

# APPENDIX A

## SHOP CAPACITIES IN THE 1890s

The 1894 Directory of the American Iron and Steel Association was the first to provide annual capacity data for the larger bridge shops, and they provide a measure of the industry and each company's share. Unfortunately there is no issue closer to our termination date than the 1903 Supplement, corrected to January 1903. Material from that issue is included for companies named in this guide although some figures undoubtedly include plant expansions after 31 December 1900.

Annual Operating Capacities  
in units of 1,000 long tons

	1894	1896	1898	1903
<u>Alabama</u>				
Alabama Bridge and Boiler Works	-	-	1.5	-
Southern Bridge Company	-	0.5	1.0	1.0
<u>California</u>				
Judson Manufacturing Company	NR	NR	6.0	12.0
Pacific Rolling Mill Company	2.0	6.0	6.0	-
Phelps Manufacturing Company	NR	NR	NR	-
<u>Connecticut</u>				
Berlin Construction Company	-	-	-	6.0
Berlin Iron Bridge Company	10.0	12.0	12.0	(18.0)
<u>Delaware</u>				
Edge Moor Bridge Works	30.0	30.0	40.0	(30.0)
<u>Illinois</u>				
American Bridge Works	30.0	30.0	30.0	(24.0)
Chicago Bridge and Iron Company	15.0	10.0	10.0	12.0
Illinois Bridge and Iron Company	-	-	-	1.0
Joliet Bridge and Iron Company	-	-	5.0	10.0
Kenwood Bridge Company	2.4	6.5	6.5	10.0
Lane Bridge and Iron Works	6.0	-	-	-
Lassig Bridge and Iron Works	15.0	15.0	25.0	(54.0)
A. Lucas and Sons	-	-	-	3.0
Springfield Bridge and Iron Company	-	-	-	5.0
Universal Construction Company	-	-	12.0	-
Western Bridge Company	-	-	-	NR
<u>Indiana</u>				
Attica Bridge Company	-	-	-	1.5
Indiana Bridge Company	3.0	10.0	10.0	10.0
Indianapolis Bridge and Iron	-	-	6.0	6.0
Lafayette Bridge Company	NR	5.0	5.0	(3.6)
New Castle Bridge Company	-	-	-	5.0

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	1894	1896	1898	1903
<u>Indiana (continued)</u>				
Thatcher A. Parker	-	-	-	2.0
Rochester Bridge Company	-	-	-	0.7
Terre Haute Bridge Company	-	-	5.0	-
Wabash Bridge and Iron Company	-	NR	NR	7.5
<u>Iowa</u>				
Clinton Bridge and Iron Works	*5.5	*5.5	*5.5	10.0
Des Moines Bridge and Iron Works	-	-	-	4.0
Fair-Williams Bridge and Manufacturing Company	1.0	1.0	2.0	2.0
Marshalltown Bridge ...	-	NR	NR	2.5
<u>Kansas</u>				
Missouri Valley Bridge and Iron Works	20.0	12.0	12.0	12.0
<u>Kentucky</u>				
Louisville Bridge and Iron Company	7.5	7.5	7.5	7.5
<u>Maryland</u>				
Enterprise Iron Works	-	2.0	-	-
Maryland Steel Company	-	10.0	10.0	-
Structural Iron Company	-	-	5.0	-
<u>Massachusetts</u>				
Boston Bridge Works	10.0	10.0	10.0	15.0
Eastern Bridge and Structural Company	-	-	-	3.0
R.F. Hawkins Iron Works	4.0	4.0	4.0	4.0
New England Structural Company	-	-	7.0	17.0
Springfield Construction Company	-	-	3.0	6.0
<u>Michigan</u>				
Detroit Bridge and Iron Works	12.0	12.0	12.0	(16.8)
Jackson Bridge and Iron Company	2.0	2.0	-	-
<u>Minnesota</u>				
Gillette-Herzog Manufacturing Company	*6.5	7.0	10.0	(16.8)
St. Paul Foundry Company	-	-	-	7.0
<u>Missouri</u>				
Koken Iron Works	-	2.0	2.0	10.0
St. Joseph Bridge and Iron Company	1.8	1.8	1.8	-
Stupp Brothers Bridge and Iron Company	10.0	8.0	4.0	6.0
<u>New Jersey</u>				
Passaic Rolling Mill Company	15.0	13.5	24.0	60.0
Trenton Iron Works	24.0	24.0	30.0	(36.0)

