

CURRENT INDUSTRIAL REPORTS SERIES

2008

MA331B — STEEL MILL PRODUCTS

DEFINITIONS AND SPECIAL INSTRUCTIONS

1. Scope of survey

This survey covers all known producers of steel mill products.

2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate report form for each location. If you have not received a separate form for each of your establishments, please call the contact shown on the report form or write to the U.S. Census Bureau for additional forms.

a. Quantity and value of shipments

The figures on quantity and value of shipments should include the physical shipments of all products sold, transferred to other establishments within your company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to your own branches should be assigned the same value as comparable sales to unaffiliated customers, i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture should not be included in comments.

Blast furnace and steel mills industry (NAICS 331111) Establishments engaged in manufacturing the following products should report: ingot (raw steel) and semifinished shapes (blooms, billets, slabs, etc.) (3311113); hot rolled sheet and strip, including tin mill products (3311115); hot rolled bars and bar shapes, plates, structural shapes and piling (3311117); wire made in plants producing wire rods or hot rolled bars (3311119); pipe and tubes made in plants producing semifinished shapes or plate (331111B); cold rolled steel sheet and strip made in plants producing hot rolled sheet or strip (331111D); cold finished steel bars and bar shapes made in plants producing hot rolled bars and bar shapes (331111F); and other steel mill products, except wire products (331111L).

Steel wire and related products industry (NAICS 331222) — Establishments drawing wire from purchased rods, bars, or wire and which may be engaged in the further manufacture of products made from wire. This survey will require quantity and value of shipments of wire shipped as wire (3312225) and quantity and value of shipments of eight selected wire products as listed in the item description.

Cold finishing of steel shapes industry (NAICS 331221) — Establishments engaged in manufacturing cold rolled sheet and strip from purchased hot rolled sheet (3312211) and establishments producing cold drawn steel bar shapes from purchased hot rolled steel bars (3312213).

Steel pipe and tubes industry (NAICS 331210) — Establishments engaged in the production of welded or seamless steel pipe and tubes from purchased material (3312100).

If you did not produce any of the products listed in the item description as a final product or as an intermediate step in the production of your final product and you did not operate a steel furnace, you are not included in this survey. Please indicate in the remarks section what products you do produce and return the form.

b. Columnar structure of report

SECTION IA — STEEL PRODUCTS SHIPPED (Item codes 1100 through 3999)

Columns (3) and (4); Total shipments including interplant transfers — The figures on quantity and value of shipments should include the physical shipments of all products sold, transferred to other establishments within your company, shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to your own branches should be assigned the same value as comparable sales to unaffiliated customers, i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture should not be included in shipments.

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DEFINITIONS AND SPECIAL EXPLANATIONS — Continued

SECTION IB — IMPORT RECEIPTS (Item code 5999)

Report receipts of all imported steel mill shapes by grade. Exclude domestic receipts. Receipts of mill shapes purchased from U.S. steel producing companies are considered domestic receipts unless the mill shapes were originally purchased by the U.S. producers from imports and were resold to secondary producers without further manufacture. Secondary producers should report the receipts of these materials as import receipts.

Column (1) — Report the sum of import receipts shown in columns (2), (3), and (4).

Column (2) — Report carbon steel.

Column (3) — Report alloy steel.

Column (4) — Report stainless steel.

SECTION II — PRODUCTION OF RAW STEEL BY TYPE OF FURNACE BY GRADE (Item codes 6100–6900) — Report total production of raw steel by type of furnace and by grade. If you do not have a steel furnace, please ignore this section.

3. Definitions

Report the items in accordance with the definitions used in the reports of the American Iron and Steel Institute (AISI). These definitions should be applied to what is reported as carbon, alloy, and stainless steel, as well as to the differentiation among sheet, strip, bars, etc. (Refer to "Instructions for Reporting Steel Shipment Statistics," volume 1, AISI 10 series.)

a. CARBON STEEL

All ferrous materials other than alloy and stainless which are usefully malleable and which contain by weight 2 percent or less of carbon. (In effect, all steel other than that complying with the definition for alloy or stainless.)

High strength steel (Carbon)

Flat-rolled of a thickness of less than 3 mm (approx. 1/8) and having a minimum yield point of 275 MPa (approx. 42 KSI) or of a thickness of 3 mm or more and having a minimum yield point of 355 MPa (approx. 56 KSI).

Note: In all carbon steels small quantities of certain residual elements, such as copper, nickel, molybdenum, chromium, etc., are unavoidably retained from raw materials. Those elements are considered as incidental.

b. ALLOY STEEL

Steels not complying with the definition of stainless steel and containing by weight one or more of the following elements in proportion shown:

0.3	percent or more of	aluminum
0.0008	percent or more of	boron
0.3	percent or more of	chromium
0.3	percent or more of	cobalt
0.4	percent or more of	copper
0.4	percent or more of	lead
1.65	percent or more of	manganese
0.08	percent or more of	molybdenum
0.3	percent or more of	nickel
0.06	percent or more of	niobium
0.6	percent or more of	silicon

Heat Resisting Steel

Alloy steels containing by weight less than 0.3 percent of carbon and 4 percent or more but less than 10.5 percent of chromium.

