Y.
 S. Birkenstein & Sons, Inc.,
 1054 W. North Ave., Chicago, Ill.
 China Commercial Co., Ltd., 40 Rector St., N. Y.
 The Cincinnati Railway Supply Co.,
 13 East 2nd St., Cincinnati, O.

BISMUTH. (Ctd.)

Federated Metals Corp., 233 Broadway, N. Y.
 Hendricks Bros., Inc., 49 Cliff St., N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 Mitsui & Co., Ltd., 65 Broadway, N. Y.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 Niagara Falls Smelt. & Reg. Corp., Buffalo, N. Y.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 Wah Chang Trading Corp., Woolworth Bldg., N. Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.

BLOOMS, CHARCOAL IRON.

Bethlehem Steel Co., Bethlehem, Pa.
 The Reeves Mfg. Co., Dover, O.

BOILER TUBES.

Allegheny Steel Co., Brackenridge, Pa.
 The American Brass Co., Waterbury, Conn.
 Bethlehem Steel Co., Bethlehem, Pa.
 Federated Metals Corp., 233 Broadway, N. Y.
 National Tube Co., Pittsburgh, Pa.
 Tyler Tube & Pipe Co., Washington, Pa.
 The Youngstown Sheet & Tube Co., Youngstown, O.

BOLTS AND NUTS.

Aluminum Co. of America, Pittsburgh, Pa.
 Bethlehem Steel Co., Bethlehem, Pa.
 Illinois Steel Co., Chicago, Ill.
 Inland Steel Co., Chicago, Ill.
 Republic Iron & Steel Co., Youngstown, O.
 Richards Co., Inc., Battery Wharf, Boston, Mass.

BORONIC ALLOYS.

American Boron Products Co., Reading, Pa.

BRASS (Sheets, Rods, Wire, etc.)

The American Brass Co., Waterbury, Conn.
 T. E. Conklin Brass & Copper Co.,
 54 Lafayette St., N. Y.
 Dallas Brass & Copper Co., Chicago, Ill.
 Detroit Cop. & Brass Rolling Mills, Detroit, Mich.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 Pope Trading Corp., 90 West St., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 The Riverside Metal Co., Riverside, N. J.
 Scovill Mfg. Co., Waterbury, Conn.

BRASS (Sheets, Rods, Wire, etc.) (Ctd.)

The Seymour Mfg. Co., Seymour, Conn.
Standard Underground Cable Co., Pittsburgh, Pa.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.
Western Cartridge Co., East Alton, Ill.

BRIDGE BUILDERS.

American Bridge Co., 71 Broadway, N. Y.
Bethlehem Steel Co., Bethlehem, Pa.

BRITANNIA METAL.

Federated Metals Corp., 233 Broadway, N. Y.
Gardiner Metal Co., 1356-64 W. Lake St., Chicago.
Girard Smelting & Refining Co., Philadelphia, Pa.
Hoyt Metal Co., 111 Broadway, N. Y.
Metallurgical & Chemical Corp., Matawan, N. J.
Metals Refining Co., P. O. Box 138, Hammond, Ind.
The Nassau Smelting & Refining Works, Ltd.,
603 West 29th St., N. Y.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
Pope Trading Corp., 90 West St., N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Tottenville Copper Co., Inc., Tottenville, N. Y.

BRONZE (Sheets, wire, rods, tubes, rolls, etc.)

The American Brass Co., Waterbury, Conn.
T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.
Detroit Cop. & Brass Rolling Mills, Detroit, Mich.
Richards Co., Inc., Battery Wharf, Boston, Mass.
Riverside Metal Co., Riverside, N. J.
Scovill Manufacturing Co., Waterbury, Conn.
The Seymour Manufacturing Co., Seymour, Conn.
The Shoop Bronze Co., Tarentum, Pa.
Standard Underground Cable Co., Pittsburgh, Pa.
Western Cartridge Co., East Alton, Ill.

CADMIUM.

American Smelt. & Refg. Co., 120 Broadway, N. Y.
Associated Metals & Minerals Corp.,
100 East 42nd St., N. Y.
S. Birkenstein & Sons, Inc.,
1054 W. North Ave., Chicago, Ill.
Federated Metals Corp., 233 Broadway, N. Y.
The Grasselli Chemical Co., Cleveland, O.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
The New Jersey Zinc Co., 160 Front St., N. Y.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
Pope Trading Corp., 90 West St., N. Y.

CADMIUM. (Ctd.)

Richards Co., Inc., Battery Wharf, Boston, Mass.
Societe Generale des Minerais, 31, Rue du Marais,
Brussels, Belgium.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.
C. S. Trench & Co., 11 Cliff St., N. Y.
United Metals Selling Co., 25 Broadway, N. Y.
U. S. Smelt., Refin. & Mining Co., 120 B'way, N. Y.

CALCIUM METAL.

Watson, Geach & Co., Inc., 56 Pine St., N. Y.

CANS AND METAL CONTAINERS.

Aluminum Co. of America, Pittsburgh, Pa.
American Can Co., 120 Broadway, N. Y.
Continental Can Co., Syracuse, N. Y.
Hazel Atlas Glass Co., 53 Park Place, N. Y.
Wheeling Steel Corp., Wheeling, W. Va.

CARS.

Bethlehem Steel Co., Bethlehem, Pa.

CAR FLOATS.

American Bridge Co., 71 Broadway, N. Y.

CASTINGS (Aluminum, Brass and Bronze).

The Ajax Metal Co., Philadelphia, Pa.
Aluminum Co. of America, Pittsburgh, Pa.
Bethlehem Steel Co., Bethlehem, Pa.
A. W. Cadman Mfg. Co., Pittsburgh, Pa.
Federated Metals Corp., 233 Broadway, N. Y.
Keystone Bronze Co., Pittsburgh, Pa.
Magnus Co., Inc., Chicago, Ill.
Michigan Smelt. & Refg. Co., Detroit, Mich.
More-Jones Brass & Metal Co., St. Louis, Mo.
Scovill Mfg. Co., Waterbury, Conn.
Shoop Bronze Co., Tarentum, Pa.

CASTINGS (Blast furnace).

Bethlehem Steel Co., Bethlehem, Pa.
Keystone Bronze Co., Pittsburgh, Pa.

CASTINGS (Die Castings).

Aluminum Co. of America, Pittsburgh, Pa.
Hoyt Metal Co., 111 Broadway, N. Y.
Keystone Bronze Co., Pittsburgh, Pa.
Michigan Smelt. & Refg. Co., Detroit, Mich.

CASTINGS (Gun Metal).

The Ajax Metal Co., Philadelphia, Pa.
Bethlehem Steel Co., Bethlehem, Pa.
More-Jones Brass & Metal Co., St. Louis, Mo.
Shoop Bronze Co., Tarentum, Pa.

CASTINGS (Iron).

Allegheny Steel Co., Brackenridge, Pa.
American Bridge Co., 71 Broadway, N. Y.
Bethlehem Steel Co., Bethlehem, Pa.
George J. Hagan Co., Pittsburgh, Pa.
Richard Thomas & Co., Ltd., Bush House,
Aldwych, London W. C. 2, England.
U. S. Cast Iron Pipe & Fdy. Co., Burlington, N. J.
The Youngstown Sheet & Tube Co., Youngstown, O.

CASTINGS (Monel and Nickel).

International Nickel Co., 67 Wall St., N. Y.

CASTINGS (Steel).

Allegheny Steel Co., Brackenridge, Pa.
American Bridge Co., 71 Broadway, N. Y.
American Steel Foundries, Chicago, Ill.
Bethlehem Steel Co., Bethlehem, Pa.
Otis Steel Co., P.O. Box 694, Cleveland, O.
Richard Thomas & Co., Ltd., Bush House,
Aldwych, London W. C. 2, England.

CHAIN.

Dallas Brass & Copper Co., Chicago, Ill.
The Shoop Bronze Co., Tarentum, Pa. (Bronze).

CHARCOAL IRON BOILER TUBES.

Allegheny Steel Co., Brackenridge, Pa.
Bethlehem Steel Co., Bethlehem, Pa.
Tyler Tube & Pipe Co., Washington, Pa.
Wah Chang Trading Corp., Woolworth Bldg., N. Y.

CHEMICALS (Industrial).

The Grasselli Chemical Co., Cleveland, O.
Nichols Copper Co., 25 Broad St., N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
Semet-Solvay Co., Detroit, Mich.
Societe Generale des Minerais, 31 Rue du Marais,
Brussels, Belgium.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.

CHEMISTS.

C. L. Constant Co., 220 Broadway, N. Y.
Ledoux & Co., 99 John St., N. Y.
N. Y. Testing Laboratories, 80 Wash. St., N. Y.

CHROME BRICK.

Harbison-Walker Refractories Co., Pittsburgh, Pa.

CHROME ORE.

A. C. Daft, Oliver Bldg., Pittsburgh, Pa.
Debevoise-Anderson Co., 114 Liberty St., N. Y.
Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
Chas. Gitlan, 35 Nassau St., N. Y.
Harbison-Walker Refractories Co., Pittsburgh, Pa.

CHROME ORE. (Ctd.)

H. Hollesen, Inc., 17 Battery Place, N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N.Y.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 Metal & Thermit Corp., 120 Broadway, N. Y.
 Mitsui & Co., Ltd., 65 Broadway, N. Y.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Rogers, Brown & Crocker Bros., Inc.,
 21 East 40th St., N. Y.
 Frank Samuel & Co., Philadelphia, Pa.
 Arthur Seligman, 165 Broadway, N. Y.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 United States Nickel Co., New Brunswick, N. J.
 Walter-Wallingford & Co., Cincinnati, O.

CHROMIUM.

Everitt & Co., Ltd., 40 Chapel St. Liverpool, Eng.
 Metal & Thermit Corp., 120 Broadway, N. Y.
 Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Frank Saamuel & Co., Philadelphia, Pa.
 Walter-Wallingford & Co., Cincinnati, O.

COAL.

The American Metal Co., Ltd., 61 Broadway, N. Y.
 Bethlehem Steel Co., Bethlehem, Pa.
 The Cleveland-Cliffs Iron Co., Cleveland, O.
 Cooper, Claypool & Co., Ltd., Pittsburgh, Pa.
 Debevoise-Anderson Co., 114 Liberty St., N. Y.
 The M. A. Hanna Co., Cleveland, O.
 Hillman Coal & Coke Co., Pittsburgh, Pa.
 Jamison Coal & Coke Co., Greensburg, Pa.
 McKeefrey & Co., Leetonia, O.
 Park & Williams, Inc., Philadelphia, Pa.
 Penna. Coal & Coke Corp., 17 Battery Pl., N. Y.
 Pilling & Co., Philadelphia, Pa.
 Republic Iron & Steel Co., Youngstown, O.
 Semet-Solvay Co., Detroit, Mich.
 W. P. Snyder & Co., Pittsburgh, Pa.
 Societe Generale des Minerais, 31 Rue du Marais,
 Brussels, Belgium.
 Richard Thomas & Co., Ltd., Bush House,
 Aldwych, London, W. C. 2, England.
 Waldo, Egbert & McClain, Inc., Buffalo, N. Y.
 Washington Coal & Coke Co., Pittsburgh, Pa.

COBALT.

A. C. Daft, Pittsburgh, Pa.
Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
Metal & Thermit Corp., 120 Broadway, N. Y.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.
Societe Generale des Minerais, 31 Rue du Marais,
Brussels, Belgium.

COKE.

Bethlehem Steel Co., Bethlehem, Pa.
The Cleveland-Cliffs Iron Co., Cleveland, O.
Cooper, Claypool & Co., Ltd., Pittsburgh, Pa.
Debevoise-Anderson Co., 114 Liberty St., N. Y.
Hickman, Williams & Co., Inc., Cincinnati, O.
Hillman Coal & Coke Co., Pittsburgh, Pa.
Jamison Coal & Coke Co., Greensburg, Pa.
McKeefrey & Co., Leetonia, O.
Park & Williams, Inc., Philadelphia, Pa.
Pickands, Brown & Co., Chicago, Ill.
Pilling & Co., Philadelphia, Pa.
Republic Iron & Steel Co., Youngstown, O.
Rogers Brown & Crocker Bros., Inc.,
21 East 40th St., N. Y.
Semet-Solvay Co., Detroit, Mich.
W. P. Snyder & Co., Pittsburgh, Pa.
Richard Thomas & Co., Ltd., Bush House,
Aldwych, London, W. C. 2, England.
Waldo Egbert & McClain, Inc., Buffalo, N. Y.
Walter-Wallingford & Co., Cincinnati, O.
Washington Coal & Coke Co., Pittsburgh, Pa.

CONCRETE REINFORCEMENT FABRIC.

Pittsburgh Steel Co., Pittsburgh, Pa.

CONDENSER TUBING.

The American Brass Co., Waterbury, Conn.
T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.
Dallas Brass & Copper Co., Chicago, Ill.
Detroit Cop. & Brass Rolling Mills, Detroit, Mich.
H. Kramer & Co., Chicago, Ill.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Pope Trading Corp., 90 West St. N. Y.
Scovill Mfg. Co., Waterbury, Conn.

COPPER ALLOYS.

American Boron Products Co., Reading, Pa.

COPPER (Ingots, Wire Bars, Slabs, etc.)