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	1894	1896	1898	1903
<u>New York</u>				
Buffalo Bridge and Iron Works	6.0	7.5	7.5	(7.2)
Buffalo Structural Steel Company	-	-	-	6.0
J.B. and J.M. Cornell	-	-	-	50.0
Elmira Bridge Company, Ltd.	15.0	30.0	30.0	(31.8) (a)
Groton Bridge and Manufacturing Company	10.0	10.0	10.0	6.0
Havana Bridge Works	-	5.0	5.0	-
Hilton Bridge Construction Company	5.0	7.5	7.5	(4.8)
Horseheads Bridge Company	1.5	1.5	3.5	(a)
Jackson Architectural Iron Works	-	-	-	NR
Kellogg Iron Bridge Works	26.0	-	-	-
Lane Bridge Works	-	-	NR	1.0
Levering and Garrigues (b)	-	-	-	15.0
Milliken Brothers	-	-	-	36.0
Owego Bridge Company	NR	NR	8.0	9.6
Post and McCord	9.0	9.0	15.0	(30.0)
Rochester Bridge and Iron Works	12.0	12.0	12.0	(7.2)
Shepard Bridge Works	NR	-	-	-
<u>Ohio</u>				
Bellefontaine Bridge and Iron	-	NR	5.0	5.0
Brackett Bridge Company	10.0	10.0	10.0	10.0
Buchanan Bridge Company	NR	-	-	-
Canton Bridge Company	3.5	3.5	3.5	5.0
Champion Bridge Company	NR	2.0	3.0	3.0
Champion Iron Company	-	5.0	NR	NR
Iron Substructure Company	-	NR	5.0	5.0
King Bridge Company	18.0	20.0	20.0	30.0
Massillon Bridge Company	6.0	8.0	8.0	8.0
Mount Vernon Bridge Company	9.0	-	-	-
New Columbus Bridge Company	3.6	5.8	5.8	(4.8)
Oregonia Bridge Company	-	-	2.0	2.0
Portsmouth Structural Steel and Iron	-	-	NR	-
Rogers Iron Company	-	-	NR	1.0
L. Schreiber and Sons Company	-	-	NR	-
Stacey Manufacturing Company	NR	-	-	-
Standard Boiler and Bridge Company	NR	NR	-	-
Toledo Bridge Company	6.0	10.0	10.0	(36.0)
Variety Iron Works	*3.5	6.0	7.5	10.0
Wrought Iron Bridge Company	10.0	10.0	10.0	(12.0)
Youngstown Bridge Company	6.0	7.5	10.0	(14.4)
<u>Oregon</u>				
Portland Bridge and Building Company	-	-	-	NR
<u>Pennsylvania</u>				
Allentown Rollings Mills	-	3.0	3.0	3.0
Dauphin Bridge and Construction Company	-	-	6.0	5.0
Fort Pitt Bridge Company	-	-	12.0	30.0
Heyl and Patterson	-	-	-	4.8
Keystone Bridge Works	*18.5	35.0	50.0	(48.0)

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	1894	1896	1898	1903
<u>Pennsylvania (continued)</u>				
Keystone Structural Company	-	6.0	6.0	6.0
McClintic-Marshall: Pittsburgh	-	-	-	50.0
McClintic-Marshall: Pottstown	-	-	-	35.0
Pencoyd Iron Works	40.0	*45.0	50.0	(84.0)
Penn Bridge Company	5.0	5.0	5.0	10.0
Pennsylvania Steel Company	12.0	16.0	*27.5	*35.0
Philadelphia Bridge Works	*19.0	*19.0	*19.0	-
Phoenix Bridge Company	50.0	50.0	50.0	50.0
Pittsburgh Architectural Iron Works	-	*14.3	-	-
Pittsburgh Bridge Company	10.0	12.0	10.0	(18.0)
Pottsville Iron and Steel Company	7.5	7.5	7.5	-
Riter-Conley Manufacturing Company	-	-	-	10.0 (c)
William B. Scaife and Sons Company	-	-	-	30.0
Schultz Bridge Iron Company	10.0	10.0	10.0	(10.8)
Schuylkill Bridge: Denithorne	-	-	*0.8	-
Schuylkill Bridge: Shoemaker	-	-	-	10.0
Shiffler Bridge Company	10.0	12.0	15.0	(24.0) (d)
Union Bridge Company	*16.5	*16.5	25.0	(15.0)
<u>Tennessee</u>				
Converse Bridge Company	-	-	1.0	2.5
<u>Texas</u>				
Southwestern Bridge and Iron Company	bldg.	2.0	2.0	-
<u>Vermont</u>				
Vermont Construction Company	2.0	2.0	2.0	-
<u>Virginia</u>				
American Bridge and Iron Company	3.0	-	-	-
Virginia Bridge and Iron Company	-	4.0	4.0	10.0
<u>West Virginia</u>				
West Virginia Bridge (Vulcan)	NR	1.2	1.2	-
West Virginia Bridge and Construction	-	-	-	10.0
<u>Wisconsin</u>				
Milwaukee Bridge and Iron Works	4.0	8.0	8.0	(12.0)
Wisconsin Bridge and Iron Company	3.0	5.0	10.0	15.0
<b>TOTAL REPORTED</b>	<b>603.3</b>	<b>691.1</b>	<b>854.1</b>	<b>—</b>

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### NOTES

- Company not listed.

NR Company listed but capacity not recorded.

( ) Plant part of American Bridge. Smaller capacities may be result of elimination of duplicate facilities.

• Capacity reported as range (6,000 to 8,000 tons); the average is entered in table.

(a) 1903 capacity of Horseheads included in Elmira's.

(b) Previously located at Philadelphia, the office had been moved to New York City and the shop was at New Market, New Jersey.

(c) Listed in Directory as 100,000 tons. As this was twice the size of Keystone Bridge it has been assumed that a decimal error had been made.

(d) See Appendix C for comment about Shiffler's Walker Shop which is not included in this table.