Tool Steel

Alloy steels which contain the following combinations of elements in the quantity by weight respectively indicated:

- (i) More than 1.2% carbon and more than 10.5% chromium; or
- (ii) Not less than 0.3% carbon and 1.25% or more but less than 10.5% chromium; or
- (iii) Not less than 0.85% carbon and 1% to 1.8% inclusive, manganese; or
- (iv) 0.9% to 1.2%, inclusive, chromium and 0.9% to 1.4%, inclusive, molybdenum; or
- (v) Not less than 0.5% carbon and not less than 3.5% molybdenum; or
- (vi) not less than 0.5% carbon and not less than 5.5% tungsten

Note: Include valve steel for reporting purposes.

c. STAINLESS STEEL

Alloy steels containing by weight 1.2 percent or less of carbon and 10.5 percent or more of chromium, with or without other elements and a minimum of 50 percent iron. However, all tool steel and valve steel should be excluded.

Also include any steel of an analysis which falls readily into one of the grade groups tabulated in tables 1 and 2 of the STEEL PRODUCTS MANUAL FOR TOOL STEEL dated September 1988.

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4. Comparability

Data reported in this survey should correspond to data reported in the Annual Survey of Manufactures form. The sum of values for item codes shown in column (a) should correspond to dollar values reported under product class codes indicated in column (b) below.

Current Industrial Reports (Form MA331B) Item codes (a)	Annual Survey of Manufactures Product class codes (b)
1110 through 1245 2110 through 2241 3110 through 3225	3311113
1323,1355,1360,1370,1385, 1390,1420,1430,1445,1450, 2321,2333,2375,2391,3335	3311115
1313 and 1314 1506 through 1546, 2314,2316,2318,2520,2530, 2535, 3320 and 3525	3311117
1711, 2701 and 3701 1741 through 1771, 2707, 3710 through 3740	3311119 3312225
1601, 2610 and 3601 1636 through 1696 2641 through 2649 3610 through 3660	331111B 3312100
1324,1397,2327,2393,3339 1325, 1396, 2326, 2392, 3338	3312211 331111D
1551,2525, and 3550 1550, 2524 and 3540	3312213 331111F
1575	331111L
1783 and 1788	3312221
1799	3312223 3312223
1779	3312227
1889 and 1890	3312229
1777	331222B

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REFERENCE LIST

FORM MA331B		STEEL MILL PRODUCTS			
Product code	Item code	Item description	Product code	Item code	Item description
		Section IA — STEEL PRODUCTS SHIPPED	33111171A0	1521	Light structurals, under 3"
			33111171B0	1546	Concrete reinforcing
			331111F110	1550	Cold finished bars made in hot bar and bar shapes prod. mills
		CARBON STEEL			Cold finished
3311113110	1110	Ingots	3312213110	1551	
			331111L100	1575	Rails, wheels, & track accessories
		Semifinished products			
3311113140	1210	Blooms, billets, sheet bars, tin mill bars, tube rounds, and skelp	331111B100	1601	Pipe and tubes:
3311113190	1230	Wire rods			Hot rolled pipes and tubes
3311113150	1245	Slabs			Cold rolled:
			3312100110	1636	Line Pipe:
			3312100120	1641	16" O.D. and under
			3312100130	1646	Over 16" O.D.
3311117110	1313	Finished products			Oil country goods
		Plates, cut lengths			Pressure tubing:
3311117120	1314	Plates, in coils	3312100150	1651	Seamless
			3312100160	1666	Welded
		Sheet:	33121001A0	1671	Mechanical tubing:
3311115110	1323	Hot rolled, including hot rolled bands	33121001B0	1686	Seamless
			33121001F0	1691	Welded
3312211110	1324	Cold rolled	33121001G0	1696	Structurals
331111D110	1325	Cold rolled from hot sheet and strip producing mill			Miscellaneous, including standard pipe
		Sheet and strip:			
		Galvanized:	3311119110	1711	Wire:
3311115120	1355	Hot dipped			Wire from hot rolled bars or rods producing mills
3311115130	1360	Electrolytic			Wire from purchased bars or rods
3311115140	1370	Electrical			Plain:
3311115150	1385	All other metallic coated, including long ternes	3312225110	1741	Flat wire
					Round wire:
		Strip:	3312225120	1742	Thermally treated:
3311115160	1390	Hot rolled			Under 1.5mm in diameter
331111D120	1396	Cold rolled from hot sheet and strip prod. mill	3312225130	1743	1.5mm or above
					Other round wire:
3312211120	1397	Cold rolled	3312225140	1744	Under 1.5mm in diameter
					1.5mm or above
		Tin mill products:	3312225150	1745	Other shape wire
33111151C0	1420	Black plate	3312225160	1746	
33111151D0	1430	Electrolytic and hot dipped tin plate			
		Tin free steel			Plated or coated with zinc:
33111151E0	1445	All other tin mill products, including short ternes and foil	3312225170	1763	Round wire:
33111151F0	1450		3312225180	1764	Under 1.5mm in diameter
			3312225190	1766	1.5mm or above
					Other shape wire, including flat wire
		Structural shapes (heavy):			Other coated wire:
3311117130	1506	Wide flange	33122251A0	1767	Flat wire
3311117140	1508	Standard	33122251B0	1768	Round wire
			33122251C0	1771	Other shape wire
33111171E0	1512	Sheet piling and bearing piles			
		Bars:			Wire products:
3311117190	1516	Hot rolled, except concrete reinforcing	3312221101	1783	Wire rope, cable, and strand:
			3312221201	1788	Wire rope and cable
					Wire forms and strand