- Amer. Insulated Wire & Cable Co., Chicago, Ill.
 The American Metal Co., Ltd., 61 Broadway, N. Y.
 American Smelt. & Refg. Co., 120 Broadway, N.Y.
 Associated Metals & Minerals Corporation,
 100 East 42nd St., N. Y.
 Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
 H. B. Barnard & Sons, 419 Leadenhall St.,
 London, E. C. 3, England.
 S. Birkenstein & Sons, Inc.,
 1054 W. North Ave., Chicago, Ill.
 Brenner-Mervis Co., Chicago, Ill.
 Chile Exploration Co., 25 Broadway, N. Y.
 The Cincinnati Railway Supply Co.,
 13 E. 2nd St., Cincinnati, O.
 T. E. Conklin Brass & Copper Co.,
 54 Lafayette St., N. Y.
 The Consolidated Min. & Smelt. Co. of Canada,
 Ltd., Drummond Bldg., Montreal, Canada.
 Copper Range Co., 52 Broadway, N. Y.
 Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
 Federated Metals Corp., 233 Broadway, N. Y.
 Furukawa & Co., Ltd., Tokyo, Japan.
 Gardiner Metal Co. Chicago, Ill.
 Henry Gardner, Guiterman & Co., Inc.,
 120 Broadway, N. Y.
 General Copper Co., 543 W. 25th St., N. Y.
 General Metals Refining Co., St. Louis, Mo.
 Girard Smelt. & Refg. Co., Philadelphia, Pa.
 Chas. Gitlan, 35 Nassau St., N. Y.
 Guggenheim Bros., 120 Broadway, N. Y.
 Benj. Harris & Co., Chicago, Ill.
 Hendricks Bros., Inc., 49 Cliff St., N. Y.
 H. Hollesen, Inc., 17 Battery Place, N.Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 Keystone Bronze Co., Pittsburgh, Pa.
 The Koblitz-Kohn Co., Cleveland, O.
 H. Kramer & Co., Chicago, Ill.
 Adolph Lewisohn & Sons, Inc., 61 Broadway, N.Y.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 Metal Traders, Inc., 67 Wall St., N. Y.
 Metal Sales Corp., 25 Broadway, N. Y.
 Michigan Smelt. & Refg. Co., Detroit, Mich.
 A. W. Millhauser Corp., 25 Broadway, N. Y.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 E. L. Murphy & Co., Tribune Tower, Chicago, Ill.
 The Nassau Smelting & Refining Works, Ltd.,
 603 West 29th St., N. Y.

COPPER (Ingots, Wire Bars, Slabs, etc.) (Ctd.)

Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
 Nichols Copper Co., 25 Broad St., N. Y.
 Phelps Dodge Corp., 99 John St., N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Henry Shambroom & Co., Inc., 291 B'way, N. Y.
 Suzuki & Co., 220 Broadway, N. Y.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 Tottenville Copper Co., Inc., Tottenville, N. Y.
 C. S. Trench & Co., 11 Cliff St., N. Y.
 Nathan Trotter & Co., Philadelphia, Pa.
 United Metals Selling Co., 25 Broadway, N. Y.
 U. S. Smelt., Refg. & Mining Co., 120 B'way, N. Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.
 L. P. Yandell, 15 William St., N. Y.

COPPER (Sheets, wire, rods, tubes, rivets, etc.)

The American Brass Co., Waterbury, Conn.
 Amer. Insulated Wire & Cable Co., Chicago, Ill.
 American Smelt. & Refg. Co., 120 Broadway, N. Y.
 Brenner-Mervis Co., Chicago, Ill.
 T. E. Conklin Brass & Copper Co.,
 54 Lafayette St., N. Y.
 Dallas Brass & Copper Co., Chicago, Ill.
 Detroit Cop. & Brass Rolling Mills, Detroit, Mich.
 Hendricks Bros., Inc., 49 Cliff St., N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 Pope Trading Corp., 90 West St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Scovill Mfg. Co., Waterbury Conn.
 Standard Underground Cable Co., Pittsburgh, Pa.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 Tottenville Copper Co., Inc., Tottenville, N. Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.

CORRUGATED & FORMED ROOFINGS (Steel).

American Sheet & Tin Plate Co., Pittsburgh, Pa.
 The American Zinc Products Co., Greencastle, Ind.
 Apollo Steel Co., Apollo, Pa.
 Bethlehem Steel Co., Bethlehem, Pa.
 Follansbee Brothers Co., Pittsburgh, Pa.
 Inland Steel Co., Chicago, Ill.
 National Enamel. & Stamp. Co., Granite City, Ill.
 Republic Iron & Steel Co., Youngstown, O.

CORRUGATED & FORMED R'FGS (Steel) (Ctd.)

Richards Co., Inc., Battery Wharf, Boston, Mass.
The Superior Sheet Steel Co., Canton, O.
The Trumbull Steel Co., Warren, O.
Wheeling Steel Corp., Wheeling, W. Va.

COTTON TIES.

Bethlehem Steel Co., Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
Pittsburgh Steel Co., Pittsburgh, Pa.

CROSS TIES (Steel).

Bethlehem Steel Co., Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
Illinois Steel Co., Chicago, Ill.
The M. N. Landay Co., Pittsburgh, Pa.

CRUCIBLES.

Richards Co., Inc., Battery Wharf, Boston, Mass.

CUPREOUS PYRITES.

Debevoise-Anderson Co., 114 Liberty St., N. Y.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Robert C. Lea & Co., Philadelphia, Pa.
C. W. Leavitt & Co., 30 Church St., N. Y.
Societe Generale des Minerais, 31 Rue du Marais,
Brussels, Belgium.

UPRO NICKEL.

Federated Metals Corp., 233 Broadway, N. Y.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
The Koblitz-Kohn Co., Cleveland, O.
Metal & Thermit Corp., 120 Broadway, N. Y.
The Nassau Smelting & Refining Works, Ltd.,
603 West 29th St., N. Y.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Scovill Mfg. Co., Waterbury, Conn.
The Seymour Mfg. Co., Seymour, Conn.
Tottenville Copper Co., Inc., Tottenville, N. Y.
Western Cartridge Co., East Alton, Ill.

DRAWING STEEL (Strip).

Bethlehem Steel Co., Bethlehem, Pa.
Illinois Steel Co., Chicago, Ill.
Sharon Steel Hoop Co., Sharon, Pa.
The Trumbull Steel Co., Warren, O.
West Leechburg Steel Co., Pittsburgh, Pa.

DROP FORGINGS (Steel and Brass).

Bethlehem Steel Co., Bethlehem, Pa.
Scovill Mfg. Co., Waterbury, Conn.

DURALUMIN (Sheets, Forgings, etc.)

Aluminum Co. of America, Pittsburgh, Pa.

EAVE TROUGH AND CONDUCTOR PIPE.

American Zinc Products Co., Greencastle, Ind.
T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.
Dallas Brass & Copper Co., Chicago, Ill.
Follansbee Brothers Co., Pittsburgh, Pa.
The Reeves Mfg. Co., Dover, O.
Richards Co., Inc., Battery Wharf, Boston, Mass.
Wheeling Steel Corp., Wheeling, W. Va.

ENGINEERS (Contracting).

George J. Hagan Co., Pittsburgh, Pa.
P. & W. MacLellan, Ltd., Glasgow, Scotland.

EXTRUDED METAL (Brass and Bronze).

The American Brass Co., Waterbury, Conn.
Dallas Brass & Copper Co., Chicago, Ill.
Detroit Cop. & Brass Rolling Mills, Detroit, Mich.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Scovill Mfg. Co., Waterbury, Conn.
Standard Underground Cable Co., Pittsburgh, Pa.

EYELETS.

The American Brass Co., Waterbury, Conn.
Scovill Mfg. Co., Waterbury, Conn.

FERBERITE.

Watson, Geach & Co., Inc., 56 Pine St., N. Y.

FERRIC ALLOYS.

Bethlehem Steel Co., Bethlehem, Pa.
A. C. Daft, Pittsburgh, Pa.
Debevoise-Anderson Co., 114 Liberty St., N. Y.
Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
Hickman, Williams & Co., Chicago, Ill.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Keokuk Electro Metals Co., Keokuk, Iowa.
Robert C. Lea & Co., Philadelphia, Pa.
C. W. Leavitt & Co., 30 Church St., N. Y.
Metal & Thermit Corp., 120 Broadway, N. C.
Park & Williams Inc., Philadelphia, Pa.
Richards Co., Inc., Battery Wharf, Boston, Mass.
Rogers, Brown & Crocker Bros, Inc.,
21 East 40th St., N. Y.
Frank Samuel & Co., Philadelphia, Pa.
C. Tennant Son & Co. of New York,
19 West 44th St., N. Y.
Wah Chang Trading Corp., Woolworth Bldg., N. Y.
Walter-Wallingford & Co., Cincinnati, O.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

FERRO-CHROME.

A. C. Daft., Pittsburgh, Pa.
 Debevoise-Anderson Co., 114 Liberty St., N. Y.
 Everitt & Co., 40 Chapel St., Liverpool, Eng.
 Hickman, Williams & Co., Pittsburgh, Pa.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 Metal & Thermit Corp., 120 Broadway, N. Y.
 Niagara Falls Smelt. & Ref. Corp., Buffalo, N. Y.
 Park & Williams, Inc., Philadelphia, Pa.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Rogers, Brown & Crocker Bros., Inc.,
 21 East 40th St., N. Y.
 Frank Samuel & Co., Philadelphia, Pa.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 Walter-Wallingford & Co., Cincinnati, O.

FERRO-MANGANESE.

The American Metal Co., Ltd., 61 Broadway, N.Y.
 Bethlehem Steel Co., Bethlehem, Pa.
 Carnegie Steel Co., Pittsburgh, Pa.
 A. C. Daft, Pittsburgh, Pa.
 Debevoise-Anderson Co., 114 Liberty St., N. Y.
 Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
 Federated Metals Corp., 233 Broadway, N. Y.
 Hickman, Williams & Co., Inc., Pittsburgh, Pa.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 Robert C. Lea & Co., Philadelphia, Pa.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 Mitsui & Co., Ltd., 65 Broadway, N. Y.
 Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
 Park & Williams, Inc., Philadelphia, Pa.
 Pilling & Co., Philadelphia, Pa.
 Pope Trading Corp., 90 West St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Rogers, Brown & Crocker Bros., Inc.,
 21 East 40th St., N. Y.
 Frank Samuel & Co., Philadelphia, Pa.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 Waldo, Egbert & McClain, Inc., Buffalo, N. Y.
 Walter-Wallingford & Co., Cincinnati, O.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.

FERRO-PHOSPHORUS.

Debevoise-Anderson Co., 114 Liberty St., N. Y.
 Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
 Hickman, Williams & Co., Pittsburgh, Pa.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 Park & Williams, Inc., Philadelphia, Pa.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Rogers, Brown & Crocker Bros., Inc.,
 21 East 40th St., N. Y.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 Frank Samuel & Co., Philadelphia, Pa.
 Walter-Wallingford & Co., Cincinnati, O.

FERRO-SILICON.

Bethlehem Steel Co., Bethlehem, Pa.
 The Cleveland-Cliffs Iron Co., Cleveland, O.
 Debevoise-Anderson Co., 114 Liberty St., N. Y.
 Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
 Hickman, Williams & Co., Inc., Pittsburgh, Pa.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 Keokuk Electro-Metals Co., Keokuk, Iowa.
 Robert C. Lea & Co., Philadelphia, Pa.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
 Park & Williams, Inc., Philadelphia, Pa.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Rogers, Brown & Crocker Bros., Inc.,
 21 East 40th St., N. Y.
 Frank Samuel & Co., Philadelphia, Pa.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 Waldo, Egbert & McClain, Inc., Buffalo, N. Y.
 Walter-Wallingford & Co., Cincinnati, O.

FERRO-TUNGSTEN.

A. C. Daft, Pittsburgh, Pa.
 Debevoise-Anderson Co., 114 Liberty St., N. Y.
 Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 Metal & Thermit Corp., 120 Broadway, N. Y.
 Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
 Park & Williams, Inc., Philadelphia, Pa.

FERRO-TUNGSTEN. (Ctd.)

Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Frank Samuel & Co., Philadelphia, Pa.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.

FIRE BRICK.

Ashland Fire Brick Co., Ashland, Ky.
 Harbison-Walker Refractories Co., Pittsburgh, Pa.
 The Kier Fire Brick Co., Pittsburgh, Pa.
 United States Refractories Corp., Mount Union, Pa.

FIRE CLAY.

Ashland Fire Brick Co., Ashland, Ky.
 Harbison-Walker Refractories Co., Pittsburgh, Pa.
 United States Refractories Corp., Mount Union, Pa.

FLOOR PLATES.

Bethlehem Steel Co., Bethlehem, Pa.
 Carnegie Steel Co., Pittsburgh, Pa.
 Richard Thomas & Co., Ltd.,
 Bush House, Aldwych, London, W. C. 2, Eng.
 Wheeling Steel Corp., Wheeling, W. Va.

FLUOR SPAR.

Aluminum Co. of America, Pittsburgh, Pa.
 The Consolidated Min. & Smelt. Co. of Canada,
 Ltd., Montreal, Canada.
 Francis A. Cundill & Co., 63 Wall St., N. Y.
 A. C. Daft, Pittsburgh, Pa.
 Debevoise-Anderson Co., 114 Liberty St., N. Y.
 Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
 Chas. Gitlan, 35 Nassau St., N. Y.
 Hickman, Williams & Co., Inc., Cincinnati, O.
 Hillside Fluor Spar Mines, Chicago, Ill.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 Park & Williams, Inc., Philadelphia, Pa.
 Rogers, Brown & Crocker Bros., Inc.,
 21 East 40th St., N. Y.
 Frank Samuel & Co., Philadelphia, Pa.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 Walter-Wallingford & Co., Cincinnati, O.
 Watson, Geach & Co., 56 Pine St., N. Y.

FLUX (Soldering and Tinning).

Aluminum Co. of America, Pittsburgh, Pa.
 T. E. Conklin Brass & Copper Co.,
 54 Lafayette St., N. Y.
 The Grasselli Chemical Co., Cleveland, O.

FLUXES (Foundry).

The Ajax Metal Co., Philadelphia, Pa.
Debevoise-Anderson Co., 114 Liberty St. N. Y.
Hillside Fluor Spar Mines, Chicago, Ill.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.

FORGINGS (Iron and Steel).

American Bridge Co., 71 Broadway, N. Y.
Bethlehem Steel Co., Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.

FOUNDRY SUPPLIES.

Richards Co., Inc., Battery Wharf, Boston, Mass.
C. Tennant Sons & Co. of New York,
19 West 44th St., New York.

**FURNACES (Annealing, Heat Treating Forgings,
Boiler, etc.)**

George J. Hagan Co., Pittsburgh, Pa.

FURNACES (Electric).

The Ajax Metal Co., Philadelphia, Pa.
American Bridge Co. 71 Broadway, N. Y.
George J. Hagan Co., Pittsburgh, Pa.

FURNACES (Metallurgical).

George J. Hagan Co., Pittsburgh, Pa.

FUZE METAL.

Hazel Atlas Glass Co., 53 Park Place, N. Y.
The Platt Bros. & Co., Waterbury, Conn.

GAS PRODUCERS.

George J. Hagan Co., Pittsburgh, Pa.

GOLD ALLOYS.

American Boron Products Co., Reading, Pa.

GOLD BARS.

American Smelt. & Refg. Co., 120 Broadway, N.Y.
Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
The Consolidated Min. & Smelt. Co. of Canada,
Ltd., Montreal, Canada.
Kastenhuber & Lehrfeld, 24 John St., N. Y.
Schwitter, Clover & Starkweather, Newark, N. J.

GRAPHITE.

J. E. Dockendorff & Co., Inc., 20 Broad St., N. Y.
Int'l Ores & Metals Sell. Corp., 25 Broad St., N. Y.
Mitsui & Co., Ltd., 65 Broadway, N. Y.
Societe Generale des Minerais, 31 Rue du Marais,
Brussels, Belgium.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

HOOPS (Steel).

Carnegie Steel Co., Pittsburgh, Pa.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 Pittsburgh, Steel Co., Pittsburgh, Pa.
 Sharon Steel Hoop Co., Sharon, Pa.
 The Trumbull Steel Co., Warren, O.
 West Leechburg Steel Co., Pittsburgh, Pa.
 The Youngstown Sheet & Tube Co., Youngstown, O

INGOT BRASS AND COMPOSITION.

The Ajax Metal Co., Philadelphia, Pa.
 Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
 Bethlehem Steel Co., Bethlehem, Pa.
 S. Birkenstein & Sons., Inc.,
 1054 W. North Ave., Chicago, Ill.
 Federated Metals Corp., 233 Broadway, N. Y.
 General Metals Refining Co., St. Louis, Mo.
 Girard Smelt. & Refg. Co., Philadelphia, Pa.
 Benj. Harris & Co., Chicago, Ill.
 Keystone Bronze Co., Pittsburgh, Pa.
 The Koblitz-Kohn Co., Cleveland, O.
 H. Kramer & Co., Chicago, Ill.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 Magnus Co., Inc., Chicago, Ill.
 Michigan Smelt. & Refg. Co., Detroit, Mich.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 The Nassau Smelt. & Refg. Wks., Ltd.,
 603 W. 29th St., N. Y.
 National Smelt. & Refg. Co., Detroit, Mich.
 Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Arthur Seligman, 165 Broadway, N. Y.
 Tottenville Copper Co., Inc., Tottenville, N. Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.

INGOTS (Steel)

Allegheny Steel Co, Brackenridge, Pa.
 Bethlehem Steel Co., Bethlehem, Pa.
 Carnegie Steel Co., Pittsburgh, Pa.
 Cooper, Claypool & Co., Ltd., Pittsburgh, Pa.
 Hickman, Williams & Co., Inc., Pittsburgh, Pa.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Inland Steel Co., Chicago, Ill.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 Otis Steel Co., P. O. Box 694, Cleveland, O.

INGOTS (Steel). (Ctd.)

Republic Iron & Steel Co., Youngstown, O.
 Richard Thomas & Co., Ltd., Buch House,
 Aldwych, London, W. C. 2, England.
 Walter-Wallingford & Co., Cincinnati, O.
 Alan Wood Iron & Steel Co., Philadelphia, Pa.
 The Youngstown Sheet & Tube Co., Youngstown, O.

INSPECTING ENGINEERS.

Ledoux & Co., 99 John St., N. Y.
 N. Y. Testing Laboratories, 74 Wash. St., N. Y.

IRIDIUM.

Kastenhuber & Lehrfeld, 24 John St., N. Y.
 R. & H. Platinum Works, 709 Sixth Ave., N. Y.
 Schwitter, Clover & Starkweather, Inc. Newark, N.J.
 C. Tennant Sons & Co. of New York,
 19 West 44th St., N. Y.
 Wah Chang Trading Corp., Woolworth Bldg., N.Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.
 The H. A. Wilson Co., Newark, N. J.

IRON ORE.

Bethlehem Steel Co., Bethlehem, Pa.
 The Cleveland-Cliffs Iron Co., Cleveland, O.
 Debevoise-Anderson Co., 114 Liberty St., N. Y.
 The M. A. Hanna Co., Cleveland, O.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Robert C. Lea & Co., Philadelphia, Pa.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 Park & Williams, Inc., Philadelphia, Pa.
 Pilling & Co., Philadelphia, Pa.
 Clement K. Quinn & Co., Duluth, Minn.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Republic Iron & Steel Co., Youngstown, O.
 Rogers, Brown & Crocker Bros., Inc.,
 21 East 40th St., N. Y.
 Frank Samuel & Co., Philadelphia, Pa.
 John A. Savage & Co., Duluth, Minn.
 W. P. Snyder & Co., Pittsburgh, Pa.
 Walter-Wallingford & Co., Cincinnati, O.
 The Youngstown Sheet & Tube Co., Youngstown, O.

LEAD (Foil).

Gardiner Metal Co., Chicago, Ill.
 The Koblitz-Kohn Co., Cleveland, O.
 H. Kramer & Co. Chicago, Ill.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.

LEAD (Pig).

The Ajax Metal Co., Philadelphia, Pa.
 American Smelt. & Refg. Co., 120 Broadway, N. Y.
 American Zinc, Lead & Smelt. Co., 120 B'way, N.Y.

LEAD (Pig). (Ctd.)

- Associated Metals & Minerals Corp.,
100 East 42nd St., N. Y.
Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
H. B. Barnard & Sons, 149 Leadenhall St.,
London, E. C. 3, England.
S. Birkenstein & Sons, Inc.,
1054 W. North Ave., Chicago, Ill.
The Cincinnati Railway Supply Co.,
13 East 2nd St., Cincinnati, O.
The Consolidated Min. & Smelt. Co. of Canada,
Ltd., Montreal, Canada.
Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
The Eagle-Picher Lead Co., Chicago, Ill.
Federated Metals Corp., 233 Broadway, N. Y.
Gardiner Metal Co., Chicago, Ill.
Henry Gardner, Guiterman & Co., Inc.
120 Broadway, N. Y.
General Metals Refining Co., St. Louis, Mo.
Girard Smelt. & Refg. Co., Philadelphia, Pa.
Benj. Harris & Co., Chicago, Ill.
Hendricks Bros., Inc., 49 Cliff St., N. Y.
H. Hollesen Inc., 17 Battery Place, N. Y.
Hoyt Metal Co., 111 Broadway, N. Y.
Keystone Bronze Co., Pittsburgh, Pa.
The Koblitz-Kohn Co., Cleveland, O.
H. Kramer & Co., Chicago, Ill.
Marks Lissberger & Son, Inc.,
281 Borden Ave., L. I. City, N. Y.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Metallurgical & Chemical Corp., Matawan, N. J.
Metal Traders, Inc., 67 Wall St., N. Y.
Metals Refining Co., P. O. Box 138, Hammond, Ind.
Michigan Smelt. & Refg. Co., Detroit, Mich.
A. W. Millhauser Corp., 25 Broadway, N. Y.
More-Jones Brass & Metal Co., St. Louis, Mo.
E. L. Murphy & Co., Tribune Tower, Chicago, Ill.
The Nassau Smelting & Refining Works, Ltd.,
603 West 29th St., N. Y.
National Smelt. & Refg. Co., Detroit, Mich.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
M. M. Pearlman & Co., Philadelphia, Pa.
Pennsylvania Smelting Co., Pittsburgh, Pa.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.
St. Joseph Lead Co., 250 Park Ave., N. Y.
Henry Shambroom & Co., Inc., 291 B'way, N. Y.

LEAD (Pig). (Ctd.)

Sino Java Handelsvereniging, Inc.,
40 Rector St., N. Y.
Societe Generale des Minerais, 31, Rue du Marais,
Brussels, Belgium.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.
Tottenville Copper Co., Inc., Tottenville, N. Y.
C. S. Trench & Co., 11 Cliff St., N. Y.
Nathan Trotter & Co., Philadelphia, Pa.
United Metals Selling Co., 25 Broadway, N. Y.
U. S. Smelt. Refg. & Min. Co., 120 Broadway, N.Y.
John Wahl Commission Co., St. Louis, Mo.
Watson, Geach & Co., 56 Pine St., N. Y.

LEAD (Pipe).

The Eagle-Picher Lead Co., Chicago, Ill.
Federated Metals Corp., 233 Broadway, N. Y.
Gardiner Metal Co., Chicago, Ill.
Hoyt Metal Co., 111 Broadway, N. Y.
Marks Lissberger & Son., Inc.,
281 Borden Ave., L. I. City, N. Y.
Michigan Smelt. & Refg. Co., Detroit, Mich.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.

LEAD (Sheets).

Gardiner Metal Co., Chicago, Ill.
Hoyt Metal Co., 111 Broadway, N. Y.
Marks Lissberger & Son., Inc.,
281 Borden Ave., L. I. City, N. Y.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.

LIMESTONE.

American Zinc, Lead & Smelting Co.,
331 Madison Ave., N. Y.
Bethlehem Steel Co., Bethlehem, Pa.
Debevoise-Anderson Co., 114 Liberty St., N. Y.
Robert C. Lea & Co., Philadelphia, Pa.
McKeefrey & Co., Leetonia, O.
The New Jersey Zinc Co., 160 Front St., N. Y.
Semet-Solvay Co., Detroit, Mich.

LITHARGE.

American Smelt. & Refg. Co., 120 Broadway, N. Y.
Metals Refining Co., P.O. Box 138, Hammond, Ind.

LITHOPONE.

American Zinc, Lead & Smelting Co.,
331 Madison Ave., N. Y.
The Grasselli Chemical Co., Cleveland, O.
The New Jersey Zinc Co., 160 Front St., N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.

LITHOPONE. (Ctd.)

Sino Java Handelsvereeniging, Inc.,
40 Rector St., N. Y.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.

MAGNESITE (Calcined).

Harbison-Walker Refractories Co., Pittsburgh, Pa.
Mitsui & Co., Ltd., 65 Broadway, N. Y.
Rogers, Brown & Crocker Bros., Inc.,
21 East 40th St., N. Y.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

MAGNESITE BRICK.

Harbison-Walker Refractories Co., Pittsburgh, Pa.

MAGNESIUM (Metal and Alloys).

Aluminum Co. of America, Pittsburgh, Pa.
C. W. Leavitt & Co., 30 Church St., N. Y.
Metal & Thermit Corp., 120 Broadway, N. Y.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

MAGNESIUM ALLOYS.

American Boron Products Co., Reading, Pa.

MANGANESE ALLOYS.

The Ajax Metal Co., Philadelphia, Pa.
American Boron Products Co., Reading, Pa.
S. Birkenstein & Sons, Inc.,
1054 W. North Ave., Chicago, Ill.
Debevoise-Anderson Co., 114 Liberty St., N. Y.
Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
Federated Metals Corp., 233 Broadway, N. Y.
C. W. Leavitt & Co., 30 Church St., N. Y.
Metal & Thermit Corp., 120 Broadway, N. Y.
More-Jones Brass & Metal Co., St. Louis, Mo.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Frank Samuel & Co., Philadelphia, Pa.
Walter-Wallingford & Co., Cincinnati, O.

MANGANESE BRONZE.

The Ajax Metal Co., Philadelphia, Pa.
S. Birkenstein & Sons, Inc.,
1054 W. North Ave., Chicago, Ill.
Federated Metals Corp., 233 Broadway, N. Y.

MANGANESE BRONZE. (Ctd.)

General Metals Refining Co., St. Louis, Mo.
The Koblitz-Kohn Co., Cleveland, O.
Michigan Smelt, & Refg. Co., Detroit, Mich.
More-Jones Brass & Metal Co., St. Louis, Mo.
Nassau Smelting & Refining Works, Ltd.,
603 West 29th St., N. Y.
Niagara Falls Smelt, & Refg. Corp., Buffalo, N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.
Tottenville Copper Refineries, Tottenville, N. Y.

MANGANESE DIOXIDE.

Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
Mitsui & Co., Ltd., 65 Broadway, N. Y.
Frank Samuel & Co., Philadelphia, Pa.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.

MANGANESE ORE.

The American Metal Co., Ltd., 61 Broadway, N.Y.
A. C. Daft, Pittsburgh, Pa.
Debevoise-Anderson Co., 114 Liberty St., N. Y.
Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
Chas. Gitlan, 35 Nassau St., N. Y.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Int'l Minerals & Metals Corp., 61 Broadway, N.Y.
C. W. Leavitt & Co., 30 Church St., N. Y.
Metal & Thermit Corp., 120 Broadway, N. Y.
Mitsui & Co., Ltd., 65 Broadway, N. Y.
Park & Williams, Inc., Philadelphia, Pa.
Clement K. Quinn & Co., Duluth, Minn.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Frank Samuel & Co., Philadelphia, Pa.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.
Wah Chang Trading Corp. Woolworth Bldg., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

MANGANIFEROUS ORES.

Debevoise-Anderson Co., 114 Liberty St., N. Y.
Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Park & Williams, Inc. Philadelphia, Pa.
Clement K. Quinn & Co., Duluth, Minn.
Frank Samuel & Co., Philadelphia, Pa.

METAL BROKERS.

Charles Hardy, Inc., 100 E. 42nd St., N. Y.
The Koblitz-Kohn Co., Cleveland, O.
C. W. Leavitt & Co., 30 Church St., N. Y.
E. L. Murphy & Co., Tribune Tower, Chicago, Ill.
Henry Shambroom & Co., 291 Broadway, N. Y.
C. S. Trench & Co., 11 Cliff St., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

METAL CEILINGS.

American Sheet & Tin Plate Co., Pittsburgh, Pa.
Wheeling Steel Corp., Wheeling, W. Va.

METAL LATH AND EXPANDED METAL.

American Sheet & Tin Plate Co., Pittsburgh, Pa.
Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Wheeling Steel Corp., Wheeling, W. Va.

METALLURGISTS.

C. L. Constant Co., 220 Broadway, N. Y.
Ledoux & Co., 99 John St., N. Y.
N. Y. Testing Laboratories, 80 Wash. St., N. Y.

METAL SHINGLES, ETC.

Aluminum Co. of America, Pittsburgh, Pa.
Anaconda Copper Mining Co., 25 Broadway, N. Y.
Detroit Cop. & Brass Rolling Mills, Detroit, Mich.
The Reeves Mfg. Co., Dover, O.
Wheeling Steel Corp., Wheeling, W. Va.

MOLYBDENUM.

The American Metal Co., Ltd., 61 Broadway, N. Y.
A. C. Daft, Oliver Bldg., Pittsburgh, Pa.
Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Metal & Thermit Corp., 120 Broadway, N. Y.
Mitsui & Co., Ltd., 65 Broadway, N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

MONEL METAL (Bars, Ingot, Sheets, Tubes, etc.)

H. Hollesen, Inc., 17 Battery Place, N. Y.
International Nickel Co., 67 Wall St., N. Y.
The Koblitz-Kohn Co., Cleveland, O.
The Nassau Smelting & Refining Works, Ltd.,
603 West 29th St., N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Tottenville Copper Co., Inc., Tottenville, N. Y.

MOULDS (Ingot).

Allegheny Steel Co., Brackenridge, Pa.
 Bethlehem Steel Co., Bethlehem, Pa.
 Richard Thomas & Co., Ltd., Bush House,
 Aldwych, London, W. C. 2, England.

MUNTZ METAL.

The American Brass Co., Waterbury, Conn.
 T. E. Conklin Brass & Copper Co.,
 54 Lafayette St., N. Y.
 Dallas Brass & Copper Co., Chicago, Ill.
 Detroit Cop. & Brass Rolling Mills, Detroit, Mich.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 P. & W. MacLellan, Ltd., Glasgow, Scotland
 The Nassau Smelting & Refining Works, Ltd.,
 603 W. 29th St., N. Y.
 Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Scovill Mfg. Co., Waterbury, Conn.
 Tottenville Copper Co., Inc., Tottenville, N. Y.

NAILS (Cement Coated).

Bethlehem Steel Co., Bethlehem, Pa.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 Pittsburgh Steel Co., Pittsburgh, Pa.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Wheeling Steel Corp., Wheeling, W. Va.
 The Youngstown Sheet & Tube Co., Youngstown, O.

NAILS (Cut).

American Zinc Products Co., Greencastle, Ind.
 T. E. Conklin Brass & Copper Co.,
 54 Lafayette St., N. Y.
 Page Steel & Wire Co., Bridgeport, Conn.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Wheeling Steel Corp., Wheeling, W. Va.

NAILS (Wire).

Bethlehem Steel Co., Bethlehem, Pa.
 T. E. Conklin Brass & Copper Co.,
 54 Lafayette St., N. Y.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 Page Steel & Wire Co., Bridgeport, Conn.
 Pittsburgh Steel Co., Pittsburgh, Pa.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Wheeling Steel Corp., Wheeling, W. Va.
 The Youngstown Sheet & Tube Co., Youngstown, O.

NICKEL ALLOYS.

American Boron Products Co., Reading, Pa.

NICKEL (Shot, Ingot and Electrolytic).

American Nickel Corp., Clearfield, Pa.

American Smelt. & Refg. Co., 120 Broadway, N. Y.
S. Birkenstein & Sons, Inc.,

1054 W. North Ave., Chicago, Ill.

The Cincinnati Railway Supply Co.,

13 East 2nd St., Cincinnati, O.

A. C. Daft, Pittsburgh, Pa.

Federated Metals Corp., 233 Broadway, N. Y.

Hendricks Bros. Inc., 49 Cliff St., N. Y.

Int'l Minerals & Metals Corp., 61 Broadway, N. Y.

International Nickel Co., 67 Wall St., N. Y.

The Koblitz-Kohn Co., Cleveland, O.

Metal & Thermit Corp., 120 Broadway, N. Y.

The Nassau Smelting & Refining Works, Ltd.,
603 West 29th St., N. Y.

Niagara Falls Smelt & Refg. Corp., Buffalo, N. Y.

Richards Co., Inc., Battery Wharf, Boston, Mass.

Arthur Seligman, 165 Broadway, N. Y.

Tottenville Copper Co., Inc., Tottenville, N. Y.

C. S. Trench & Co., 11 Cliff St., N. Y.

United States Nickel Co., New Brunswick, N. J.

NICKEL SALTS.

American Nickel Corp., Clearfield, Pa.

American Smelt. & Refg. Co., 120 Broadway, N. Y.

Detroit Cop. & Brass Rolling Mills, Detroit, Mich.

Nichols Copper Co., 25 Broad St. N. Y.

Philipp Bros., Inc., 233 Broadway, N. Y.

C. Tennant Sons & Co. of New York,

19 West 44th St., N. Y.

United Metals Selling Co., 25 Broadway, N. Y.

NICKEL SILVER (Ingots, Sheets, Wire, Rods, Tubes, etc.)

The American Brass Co., Waterbury, Conn.

T. E. Conklin Brass & Copper Co.,

54 Lafayette St., N. Y.

Dallas Brass & Copper Co., Chicago, Ill.

Federated Metals Corp., 233 Broadway, N. Y.

Philipp Bros., Inc., 233 Broadway, N. Y.

The Riverside Metal Co., Riverside, N. J.

Scovill Mfg. Co., Waterbury, Conn.

The Seymour Mfg. Co., Seymour, Conn.

Western Cartridge Co., East Alton, Ill.

OILWELL CASING AND TUBING.

Jones & Laughlin Steel Corp., Pittsburgh, Pa.
National Tube Co., Pittsburgh, Pa.
Republic Iron & Steel Co., Youngstown, O.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
Wheeling Steel Corp., Wheeling, W. Va.

ORE (Tantalum).

Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
C. Tennant Sons & Co. of New York,
19 West 44th St., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

ORES (Non-ferrous).

Debevoise-Anderson Co., 114 Liberty St., N. Y.
Henry Gardner, Guiterman & Co., Inc.,
120 Broadway, N. Y.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
C. W. Leavitt & Co., 30 Church St., N. Y.
Metal Traders, Inc., 67 Wall St., N. Y.
Mitsui & Co., Ltd., 65 Broadway, N. Y.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

OSMIUM.

J. Bishop & Co. Platinum Works, Malvern, Pa.
Kastenhuber & Lehrfeld, 24 John St., N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
R. & H. Platinum Works, 709 Sixth Ave., N. Y.
Schwitter, Clover & Starkweather, Inc. Newark, N.J.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

OSMIRIDIUM.

J. Bishop & Co. Platinum Works, Malvern, Pa.
Kastenhuber & Lehrfeld, 24 John St., N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
R. & H. Platinum Works, 709 Sixth Ave., N. Y.
Schwitter, Clover & Starkweather, Inc. Newark, N.J.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
Wah Chang Trading Corp., Woolworth Bldg., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.
The H. A. Wilson Co., Newark, N. J.

PALLADIUM.

American Smelt. & Refg. Co., 120 Broadway, N. Y.
J. Bishop & Co. Platinum Works, Malvern, Pa.
Kastenhuber & Lehrfeld, 24 John St., N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
R. & H. Platinum Works, 709 Sixth Ave., N. Y.

PALLADIUM, (Ctd.)

Schwitter, Clover & Starkweather, Inc. Newark, N.J.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
United Metals Selling Co., 25 Broadway, N. Y.
The H. A. Wilson Co., Newark, N. J.

PALM OIL.

C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
C. S. Trench & Co., 11 Cliff St., N. Y.

PERFORATED METAL.

The American Zinc Products Co. Greencastle, Ind.
Wheeling Steel Corp., Wheeling, W. Va.

PEROXIDE OF MANGANESE.

Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
Mitsui & Co., Ltd., 65 Broadway, N. Y.
Frank Samuel & Co., Philadelphia, Pa.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

PHOSPHOR ALLOYS.

The Ajax Metal Co., Philadelphia, Pa.
The American Brass Co., Waterbury, Conn.
Dallas Brass & Copper Co., Chicago, Ill.
Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
Federated Metals Corp., 233 Broadway, N. Y.
General Metals Refining Co., St. Louis, Mo.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Metal & Thermit Corp., 120 Broadway, N. Y.
National Smelt. & Refg. Co., Detroit, Mich.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.
Arthur Seligman, 165 Broadway, N. Y.
Tottenville Copper Co., Inc., Tottenville, N. Y.
C. S. Trench & Co., 11 Cliff St., N. Y.

**PHOSPHOR BRONZE (Sheets, Wire, Rods,
Tubes, Rolls, etc)**

The American Brass Co., Waterbury, Conn.
T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.
Detroit Cop. & Brass Rolling Mills, Detroit, Mich.
Richards Co., Inc., Battery Wharf, Boston, Mass.
Riverside Metal Co., Riverside, N. J.
Scovill Manufacturing Co., Waterbury, Conn.
The Seymour Manufacturing Co., Seymour, Conn.
Standard Underground Cable Co., Pittsburgh, Pa.
Western Cartridge Co., East Alton, Ill.

PHOSPHORUS.

Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
Philipp Bros., Inc., 233 Broadway, N. Y.

PIG IRON.

Bethlehem Steel Co., Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
The Cleveland-Cliffs Iron Co., Cleveland, O.
Cooper, Claypool & Co., Ltd., Pittsburgh, Pa.
Henry Gardner, Guiterman & Co., Inc.,
130 Broadway, N. Y.
The M. A. Hanna Co., Cleveland, O.
Hickman, Williams & Co., Inc., Pittsburgh, Pa.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Illinois Steel Co., Chicago, Ill.
Inland Steel Co., Chicago, Ill.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
Keokuk Electro-Metals Co., Keokuk, Iowa.
Robert C. Lea & Co., Philadelphia, Pa.
C. W. Leavitt & Co., 30 Church St., N. Y.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
McKeefrey & Co., Leetonia, O.
Mitsui & Co., Ltd., 65 Broadway, N. Y.
Otis Steel Co., P.O. Box 694, Cleveland, O.
Park & Williams, Inc., Philadelphia, Pa.
Pickands, Brown & Co., Chicago, Ill.
Pilling & Co., Philadelphia, Pa.
Pittsburgh Steel Co., Pittsburgh, Pa.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Republic Iron & Steel Co., Youngstown, O.
Rogers, Brown & Crocker Bros., Inc.,
21 East 40th St., N. Y.
Frank Samuel & Co., Philadelphia, Pa.
John A. Savage & Co., Cincinnati, O.
W. P. Snyder & Co., Pittsburgh, Pa.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
Richard Thomas & Co., Ltd., Bush House,
Aldwych, London, W. C. 2, England.
Waldo, Egbert & McClain, Inc., Buffalo, N. Y.
Walter-Wallingford & Co., Cincinnati, O.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.
Alan Wood Iron & Steel Co., Philadelphia, Pa.
The Youngstown Sheet & Tube Co., Youngstown, O.

PIPE (Brass and Copper).

The American Brass Co., Waterbury, Conn.
T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.

PIPE (Brass and Copper). (Ctd.)

Dallas Brass & Copper Co., Chicago, Ill.
Detroit Cop. & Brass Rolling Mills, Detroit, Mich.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
More-Jones Brass & Metal Co., St. Louis, Mo.
Richards Co., Inc., Battery Wharf, Boston, Mass.
Scovill Manufacturing Co., Waterbury, Conn.
Standard Underground Cable Co., Pittsburgh, Pa.
The Youngstown Sheet & Tube Co., Youngstown, O.

PIPE (Cast Iron.)

U. S. Cast Iron Pipe & Fdy. Co., Burlington, N. J.

PIPE (Nested Stove).

Wheeling Steel Corp., Wheeling, W. Va.

PIPE (Welded Steel).

Jones & Laughlin Steel Corp., Pittsburgh, Pa.
National Tube Co., Pittsburgh, Pa.
Republic Iron & Steel Co., Youngstown, O.
Wheeling Steel Corp., Wheeling, W. Va.
The Youngstown Sheet & Tube Co., Youngstown, O.

PIPE (Welded, Wrought Iron).

Wheeling Steel Corp., Wheeling, W. Va.
The Youngstown Sheet & Tube Co., Youngstown, O.

PIPE AND LINE PIPE (Iron and Steel).

Allegheny Steel Co., Brackenridge, Pa.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Republic Iron & Steel Co., Youngstown, O.
Wheeling Steel Corp., Wheeling, W. Va.
The Youngstown Sheet & Tube Co., Youngstown, O.

PIPE FITTINGS.

Aluminum Co. of America, Pittsburgh, Pa.
American Steel Foundries, Chicago, Ill.
T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.
U. S. Cast Iron Pipe & Fdy. Co., Burlington, N. J.
Wheeling Steel Corp., Wheeling, W. Va.
The Youngstown Sheet & Tube Co., Youngstown, O.

PLATES (Iron).

Allegheny Steel Co., Brackenridge, Pa.
Bethlehem Steel Co., Bethlehem, Pa.
Wheeling Steel Corp., Wheeling, W. Va.
The Youngstown Sheet & Tube Co., Youngstown, O.

PLATES (Steel).

Allegheny Steel Co., Brackenridge, Pa.
 Bethlehem Steel Co., Bethlehem, Pa.
 Carnegie Steel Co., Pittsburgh, Pa.
 The Falcon Steel Co., Niles, O.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Inland Steel Co., Chicago, Ill.
 Illinois Steel Co., Chicago, Ill.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 National Enam. & Stamp. Co., Granite City, Ill.
 Otis Steel Co., P.O. Box 694, Cleveland, O.
 Republic Iron & Steel Co., Youngstown, O.
 Wheeling Steel Corp., Wheeling, W. Va.
 Alan Wood Iron & Steel Co., Philadelphia, Pa.
 Worth Steel Co., Claymont, Dela.
 The Youngstown Sheet & Tube Co., Youngstown, O.

PLATINUM.

The American Metal Co., Ltd., 61 Broadway, N. Y.
 American Smelt. & Refg. Co., 120 Broadway, N. Y.
 Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
 J. Bishop & Co. Platinum Works, Malvern, Pa.
 Kastenhuber & Lehrfeld, 24 John St., N. Y.
 Adolph Lewisohn & Sons, Inc., 61 Broadway, N. Y.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 R. & H. Platinum Works, 709 Sixth Ave., N. Y.
 Schwitzer, Clover & Starkweather, Inc. Newark, N.J.
 C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
 United Metals Selling Co., 25 Broadway, N. Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.
 The H. A. Wilson Co., Newark, N. J.

PLATINUM PRODUCTS (Crucibles, Wire Cloth, Rivets, Solder, etc.)

J. Bishop & Co. Platinum Works, Malvern, Pa.
 R. & H. Platinum Works, 709 Sixth Ave., N. Y.

PRESSED STEEL WORK.

Allegheny Steel Co., Brackenridge, Pa.
 Bethlehem Steel Co., Bethlehem, Pa.

PYRITES (Iron).

Debevoise-Anderson Co., 114 Liberty St., N. Y.
 The Grasselli Chemical Co., Cleveland, O.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Robert C. Lea & Co., Philadelphia, Pa.
 C. W. Leavitt & Co., 30 Church St., N. Y.
 Societe Generale des Minearis, 31 Rue du Marais,
 Brussels, Belgium.

QUICKSILVER.

Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N. Y.

RAILS.

Bethlehem Steel Co., Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
Illinois Steel Co., Chicago, Ill.
Inland Steel Co., Chicago, Ill.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
The M. N. Landay Co., Pittsburgh, Pa.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.

RED LEAD.

The Eagle-Picher Lead Co., Chicago, Ill.
Metals Refining Co., P.O. Box 138, Hammond, Ind.

REFRACTORIES.

Ashland Fire Brick Co., Ashland, Ky.
Harbison-Walker Refractories Co., Pittsburgh, Pa.
Frank Samuel & Co., Philadelphia, Pa.
United Refractories Corp., Mount Union, Pa.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

RHODIUM.

I. Bishop & Co. Platinum Works, Malvern, Pa.
Kastenhuber & Lehrfeld, 24 John St., N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
R. & H. Platinum Works, 709 Sixth Ave., N. Y.
Schwitter, Clover & Starkweather, Inc. Newark N.J.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N. Y.
The H. A. Wilson Co., Newark, N. J.

RIVETS.

Aluminum Co. of America, Pittsburgh, Pa.
The American Brass Co., Waterbury, Conn.
Bethlehem Steel Co., Bethlehem, Pa.
T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.
Inland Steel Co., Chicago, Ill.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
R. & H. Platinum Works, 709 Sixth Ave., N. Y.

RODS (Iron).

Bethlehem Steel Co., Bethlehem, Pa.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Page Steel & Wire Co., Bridgeport, Conn.
Wheeling Steel Corp., Wheeling, W. Va.

RODS (Steel).

Bethlehem Steel Co., Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Illinois Steel Co., Chicago, Ill.
Inland Steel Co., Chicago, Ill.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Page Steel & Wire Co., Bridgeport, Conn.
Pittsburgh Steel Co., Pittsburgh, Pa.
Wheeling Steel Corp., Wheeling, W. Va.
The Youngstown Sheet & Tube Co., Youngstown, O

RUTHENIUM.

J. Bishop & Co. Platinum Works, Malvern, Pa.
Kastenhuber & Lehrfeld, 24 John St., N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
R. & H. Platinum Works, 709 Sixth Ave., N. Y.
Schwitter, Clover & Starkweather, Inc. Newark, N.J.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
The H. A. Wilson Co., Newark, N. J.

SAL AMMONIAC.

The Grasselli Chemical Co., Cleveland, O.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.

SALT CAKE.

The Grasselli Chemical Co., Cleveland, O.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
The New Jersey Zinc Co., 160 Front St., N. Y.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.

SCHEELITE.

Debevoise-Anderson Co., 114 Liberty St., N. Y.
H. Hollesen, Inc., 17 Battery Place, N. Y.
C. W. Leavitt & Co., 30 Church St., N. Y.
Mitsui & Co., Ltd., 65 Broadway, N. Y.
Frank Samuel & Co., Philadelphia, Pa.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
Wah Chang Trading Corp., Woolworth Bldg., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

SCRAP IRON AND STEEL.

Bethlehem Steel Co., Bethlehem, Pa.
Debevoise-Anderson Co., 114 Liberty St., N. Y.
Hickman, Williams & Co., Inc., St. Louis, Mo.
H. Hollesen, Inc., 17 Battery Place, N. Y.

SCRAP IRON AND STEEL. (Ctd.)

The M. N. Landay Co., Pittsburgh, Pa.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Frank Samuel & Co., Philadelphia, Pa.
H. N. Trimble, Pittsburgh, Pa.

SCRAP METALS.

General Copper Co., 543 W. 25th St., N. Y.
General Metals Refining Co., St. Louis, Mo.
Girard Smelt. & Refg. Co., Philadelphia, Pa.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
The Koblitz-Kohn Co., Cleveland, O.
H. Kramer & Co., Chicago, Ill.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Metallurgical & Chemical Corp., Matawan, N. J.
Michigan Smelt. & Refg. Co., Detroit, Mich.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
Philipp Bros, Inc., 233 Broadway, N. Y.
Pope Trading Corp., 90 West St., N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.

SCREW MACHINE STOCK (Steel).

Bethlehem Steel Co., Bethlehem, Pa.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.

SELENIUM.

The American Metal Co., Ltd., 61 Broadway, N. Y.
American Smelt. & Refg. Co., 120 Broadway, N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
United Metals Selling Co., 25 Broadway, N. Y.

SHAFTING (Cold Rolled).

Bethlehem Steel Co., Bethlehem, Pa.
T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.

SHEARS.

Bethlehem Steel Co., Bethlehem, Pa.

SHEET BARS.

Allegheny Steel Co., Brackenridge, Pa.
Bethlehem Steel Co., Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
Cooper, Claypool & Co., Ltd., Pittsburgh, Pa.
Hickman, Williams & Co., Inc., Pittsburgh, Pa.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Illinois Steel Co., Chicago, Ill.
Inland Steel Co., Chicago, Ill.

SHEET BARS. (Ctd.)

Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 The Mansfield Sheet & Tin Plate Co., Mansfield, O.
 Otis Steel Co., P.O. Box 694, Cleveland, O.
 Republic Iron & Steel Co., Youngstown, O.
 Sharon Steel Hoop Co., Sharon, Pa.
 Richard Thomas & Co., Ltd., Bush House,
 Aldwych, London, W. C. 2, England.
 Wheeling Steel Corp., Wheeling, W. Va.
 The Youngstown Sheet & Tube Co., Youngstown, O.

SHEET PILING.

Bethlehem Steel Co., Bethlehem, Pa.
 Carnegie Steel Co., Pittsburgh, Pa.
 Illinois Steel Co., Chicago, Ill.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.

SHEETS (Automobile).

Allegheny Steel Co., Brackenridge, Pa.
 Aluminum Co. of America, Pittsburgh, Pa.
 American Sheet & Tin Plate Co., Pittsburgh, Pa.
 Bethlehem Steel Co., Bethlehem, Pa.
 The Eastern Rolling Mill Co., Baltimore, Md.
 Follansbee Bros. Co., Pittsburgh, Pa.
 The Mansfield Sheet & Tin Plate Co., Mansfield, O.
 Michigan Steel Corp., Ecorse, Detroit, Mich.
 The Newton Steel Co., Youngstown, O.
 Otis Steel Co., P.O. Box 694, Cleveland, O.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Seneca Iron & Steel Co., Buffalo, N. Y.
 Sharon Steel Hoop Co., Sharon, Pa.
 The Trumbull Steel Co., Warren, O.
 Wheeling Steel Corp., Wheeling, W. Va.
 Alan Wood Iron & Steel Co., Philadelphia, Pa.
 The Youngstown Sheet & Tube Co., Youngstown, O.

SHEETS (Black).

Allegheny Steel Co., Brackenridge, Pa.
 American Sheet & Tin Plate Co., Pittsburgh, Pa.
 Apollo Steel Co., Apollo, Pa.
 H. B. Barnard & Sons, 149 Leadenhall St.,
 London, E. C. 3, England.
 Bethlehem Steel Co., Bethlehem, Pa.
 Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
 Follansbee Bros. Co., Pittsburgh, Pa.
 Inland Steel Co., Chicago, Ill.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 The Mahoning Valley Steel Co., Niles, O.

SHEETS (Black). (Ctd.)

The Mansfield Sheet & Tin Plate Co., Mansfield, O.
 McKeesport Tin Plate Co., McKeesport, Pa.
 National Enam. & Stamp. Co., Granite City, Ill.
 The Newton Steel Co., Youngstown, O.
 Otis Steel Co., P.O. Box 694, Cleveland, O.
 The Reeves Mfg. Co., Dover, O.
 Republic Iron & Steel Co., Youngstown, O.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Seneca Iron & Steel Co., Buffalo, N. Y.
 Sharon Steel Hoop Co., Sharon, Pa.
 Richard Thomas & Co., Ltd., Bush House,
 Aldwych, London, W. C. 2, England.
 The Superior Sheet Steel Co., Canton, O.
 The Trumbull Steel Co., Warren, O.
 Waldo, Egbert & McClain, Inc., Buffalo, N. Y.
 Wheeling Steel Corp., Wheeling, W. Va.
 Alan Wood Iron & Steel Co., Philadelphia, Pa.
 The Youngstown Sheet & Tube Co., Youngstown, O.

SHEETS (Blue Annealed).

Allegheny Steel Co., Brackenridge, Pa.
 American Sheet & Tin Plate Co., Pittsburgh, Pa.
 Apollo Steel Co., Apollo, Pa.
 Bethlehem Steel Co., Bethlehem, Pa.
 Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
 Follansbee Bros. Co., Pittsburgh, Pa.
 Inland Steel Co., Chicago, Ill.
 The Mansfield Sheet & Tin Plate Co., Mansfield, O.
 National Enam. & Stamp. Co., Granite City, Ill.
 The Newton Steel Co., Youngstown, O.
 Otis Steel Co., P.O. Box 694, Cleveland, O.
 The Reeves Mfg. Co., Dover, O.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Sharon Steel Hoop Co., Sharon, Pa.
 The Superior Sheet Steel Co., Canton, O.
 Richard Thomas & Co., Ltd., Bush House,
 Aldwych, London, W. C. 2, England.
 The Trumbull Steel Co., Warren, O.
 Waldo, Egbert & McClain, Inc., Buffalo, N. Y.
 Wheeling Steel Corp., Wheeling, W. Va.
 Alan Wood Iron & Steel Co., Philadelphia, Pa.
 The Youngstown Sheet & Tube Co., Youngstown, O.

SHEETS (Copper Alloy).

Allegheny Steel Co., Brackenridge, Pa.
 The American Brass Co., Waterbury, Conn.
 American Sheet & Tin Plate Co., Pittsburgh, Pa.

SHEETS (Copper Alloy). (Ctd.)

Apollo Steel Co., Apollo, Pa.
 Dallas Brass & Copper Co., Chicago, Ill.
 Federated Metals Corp., 233 Broadway, N. Y.
 Follansbee Bros. Co., Pittsburgh, Pa.
 Inland Steel Co., Chicago, Ill.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 The Mansfield Sheet & Tin Plate Co., Mansfield, O.
 National Enam. & Stamp. Co., Granite City, Ill.
 Scovill Mfg. Co., Waterbury, Conn.
 Sharon Steel Hoop Co., Sharon, Pa.
 The Superior Sheet Steel Co., Canton, O.
 The Trumbull Steel Co., Warren, O.
 Waldo, Egbert & McClain, Inc., Buffalo, N. Y.
 Wheeling Steel Corp., Wheeling, W. Va.
 Alan Wood Iron & Steel Co., Philadelphia, Pa.
 The Youngstown Sheet & Tube Co., Youngstown, O.

SHEETS (Electrical).

Allegheny Steel Co., Brackenridge, Pa.
 American Sheet & Tin Plate Co., Pittsburgh, Pa.
 Follansbee Bros. Co., Pittsburgh, Pa.
 Inland Steel Co., Chicago, Ill.
 The Mansfield Sheet & Tin Plate Co., Mansfield, O.
 Sharon Steel Hoop Co., Sharon, Pa.
 The Trumbull Steel Co., Warren, O.
 Wheeling Steel Corp., Wheeling, W. Va.
 Alan Wood Iron & Steel Co., Philadelphia, Pa.

SHEETS (Galvanized).

American Sheet & Tin Plate Co., Pittsburgh, Pa.
 Apollo Steel Co., Apollo, Pa.
 H. B. Barnard & Sons., 149 Leadenhall St.,
 London, E. C. 3, England.
 Bethlehem Steel Co., Bethlehem, Pa.
 Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
 Follansbee Bros. Co., Pittsburgh, Pa.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Inland Steel Co., Chicago, Ill.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 National Enam. & Stamp. Co., Granite City, Ill.
 The Reeves Mfg. Co., Dover, O.
 Republic Iron & Steel Co., Youngstown, O.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 The Superior Sheet Steel Co., Canton, O.
 The Trumbull Steel Co., Warren, O.
 Waldo, Egbert & McClain, Inc., Buffalo, N. Y.

SHEETS (Galvanized.) (Ctd.)

Wheeling Steel Corp., Wheeling, W. Va.
The Youngstown Sheet & Tube Co., Youngstown, O.

SHEETS (Iron).

Allegheny Steel Co., Brackenridge, Pa.
Apollo Steel Co., Apollo, Pa.
Bethlehem Steel Co., Bethlehem, Pa.
Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
Follansbee Bros. Co., Pittsburgh, Pa.
Richards Co., Inc., Battery Wharf, Boston, Mass.
The Superior Sheet Steel Co., Canton, O.
Wheeling Steel Corp., Wheeling, W. Va.
The Youngstown Sheet & Tube Co., Youngstown, O.

SHEETS (Super Metal).

The Superior Sheet Steel Co., Canton, O.

SHERARDIZING ZINC.

American Smelt. & Refg. Co., 120 Broadway, N. Y.
The Grasselli Chemical Co., Cleveland, O.

SIDING (Steel).

American Sheet & Tin Plate Co., Pittsburgh, Pa.
Apollo Steel Co., Apollo, Pa.
Follansbee Bros. Co., Pittsburgh, Pa.
National Enam. & Stamp. Co., Granite City, Ill.
The Reeves Mfg. Co., Dover, O.
The Superior Sheet Steel Co., Canton, O.
The Trumbull Steel Co., Warren O.
Wheeling Steel Corp., Wheeling, W. Va.
The Youngstown Sheet & Tube Co., Youngstown, O.

SILICA BRICK.

Harbison-Walker Refractories Co., Pittsburgh, Pa.
Richard Thomas & Co., Ltd., Bush House,
Aldwych, London, W. C. 2, England.
U. S. Refractories Corp., Mount Union, Pa.

SILICON COPPER.

The Cincinnati Railway Supply Co.,
13 East 2nd St., Cincinnati, O.
Federated Metals Corp., 233 Broadway, N. Y.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N.Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.

SILVER ALLOYS.

American Boron Products Co., Reading, Pa.

SILVER (Bars, Sheets).

The American Metal Co., Ltd., 61 Broadway, N. Y.
American Smelt. & Refg. Co., 120 Broadway, N. Y.
Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
The Consolidated Mining & Smelting Co. of
Canada, Ltd., Montreal, Can.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
Kastenhuber & Lehrfeld, 24 John St., N. Y.
A. W. Millhauser Corp., 25 Broadway, N. Y.
R. & H. Platinum Works, 709 Sixth Ave., N. Y.
Schwitter, Clover & Starkweather, Inc. Newark, N. J.
Societe Generale des Minerais, 31 Rue du Marais,
Brussels, Belgium.
United Metals Selling Co., 25 Broadway, N. Y.
Vernon Metal & Produce Co., 25 Beaver St., N. Y.
The H. A. Wilson Co., Newark, N. J.

SKELP (Iron).

Bethlehem Steel Co., Bethlehem, Pa.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
The Reeves Mfg. Co., Dover, O.

SKELP (Steel).

Carnegie Steel Co., Pittsburgh, Pa.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Republic Iron & Steel Co., Youngstown, O.
Sharon Steel Hoop Co., Sharon, Pa.
The Youngstown Sheet & Tube Co., Youngstown, O.

SOLDER (Aluminum).

Aluminum Co. of America, Pittsburgh, Pa.
Federated Metals Corp., 233 Broadway, N. Y.
General Metals Refining Co., St. Louis, Mo.
Michigan Smelt & Refg. Co., Detroit, Mich.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.

SOLDER (Bars, Wire and Ribbon).

The Ajax Metal Co., Philadelphia, Pa.
Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
S. Birkenstein & Sons, Inc.,
1054 W. North Ave., Chicago, Ill.
T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.
Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
The Eagle-Picher Lead Co, Chicago, Ill.
Gardiner Metal Co., Chicago, Ill.

SOLDER (Bars, Wire and Ribbon). (Ctd.)

General Metals Refining Co., St. Louis, Mo.
 Girard Smelt. & Refg. Co., Philadelphia, Pa.
 Hoyt Metal Co., 111 Broadway, N. Y.
 Marks Lissberger & Son, Inc.,
 281 Borden Ave., L. I. City, N. Y.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 Magnus Co., Inc., Chicago, Ill.
 Metallurgical & Chemical Corp., Matawan, N. J.
 Michigan Smelt. & Refg. Co., Detroit, Mich.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 The Nassau Smelting & Refining Works, Ltd.,
 603 W. 29th St., N. Y.
 National Smelt. & Refg. Co., Detroit, Mich.
 Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Tottenville Copper Co., Inc., Tottenville, N. Y.

SOLDER (Brazing).

The American Brass Co., Waterbury, Conn.
 S. Birkenstein & Sons, Inc.,
 1054 W. North Ave., Chicago, Ill.
 T. E. Conklin Brass & Copper Co.,
 54 Lafayette St., N. Y.
 Federated Metals Corp., 233 Broadway, N. Y.
 Follansbee Bros. Co., Pittsburgh, Pa.
 General Metals Refining Co., St. Louis, Mo.
 Marks Lissberger & Son, Inc.,
 281 Borden Ave., L. I. City, N. Y.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 Michigan Smelt. & Refg. Co., Detroit, Mich.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 The Nassau Smelting & Refining Works, Ltd.,
 603 West 29th St., N. Y.
 National Smelt. & Refg. Co., Detroit, Mich.
 Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Tottenville Copper Co., Inc., Tottenville, N. Y.

SOLDER (Silver).

The Ajax Metal Co., Philadelphia, Pa.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 The H. A. Wilson Co., Newark, N. J.

SOLDERING COPPERS.

T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.
Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
Follansbee Bros. Co., Pittsburgh, Pa.
More-Jones Brass & Metal Co., St. Louis, Mo.
Richards Co., Inc., Battery Wharf, Boston, Mass.

SPIEGELEISEN.

Bethlehem Steel Co., Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
Debevoise-Anderson Co., 114 Liberty St., N. Y.
Hickman, Williams & Co., Inc., Equit. Bldg., N.Y.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Int'l Minerals & Metals Corp., 61 Broadway, N.Y.
C. W. Leavitt & Co., 30 Church St., N. Y.
The New Jersey Zinc Co., 160 Front St., N. Y.
Pilling & Co., Philadelphia, Pa.
Rogers, Brown & Crocker Bros., Inc.,
21 East 40th St., N. Y.
Frank Samuel & Co., Philadelphia, Pa.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
Waldo, Egbert & McClain, Inc., Buffalo, N. Y.
Walter-Wallingford & Co., Cincinnati, O.

SPLICE BARS.

Bethlehem Steel Co Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
Illinois Steel Co., Chicago, Ill.
Inland Steel Co., Chicago, Ill.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
The M. N. Landay Co., Pittsburgh, Pa.

SPIKES (Railroad).

Bethlehem Steel Co., Bethlehem, Pa.
Illinois Steel Co., Chicago, Ill.
Inland Steel Co., Chicago, Ill.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
The M. N. Landay Co., Pittsburgh, Pa.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.

SPRING WIRE.

The American Brass Co., Waterbury, Conn.
Bethlehem Steel Co., Bethlehem, Pa.
T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Pittsburgh Steel Co., Pittsburgh, Pa.

STAMPING STEEL (Strip).

Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
Follansbee Bros. Co., Pittsburgh, Pa.
Illinois Steel Co., Chicago, Ill.
Otis Steel Co., P.O. Box 694, Cleveland, O.
Sharon Steel Hoop Co., Sharon, Pa.
West Leechburg Steel Co., Pittsburgh, Pa.
Wheeling Steel Corp., Wheeling, W. Va.

STAMPINGS (Steel).

Allegheny Steel Co., Brackenridge, Pa.
Bethlehem Steel Co., Bethlehem, Pa.

STEEL (Alloy) Chrome, Nickel, Vanadium, etc.

Allegheny Steel Co., Brackenridge, Pa.
Bethlehem Steel Co., Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
Illinois Steel Co., Chicago, Ill.

STEEL (Cold Drawn).

The Fitzsimons Co., Youngstown, O.

STEEL (Cold Rolled Strip).

Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
Otis Steel Co., P.O. Box 694, Cleveland, O.
The Trumbull Steel Co., Warren, O.
West Leechburg Steel Co., Pittsburgh, Pa.

STEEL (High Speed).

Bethlehem Steel Co., Bethlehem, Pa.
The Cincinnati Railway Supply Co.,
13 East 2nd St., Cincinnati, O.
H. Hollesen, Inc., 17 Battery Place, N. Y.

STEEL (Hot Rolled Strip).

Carnegie Steel Co., Pittsburgh, Pa.
Illinois Steel Co., 208 S. La Salle St., Chicago, Ill.
Otis Steel Co., P.O. Box 694, Cleveland, O.
Pittsburgh Steel Co., Pittsburgh, Pa.
Sharon Steel Hoop Co., Sharon, Pa.
The Trumbull Steel Co., Warren, O.
West Leechburg Steel Co., Pittsburgh, Pa.

STEEL STRUCTURE.

American Bridge Co., 71 Broadway, N. Y.
Bethlehem Steel Co., Bethlehem, Pa.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.

STOCKS AND BONDS (Brokers).

Goodbody & Co., 115 Broadway, N. Y.
Thos. L. Manson & Co., 100 Broadway, N. Y.

STRUCTURAL IRON AND STEEL.

American Bridge Co., 71 Broadway, N. Y.
Bethlehem Steel Co., Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
Illinois Steel Co., 208 S. La Salle St., Chicago, Ill.
Inland Steel Co., 38 S. Dearborn St., Chicago, Ill.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Republic Iron & Steel Co., Youngstown, O.

SULPHATE OF COPPER.

The American Metal Co., Ltd., 61 Broadway, N. Y.
American Smelt. & Refg. Co., 120 Broadway, N. Y.
Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
The Grasselli Chemical Co., Cleveland, O.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
Irvington Smelt. & Refg. Works, Irvington, N. J.
Philipp Bros., Inc., 233 Broadway, N. Y.
Societe Generale des Minerais, 31 Rue du Marais,
Brussels, Belgium.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

TANKS (Oil Storage).

American Bridge Co., 71 Broadway, N. Y.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.

TANTALUM METAL.

C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

TELLURIUM.

American Smelt. & Refg. Co., 120 Broadway, N. Y.
U. S. Smelt., Refg. & Mining Co., 130 B'way, N. Y.

TERNE METAL.

Girard Smelt. & Refg. Co., Philadelphia, Pa.
Metals Refg. Co., P.O. Box 138, Hammond, Ind.
The Nassau Smelting & Refining Works, Ltd.,
603 West 29th St., N. Y.
Pope Trading Corp., 90 West St., N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Tottenville Copper Co., Inc., Tottenville, N. Y.

TERNE PLATE.

American Sheet & Tin Plate Co., Pittsburgh, Pa.
Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
Follansbee Bros. Co., Pittsburgh, Pa.
Metallurgical & Chemical Corp., Matawan, N. J.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.

TERNE PLATE. (Ctd.)

The Superior Sheet Steel Co., Canton, O.
The Trumbull Steel Co. Warren, O.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.
Wheeling Steel Corp., Wheeling, W. Va.

TESTING LABORATORIES.

C. L. Constant Co., 220 Broadway, N. Y.
Ledoux & Co., 99 John St., N. Y.
N. Y. Testing Laboratories, 80 Wash. St., N. Y.

THERMOSTATIC METAL.

The H. A. Wilson Co., Newark, N. J.

TIE PLATES.

Bethlehem Steel Co., Bethlehem, Pa.
Illinois Steel Co., 208 S. La Salle St., Chicago, Ill.
Inland Steel Co., 38 S. Dearborn St., Chicago, Ill.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
The M. N. Landay Co., Pittsburgh, Pa.
Wheeling Steel Corp., Wheeling, W. Va.

TIN (Pig).

The American Metal Co., Ltd., 61 Broadway, N. Y.
Associated Metals & Min. Corp. 100 E 42 St., N.Y.
H. B. Barnard & Sons, 149 Leadenhall St.,
London, E. C. 3, England.
S. Birkenstein & Sons, Inc.,
1054 W. North Ave., Chicago, Ill.
China Commercial Co., Ltd., 40 Rector St., N. Y.
The Cincinnati Railway Supply Co.,
13 East 2nd St., Cincinnati, O.
A. C. Daft, Oliver Bldg., Pittsburgh, Pa.
Henry Gardner, Guiterman & Co., Inc.,
120 Broadway, N. Y.
Federated Metals Corp., 233 Broadway, N. Y.
Gardiner Metal Co., 1356-64 W. Lake St., Chicago.
General Metals Refining Co., St. Louis, Mo.
Girard Smelt. & Refg. Co., Philadelphia, Pa.
Chas. Gitlan, 35 Nassau St., N. Y.
Benj. Harris & Co., 21st & Loomis Sts., Chicago.
Hendricks Bros., Inc., 49 Cliff St., N. Y.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Hoyt Metal Co., 111 Broadway, N. Y.
H. Kramer & Co., Loomis St. & 21st Pl., Chicago.
Lewis Lazarus & Sons, 25 Broadway, N. Y.
C. W. Leavitt & Co., 30 Church St., N. Y.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Metallurgical & Chemical Corp., Matawan, N. J.

TIN (Pig). (Ctd.)

Metal Traders, Inc., 67 Wall St., N. Y.
 Metal & Thermit Corp., 120 Broadway, N. Y.
 Metals Refining Co., P.O. Box 138, Hammond, Ind.
 Michigan Smelt. & Refg. Co., Detroit, Mich.
 A. W. Millhauser Corp., 25 Broadway, N. Y.
 Mitsui & Co, Ltd, 65 Broadway, N. Y.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 E. L. Murphy & Co., Tribune Tower, Chicago, Ill.
 The Nassau Smelting & Refining Works, Ltd.,
 603 West 29th St., N. Y.
 National Smelt. & Refg. Co., Detroit, Mich.
 Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Henry Shambroom & Co., Inc., 291 Broadway, N.Y.
 Sino Java Handelsvereniging, Inc.,
 40 Rector St., N. Y.
 Suzuki & Co., 220 Broadway, N. Y.
 C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
 Tottenville Copper Co., Inc., Tottenville, N. Y.
 C. S. Trench & Co., 11 Cliff St., N. Y.
 Nathan Trotter & Co., Philadelphia, Pa.
 Vernon Metal & Produce Co., Inc.,
 25 Beaver St., N. Y.
 Wah Chang Trading Corp., Woolworth Bldg., N.Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.

TIN FOIL.

Gardiner Metal Co., 1356-64 W. Lake St., Chicago.
 H. Kramer & Co., Loomis St. & 21st Pl., Chicago.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.

TIN PIPE.

The Eagle-Picher Lead Co., Chicago, Ill.
 Federated Metals Corp., 233 Broadway, N. Y.
 Gardiner Metal Co., 1356-64 W. Lake St., Chicago.
 Girard Smelt. & Refg. Co., Philadelphia, Pa.
 Hoyt Metal Co., 111 Broadway, N. Y.
 H. Kramer & Co., Loomis St. & 21st Pl., Chicago.
 Marks Lissberger & Son, Inc.,
 281 Borden Ave., L. I. City, N. Y.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.

TIN PLATE.

American Sheet & Tin Plate Co., Pittsburgh, Pa.
 Bethlehem Steel Co., Bethlehem, Pa.
 Dickerson, Van Dusen & Co. 11 Cliff St., N. Y.
 The Falcon Steel Co., Niles O.
 Follansbee Brothers, Inc., Pittsburgh, Pa.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Jones & Laughlin Steel Corp., Pittsburgh, Pa.
 McKeesport Tin Plate Co., McKeesport, Pa.
 National Enam. & Stamp. Co., Granite City, Ill.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
 Richard Thomas & Co., Ltd., Bush House,
 Aldwych, London, W. C. 2, England.
 The Trumbull Steel Co., Warren, O.
 Washington Tin Plate Co., Washington, Pa.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.
 Wheeling Steel Corp., Wheeling, W. Va.

TITANIUM (Ferro).

Metal & Thermit Corp., 120 Broadway, N. Y.
 Frank Samuel & Co., Philadelphia, Pa.
 C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.

TOOL STEEL.

Bethlehem Steel Co., Bethlehem, Pa.
 The Cincinnati Railway Supply Co.,
 13 East 2nd St., Cincinnati, O.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Illinois Steel Co., 208 S. La Salle St., Chicago, Ill.
 Wheeling Steel Corp., Wheeling, W. Va.

TUBES (Seamless Steel).

E. F. Keatin- Co., 446 Water St., N. Y.
 National Tube Co. Pittsburgh, Pa.
 Tyler Tube & Pipe Co., Washington, Pa.
 Wheeling Steel Corp., Wheeling, W. Va.
 The Youngstown Sheet & Tube Co., Youngstown, O.

TUBING (Lock Seam).

Dallas Brass & Cop. Co., 820 Orleans St., Chicago.

TUBING (Seamless Brass and Copper).

The American Brass Co., Waterbury, Conn.
 T. E. Conklin Brass & Copper Co.,
 54 Lafayette St., N. Y.
 Dallas Brass & Cop. Co., 820 Orleans St., Chicago.
 Detroit Cop. & Brass Rolling Mills, Detroit, Mich.
 R. & H. Platinum Works, 709 Sixth Ave., N. Y.

TUBING (Seamless Brass and Copper). (Ctd.)

Richards Co., Inc., Battery Wharf, Boston, Mass.
Scovill Mfg. Co., Waterbury, Conn.
Standard Underground Cable Co., Pittsburgh, Pa.

TUBING (Seamless Platinum).

J. Bishop & Co. Platinum Works, Malvern, Pa.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
R. & H. Platinum Works, 709 Sixth Ave., N. Y.

TUNGSTEN ORE.

Arnhold & Co., 21 State St., N. Y.
China Commercial Co., Ltd., 40 Rector St., N. Y.
A. C. Daft, Oliver Bldg., Pittsburgh, Pa.
Debevoise-Anderson Co., 114 Liberty St., N. Y.
Chas. Gitlan, 35 Nassau St., N. Y.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
Metal & Thermit Corp., 120 Broadway, N. Y.
Mitsui & Co., Ltd., 65 Broadway, N. Y.
Philipp Bros. Inc., 233 Broadway, N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Frank Samuel & Co., Philadelphia, Pa.
Henry Shambroom & Co., Inc., 291 B'way, N. Y.
Sino Java Handelsvereeniging, Inc.,
40 Rector St., N. Y.
Suzuki & Co., 220 Broadway, N. Y.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N. Y.
Wah Chang Trading Corp., Woolworth Bldg., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

TUNGSTEN POWDER.

A. C. Daft, Oliver Bldg., Pittsburgh, Pa.
Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Metal & Thermit Corp., 120 Broadway, N. Y.
Frank Samuel & Co., Philadelphia, Pa.
Sino Java Handelsvereeniging, Inc.,
40 Rector St., N. Y.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

TUNGSTEN SALTS.

Watson, Geach & Co., Inc., 56 Pine St., N. Y.

TURNBUCKLES.

Bethlehem Steel Co., Bethlehem, Pa.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.

TURNTABLES.

American Bridge Co., 71 Broadway, N. Y.
Bethlehem Steel Co., Bethlehem, Pa.

TYPE METALS.

The Ajax Metal Co., Philadelphia, Pa.
Gardiner Metal Co., 1356-64 W. Lake St., Chicago.
General Metals Refining Co., St. Louis, Mo.
Girard Smelt. & Refg. Co., Philadelphia, Pa.
Hoyt Metal Co., 111 Broadway, N. Y.
The Koblitz-Kohn Co., Cleveland, O.
H. Kramer & Co., Loomis St. & 21st Pl. Chicago.
Metallurgical & Chemical Co., Matawan, N. J.
Metals Refining Co., P.O. Box 138, Hammond, Ind.
Michigan Smelt. & Refg. Co., Detroit, Mich.
The Nassau Smelting & Refining Works, Ltd.,
603 West 29th St., N. Y.
National Smelt. & Refg. Co., Detroit Mich.
Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
Pope Trading Corp., 90 West St., N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.
Tottenville Copper Co., Inc., Tottenville, N. Y.

VALVES (Brass and Iron).

Keystone Bronze Co., Pittsburgh, Pa.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.

VANADIUM.

The American Metal Co., Ltd., 61 Broadway, N.Y.
Metal & Thermit Corp., 120 Broadway N. Y.
Frank Samuel & Co., Philadelphia, Pa.

WHEELS (Car and Locomotive).

Am. Steel Foundries, McCormick Bldg., Chicago.
Bethlehem Steel Co., Bethlehem, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
Illinois Steel Co., 208 S. La Salle St., Chicago, Ill.

WHITE LEAD.

Anaconda Copper Mining Co., Rolling Mills Dept.,
111 W. Washington St., Chicago, Ill.
Metals Refining Co., P.O. Box 138, Hammond, Ind.

WIRE (Barbed).

Bethlehem Steel Co., Bethlehem, Pa.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Page Steel & Wire Co., Bridgeport, Conn.
Pittsburgh Steel Co., Pittsburgh, Pa.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.

WIRE (Barbed). (Ctd.)

Wheeling Steel Corp., Wheeling, W. Va.
The Youngstown Sheet & Tube Co., Youngstown, O.

WIRE (Copper, Tinned and Insulated).

The American Brass Co., Waterbury, Conn.
American Insulated Wire & Cable Co.,
954 West 21st St., Chicago, Ill.
Anaconda Copper Min. Co., Rolling Mills Dept.,
111 W. Washington St., Chicago, Ill.
Brenner-Mervis Co., 21st, Sangamon & Morgan
Sts., Chicago, Ill.
T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.
Detroit Cop. & Brass Rolling Mills, Detroit, Mich.
Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
Pope Trading Corp., 90 West St., N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.
Rome Wire Co., Rome, N. Y.
Standard Underground Cable Co., Pittsburgh, Pa.

WIRE (Iron).

Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
Page Steel & Wire Co., Bridgeport, Conn.

WIRE (Laboratory Platinum).

Kastenhuber & Lehrfeld, 24 John St., N. Y.
R. & H. Platinum Works, 709 Sixth Ave., N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
The H. A. Wilson Co., 97 Chestnut St., Newark, N.J.

WIRE (Steel, Copper Clad).

Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
Standard Underground Cable Co., Pittsburgh, Pa.
The Youngstown Sheet & Tube Co., Youngstown, O.

WIRE (Weatherproof).

Aluminum Co. of America, Pittsburgh, Pa.
The American Brass Co., Waterbury, Conn.
American Insulated Wire & Cable Co.,
954 West 21st St., Chicago, Ill.
Page Steel & Wire Co., Bridgeport, Conn.
Rome Wire Co., Rome, N. Y.
Standard Underground Cable Co., Pittsburgh, Pa.

WIRE (Welding).

The American Brass Co., Waterbury, Conn.
Anaconda Cop. Mining Co., Rolling Mills Dept.,
111 W. Washington St., Chicago, Ill.

WIRE (Welding). (Ctd.)

Aluminum Co. of America, Pittsburgh, Pa.
Page Steel & Wire Co., Bridgeport, Conn.
Pittsburgh Steel Co., Pittsburgh, Pa.
Rome Wire Co., Rome, N. Y.
Scovill Mfg. Co., Waterbury, Conn.

WIRE AND WIRE RODS (Steel).

Bethlehem Steel Co., Bethlehem, Pa.
Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
Hickman, Williams & Co., Inc., Pittsburgh, Pa.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Page Steel & Wire Co., Bridgeport, Conn.
Pittsburgh Steel Co., Pittsburgh, Pa.
Wheeling Steel Corp., Wheeling, W. Va.
The Youngstown Sheet & Tube Co., Youngstown, O.

WIRE CLOTH.

T. E. Conklin Brass & Copper Co.,
54 Lafayette St., N. Y.
H. Kramer & Co., Loomis St. & 21st Pl. Chicago.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.

WIRE FENCE.

Bethlehem Steel Co., Bethlehem, Pa.
Jones & Laughlin Steel Corp., Pittsburgh, Pa.
Page Steel & Wire Co., Bridgeport, Conn.
Pittsburgh Steel Co., Pittsburgh, Pa.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Wheeling Steel Corp., Wheeling, W. Va.
The Youngstown Sheet & Tube Co., Youngstown, O.

WIRE SHAPES.

Aluminum Co. of America, Pittsburgh, Pa.

WOLFRAMITE.

China Commercial Co., Ltd., 40 Rector St., N. Y.
A. C. Daft, Oliver Bldg., Pittsburgh, Pa.
Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
Mitsui & Co., Ltd., 65 Broadway, N. Y.
Philipp Bros., Inc., 233 Broadway, N. Y.
Frank Samuel & Co., Philadelphia, Pa.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N. Y.
Wah Chang Trading Corp., Woolworth Bldg., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

ZINC ALLOYS.

American Boron Products Co., Reading, Pa.

ZINC (Slab).

- The American Metal Co., Ltd., 61 Broadway, N. Y.
 American Smelt. & Refg. Co., 120 Broadway, N. Y.
 Am. Zinc, Lead & Smelt. Co., 331 Mad. Ave., N.Y.
 The American Zinc Products Co., Greencastle, Ind.
 Associated Metals & Min. Corp., 100 E. 42 st, N.Y.
 H. B. Barnard & Sons, 149 Leadenhall St.,
 London, E. C. 3, England.
 S. Birkenstein & Sons, Inc.,
 1054 W. North Ave., Chicago, Ill.
 The Cincinnati Railway Supply Co.,
 13 East 2nd St., Cincinnati, O.
 The Consolidated Min. & Smelt. Co. of Can. Ltd.,
 Drummond Bldg., Montreal, Can.
 Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
 Henry Gardner, Guiterman & Co., Inc.,
 120 Broadway, N. Y.
 The Eagle-Picher Lead Co., Chicago, Ill.
 Federated Metals Corp., 233 Broadway, N. Y.
 Gardiner Metal Co., 1356-64 W. Lake St., Chicago.
 General Metals Refining Co., St. Louis, Mo.
 General Smelting Co., Philadelphia, Pa.
 Girard Smelt. & Refg. Co., Philadelphia, Pa.
 Chas. Gitlan, 35 Nassau St., N. Y.
 The Grasselli Chemical Co., Cleveland, O.
 Benj. Harris & Co., 21st & Loomis Sts., Chicago.
 The Hegeler Zinc Co., Danville, Ill.
 Hendricks Bros., Inc., 49 Cliff St., N. Y.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Illinois Zinc Co., 332 S. Mich. Ave., Chicago, Ill.
 Int'l Minerals & Metals Corp., 61 Broadway, N.Y.
 Lewis Lazarus & Sons, 25 Broadway, N. Y.
 P. & W. MacLellan, Ltd., Glasgow, Scotland.
 Mathiessen & Hegeler Zinc Co., La Salle, Ill.
 Metal Traders, Inc., 67 Wall St., N. Y.
 A. W. Millhauser Corp., 25 Broadway, N. Y.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 E. L. Murphy & Co., Tribune Tower, Chicago, Ill.
 The Nassau Smelting & Refining Works, Ltd.,
 603 West 29th St., N. Y.
 National Smelt. & Refg. Co., Detroit, Mich.
 The New Jersey Zinc Co., 160 Front St., N. Y.
 Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
 M. M. Pearlman & Co., Jefferson Bldg., Phila., Pa.
 Pope Trading Corp., 90 West St., N. Y.
 Quinton Spelter Co., Joplin, Mo.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.

ZINC (Slab). (Ctd.)

Henry Shambroom & Co., Inc., 291 Broadway, N.Y.
 C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
 Tottenville Copper Co., Inc., Tottenville, N. Y.
 C. S. Trench & Co., 11 Cliff St., N. Y.
 Nathan Trotter & Co., 36 N. Front St., Phila., Pa.
 United Metals Selling Co., 25 Broadway, N. Y.
 John Wahl Commission Co., St. Louis, Mo.

ZINC CHLORIDE.

S. Birkenstein & Sons, Inc.,
 1054 W. North Ave., Chicago, Ill.
 The Grasselli Chemical Co., Cleveland, O.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 The New Jersey Zinc Co., 160 Front St., N. Y.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.

ZINC DUST.

The American Metal Co., Ltd., 61 Broadway, N. Y.
 American Smelt. & Refg. Co., 120 Broadway, N. Y.
 The Am. Zinc Products Co., Greencastle, Ind.
 The Grasselli Chemical Co., Cleveland, O.
 Int'l Minerals & Metals Corp., 61 Broadway, N.Y.
 Mitsui & Co., Ltd., 65 Broadway, N. Y.
 The Nassau Smelting & Refining Works, Ltd.,
 603 West 29th St., N. Y.
 The New Jersey Zinc Co., 160 Front St., N. Y.
 M. M. Pearlman & Co., Jefferson Bldg., Phila. Pa.
 Societe Generale des Minerais, 31 Rue du Marais,
 Brussels, Belgium.
 C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
 Tottenville Copper Co., Inc., Tottenville, N. Y.

ZINC OXIDE.

American Smelt. & Refg. Co., 120 Broadway, N. Y.
 Am. Zinc, Lead & Smelt. Co., 331 Mad. Ave., N.Y.
 The Grasselli Chemical Co., Cleveland, O.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 The Nassau Smelting & Refining Works, Ltd.,
 603 West 29th St., N. Y.
 The New Jersey Zinc Co., 160 Front St., N. Y.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
 Tottenville Copper Co., Inc., Tottenville, N. Y.

ZINC ROOFING.

The Am. Zinc Products Co., Greencastle, Ind.
Illinois Zinc Co., 332 S. Mich. Ave., Chicago, Ill.
Mattheissen & Hegeler Zinc Co., La Salle, Ill.
The New Jersey Zinc Co., 160 Front St., N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.

ZINC SHEETS AND PLATES.

The Am. Zinc Products Co., Greencastle, Ind.
Ball Brothers Co., Muncie, Ind.
H. B. Barnard & Sons, 149 Leadenhall St.,
London, E. C. 3, England.
Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
Hazel Atlas Glass Co., 53 Park Place, N. Y.
Illinois Zinc Co., 332 S. Mich. Ave., Chicago, Ill.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Mattheissen & Hegeler Zinc Co., La Salle, Ill.
The New Jersey Zinc Co., 160 Front St., N. Y.
Pope Trading Corp., 90 West St., N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.

ZINC STRIPS.

The Am. Zinc Products Co., Greencastle, Ind.
Ball Brothers, Co., Muncie, Ind.
Dickerson, Van Dusen & Co., 11 Cliff St., N. Y.
Hazel Atlas Glass Co., 53 Park Place, N. Y.
Illinois Zinc Co., 332 S. Mich. Ave., Chicago, Ill.
Mattheissen & Hegeler Zinc Co., La Salle, Ill.
The New Jersey Zinc Co., 160 Front St., N. Y.
The Platt Bros. & Co., Waterbury, Conn.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.

ZINC SULPHATE.

American Smelt. & Refg. Co., 120 Broadway, N. Y.
The Grasselli Chemical Co., Cleveland, O.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
The New Jersey Zinc Co., 160 Front St., N. Y.

Buyers of

CHROME ORE.

A. C. Daft, Oliver Bldg., Pittsburgh, Pa.
Debevoise-Anderson Co., 114 Liberty St., N. Y.
Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
Metal & Thermit Corp., 120 Broadway, N. Y.
Otis Steel Co., P.O. Box 694, Cleveland, O.

CHROME ORE. (Ctd.)

Philipp Bros., Inc., 233 Broadway, N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Frank Samuel & Co., Philadelphia, Pa.
 C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
 United States Nickel Co., New Brunswick, N. J.
 Alan Wood Iron & Steel Co., Philadelphia, Pa.
 The Youngstown Sheet & Tube Co., Youngstown, O.

COPPER BEARING MATERIAL.

The Ajax Metal Co., Philadelphia, Pa.
 The American Metal Co., Ltd., 61 Broadway, N. Y.
 American Smelt. & Refg. Co., 120 Broadway, N. Y.
 Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
 H. B. Barnard & Sons, 149 Leadenhall St.,
 London, E. C. 3, England.
 S. Birkenstein & Sons, Inc.,
 1054 W. North Ave., Chicago, Ill.
 Federated Metals Corp., 233 Broadway, N. Y.
 General Metals Refining Co., St. Louis, Mo.
 Girard Smelting & Refining Co. Philadelphia, Pa.
 Benj. Harris & Co., 21st & Loomis Sts., Chicago.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 Irvington Smelt. & Refg. Works, Irvington, N. J.
 Keystone Bronze Co., Pittsburgh, Pa.
 The Koblitz-Kohn Co., Cleveland, O.
 H. Kramer & Co., Loomis St. & 21st Pl. Chicago.
 Michigan Smelt. & Refg. Co., Detroit, Mich.
 The Nassau Smelting & Refining Works, Ltd.,
 603 West 29th St., N. Y.
 National Smelt. & Refg. Co., Detroit, Mich.
 Niagara Falls Smelt. & Refg. Corp., Buffalo, N. Y.
 Nichols Copper Co., 25 Broad St., N. Y.
 Philipp Bros. Inc., 233 Broadway, N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Arthur Seligman, 165 Broadway, N. Y.
 C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
 Tottenville Copper Co., Inc., Tottenville, N. Y.
 The Youngstown Sheet & Tube Co., Youngstown, O.

GOLD AND SILVER BEARING MATERIAL.

The American Metal Co., Ltd., 61 Broadway, N. Y.
 J. Bishop & Co. Platinum Works, Malvern, Pa.
 Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
 Int'l Minerals & Metals Corp., 61 Broadway, N. Y.

GOLD AND SILVER BEARING MATERIAL. (Ctd.)

Irvington Smelt. & Refg. Works, Irvington, N. J.
 Kastenhuber & Lehrfeld, 24 John St., N. Y.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Schwitter, Clover & Starkweather, Inc. Newark, N.J.

LEAD BEARING MATERIAL.

The American Metal Co., Ltd., 61 Broadway, N. Y.
 Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
 S. Birkenstein & Sons, Inc.,
 1054 W. North Ave., Chicago, Ill.
 Federated Metals Corp., 233 Broadway, N. Y.
 General Metals Refining Co., St. Louis, Mo.
 Girard Smelt. & Refg. Co., Philadelphia, Pa.
 Hoyt Metal Co., 111 Broadway, N. Y.
 Keystone Bronze Co., Pittsburgh, Pa.
 The Koblitz-Kohn Co., Cleveland, O.
 H. Kramer & Co., Loomis St. & 21st Pl., Chicago.
 Metallurgical & Chemical Corp., Matawan, N. J.
 Metals Refining Co., P.O. Box 138, Hammond, Ind.
 Michigan Smelt. & Refg. Co., Detroit, Mich.
 The Nassau Smelting & Refining Works, Ltd.,
 603 West 29th St., N. Y.
 National Smelt. & Refg. Co., Detroit, Mich.
 M. M. Pearlman & Co., Jefferson Bldg., Phila., Pa.
 Pennsylvania Smelt. Co., P.O. Box 594, Pittsburgh.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 Pope Trading Corp., 90 West St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
 Tottenville Copper Co., Inc., Tottenville, N. Y.
 U. S. Smelt., Refg. & Min. Co., 120 Broadway, N.Y.

METAL DROSSES, SKIMMINGS, RESIDUES.

The Ajax Metal Co., Philadelphia, Pa.
 Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
 H. B. Barnard & Sons, London, E. C. 3, England.
 S. Birkenstein & Sons, Inc.,
 1054 W. North Ave., Chicago, Ill.
 Federated Metals Corp., 233 Broadway, N. Y.
 General Metals Refining Co., St. Louis, Mo.
 General Smelt Co., Stock Exch. Bldg., Phila, Pa.
 Girard Smelt. & Refg. Co., Philadelphia, Pa.
 The Grasselli Chemical Co., Cleveland, O.
 Benj. Harris & Co., 21st & Loomis Sts., Chicago.
 Hoyt Metal Co., 111 Broadway, N. Y.

METAL DROSSES, SKIMM'GS, RESIDUES. (Ctd.)

Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
 The Koblitz-Kohn Co., Cleveland, O.
 H. Kramer & Co., Loomis St. & 21st Pl., Chicago.
 Metallurgical & Chemical Corp., Matawan, N. J.
 Metals Refining Co., P.O. Box 138, Hammond, Ind.
 Michigan Smelt. & Refg. Co., Detroit, Mich.
 The Nassau Smelting & Refining Works, Ltd.,
 603 West 29th St., N. Y.
 The National Smelting Co., Cleveland, O.
 National Smelt. & Refg. Co., Detroit, Mich.
 Philipp Bros., Inc., 233 Broadway, N. Y.
 M. M. Pearlman & Co., Jefferson Bldg., Phila., Pa.
 Pope Trading Corp., 90 West St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Richards Co., Inc., Battery Wharf, Boston, Mass.
 Societe Generale des Minerais, 31 Rue du Marais,
 Brussels, Belgium.
 Tottenville Copper Co., Inc., Tottenville, N. Y.

MOLYBDENUM ORES.

Debevoise-Anderson Co., 114 Liberty St., N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.

PLATINUM ORES AND SCRAP.

The American Metal Co., Ltd., 61 Broadway, N. Y.
 Balbach Smelt. & Refg. Co., 280 Broadway, N. Y.
 J. Bishop & Co. Platinum Works, Malvern, Pa.
 Irvington Smelt. & Refg. Works, Irvington, N. J.
 Kastenhuber & Lehrfeld, 24 John St., N. Y.
 Philipp Bros. Inc., 233 Broadway, N. Y.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
 R. & H. Platinum Works, 709 Sixth Ave., N. Y.
 Schwitter, Clover & Starkweather, Inc. Newark, N.J.
 C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
 Watson, Geach & Co., Inc., 56 Pine St., N. Y.
 The H. A. Wilson Co., 97 Chestnut St., Newark, N.J.

SCRAP STEEL.

Debevoise-Anderson Co., 114 Liberty St., N. Y.
 Hickman, Williams & Co., Inc., St. Louis, Mo.
 H. Hollesen, Inc., 17 Battery Place, N. Y.
 Inland Steel Co., 38 S. Dearborn St., Chicago, Ill.
 The M. N. Landay Co., Pittsburgh, Pa.
 The Mansfield Sheet & Tin Plate Co., Mansfield, O.
 Otis Steel Co., P.O. Box 694, Cleveland, O.
 Pittsburgh Steel Co., Pittsburgh, Pa.
 Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.

SCRAP STEEL. (Ctd.)

Republic Iron & Steel Co., Youngstown, O.
Frank Samuel & Co., Philadelphia, Pa.
Sharon Steel Hoop Co., Sharon, Pa.
Richard Thomas & Co., Ltd., Bush House,
Aldwych, London, W. C. 2, England.
H. N. Trimble, Oliver Bldg., Pittsburgh, Pa.
Alan Wood Iron & Steel Co., Philadelphia, Pa.
The Youngstown Sheet & Tube Co., Youngstown, O.

SILVER SULPHIDES. *

Schwitter, Clover & Starkweather, Inc. Newark, N.J.

TANTALUM ORES.

Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N.Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

TIN AND TERNE PLATE SCRAP.

S. Birkenstein & Sons, Inc.,
1054 W. North Ave., Chicago, Ill.
Federated Metals Corp., 233 Broadway, N. Y.
Hoyt Metal Co., 111 Broad way, N. Y.
Metal & Thermit Corp., 120 Broadway, N. Y.
Metals Refining Co., P.O. Box 138, Hammond, Ind.
The Nassau Smelting & Refining Works, Ltd.,
603 West 29th St., N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Tottenville Copper Co., Inc., Tottenville, N. Y.

TIN BEARING MATERIAL.

The Ajax Metal Co., Philadelphia, Pa.
The American Metal Co., Ltd., 61 Broadway, N. Y.
American Smelt. & Refg. Co., 120 Broadway, N.Y.
Federated Metals Corp., 233 Broadway, N. Y.
General Metals Refining Co., St. Louis, Mo.
Girard Smelt. & Refg. Co., Philadelphia, Pa.
Hoyt Metal Co., 111 Broadway, N. Y.
The Koblitz-Kohn Co., Cleveland, O.
H. Kramer & Co., Loomis St. & 21st Pl. Chicago.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
Metallurgical & Chemical Corp., Matawan, N. J.
Metals Refining Co., P.O. Box 138, Hammond, Ind.
Michigan Smelt. & Refg. Co., Detroit, Mich.
The Nassau Smelting & Refining Works, Ltd.,
603 West 29th St., N. Y.
National Smelt. & Refg. Co., Detroit, Mich.
Pope Trading Corp., 90 West St., N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Richards Co., Inc., Battery Wharf, Boston, Mass.

TIN BEARING MATERIAL. (Ctd.)

Tottenville Copper Co., Inc., Tottenville, N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

TUNGSTEN ORES.

A. C. Daft, Oliver Bldg., Pittsburgh, Pa.
Debevoise-Anderson Co., 114 Liberty St., N. Y.
Everitt & Co., Ltd., 40 Chapel St., Liverpool, Eng.
H. Hollesen, Inc., 17 Battery Place, N. Y.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
Metal & Thermit Corp., 120 Broadway, N. Y.
Ralph Meals Corp., 4601 Woolworth Bldg., N. Y.
Frank Samuel & Co., Philadelphia, Pa.
C. Tennant Sons & Co. of N. Y., 19 W. 44th St., N. Y.
Wah Chang Trading Corp., Woolworth Bldg., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

VANADIUM ORES.

Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Watson, Geach & Co., Inc., 56 Pine St., N. Y.

ZINC DROSS.

The American Metal Co., Ltd., 61 Broadway, N. Y.
American Smelt. & Refg. Co., 120 Broadway, N. Y.
H. B. Barnard & Sons, 149 Leadenhall St.,
London, E. C. 3, England.
S. Birkenstein & Sons, Inc.,
1054 W. North Ave., Chicago, Ill.
Debevoise-Anderson Co., 114 Liberty St., N. Y.
Federated Metals Corp., 233 Broadway, N. Y.
General Metals Refining Co., St. Louis, Mo.
General Smelting Co., Philadelphia, Pa.
Girard Smelt. & Refg. Co., Philadelphia, Pa.
Benj. Harris & Co., 21st & Loomis St., Chicago, Ill.
Int'l Minerals & Metals Corp., 61 Broadway, N. Y.
The Koblitz-Kohn Co., Cleveland, O.
P. & W. MacLellan, Ltd., Glasgow, Scotland.
The Nassau Smelting & Refining Works, Ltd.,
603 West 29th St., N. Y.
National Smelt. & Refg. Co., Detroit, Mich.
The New Jersey Zinc Co., 160 Front St., N. Y.
M. M. Pearlman & Co., Philadelphia, Pa.
Philipp Bros. Inc., 233 Broadway, N. Y.
Pope Trading Corp., 90 West St., N. Y.
Ralph Metals Corp., 4601 Woolworth Bldg., N. Y.
Suzuki & Co., 220 Broadway, N. Y.
Tottenville Copper Co., Inc., Tottenville, N. Y.

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