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REFERENCE LIST – Continued

FORM MA331B					
Product code	Item code	Item description	Product code	Item code	Item description
		Section IA – STEEL PRODUCTS SHIPPED – Continued	3312213120	2525	Cold finished
3312223100	1799	Nails, staples, tacks, spikes, and brads	33111171F0 33111171G0	2530 2535	Tool steel: High speed Other than high speed
3312227100	1779	Fencing and fence gates	331111B140	2610	Pipe and tubes: Hot rolled pipes and tubes Cold rolled:
3312229110	1889	Woven wire products:	3312100140	2641	Oil country goods and line pipe
3312229112	1890	Woven wire netting	3312100170	2643	Pressure tubing
		Other woven wire products	33121001C0	2646	Mechanical tubing
331222B100	1777	Other wire products	33121001H0	2649	Miscellaneous including standard and structural
		ALLOY STEEL			Wire:
3311113120	2110	Ingots	33111191D0	2701	From hot rolled bars or rods producing mills
		Semifinished products	33122251D0	2707	Wire, plain or coated
3311113160	2237	Blooms, billets, sheet bars, tube rounds, and skelp			STAINLESS STEEL
33111131A0	2239	Wire rods	3311113130	3110	Ingots
3311113170	2241	Slabs			Semifinished products
		Finished products	3311113180	3220	Blooms, billets, slabs, sheet bars, tube rounds, and skelp
3311117150	2314	Plates, cut lengths	33111131B0	3225	Wire rods
3311117160	2316	Plates, in coils			Finished products
3311117170	2318	Structural shapes, 3" and under	3311117180	3320	Plates and structurals
		Sheet:			Sheet and strip:
3311115170	2321	Hot rolled	33111151B0	3335	Hot rolled
331111D130	2326	Cold rolled from hot sheet and strip producing mill	331111D150	3338	Cold rolled from hot sheet and strip producing mill
3312211130	2327	Cold rolled	3312211150	3339	Cold rolled
		Sheet and Strip:			Bars:
3311115180	2333	Galvanized hot dipped	33111171D0	3525	Hot rolled
3311115190	2375	All other metallic coated, including electrolytic	331111F130	3540	Cold finished bars made in hot bar and bar shapes prod. mill
		Strip:	3312213130	3550	Cold finished
33111151A0	2391	Hot rolled			Pipe and tubes:
331111D140	2392	Cold rolled from hot sheet and strip producing mill	331111B180	3601	From hot rolled bars or rods producing mills
3312211140	2393	Cold rolled			Cold rolled:
		Bars:			Pressure tubing:
33111171C0	2520	Hot rolled, including structural shapes under 3"	3312100180	3610	Seamless
331111F120	2524	Cold finished bars made in hot bar and bar shapes prod. mills	3312100190	3620	Welded
			33121001D0	3630	Mechanical tubing:
			33121001E0	3640	Seamless
			33121001J0	3660	Welded
					Pipe and tubes, other

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REFERENCE LIST – Continued

FORM MA331B					
Product code	Item code	Item description	Product code	Item code	Item description
		Section IA – STEEL PRODUCTS SHIPPED – Continued	XXX	5999	SECTION IB – IMPORT RECEIPTS OF STEEL MILL PRODUCTS BY GRADE
33111191E0	3701	Wire: From hot rolled bars or rods producing mills	XXX	6100	SECTION II – PRODUCTION OF RAW STEEL BY TYPE OF FURNACE & GRADE Basic oxygen
33122251E0	3710	Round wire: Under 0.75mm in diameter	XXX	6205	Open hearth
33122251F0	3720	0.75mm to under 1.5mm	XXX	6500	Electric
33122251G0	3730	1.5mm and above	XXX	6700	Other – Specify
33122251H0	3740	Other shape wire, including flat wire	XXX	6900	TOTAL PRODUCTION OF RAW STEEL BY TYPE OF FURNACE

NOTES: