

# 2006 Minerals Yearbook

### **IRON AND STEEL SCRAP**

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Iron and steel scrap is a vital raw material for the production of new steel and cast-iron products. The steelmaking and foundry industries in the United States are highly dependent upon the ready availability of scrap from manufacturing operations and from the recovery of products that are no longer used or needed. The steel industry has been recycling steel scrap for more than 150 years. Steel Business Briefing, Ltd. (2007, p. 28) reported that 98 steel-producing plants used electric arc furnaces (EAF), which consumed ferrous scrap, and accounted for about 43% of the total raw steel produced in 2006. Consistent with international usage and Federal Government policy, the U.S. Geological Survey (USGS) reports all data on iron and steel in metric units, unless otherwise noted.

Steel scrap recycling conserves energy, landfill space, and raw materials. In 2006, the domestic steel industry recycled or exported for recycling almost 73 million metric tons (Mt) of appliances, automobiles, cans, construction materials, and other steel products (Bill Heenan, President, Steel Recycling Institute, unpub. data, December 18, 2007). This resulted in an overall recycling rate of nearly 69% (Steel Recycling Institute, 2007c). The remelting of scrap requires much less energy than does the production of iron and steel products from iron ore. Each year, steel recycling saves the energy equivalent of the electrical power needed for 1 year by approximately one-fifth of the houses in the United States (about 18 million houses). Consumption of iron and steel scrap by remelting reduces the burden on landfill disposal facilities and prevents the accumulation of abandoned steel products in the environment.

In the United States, the primary source of obsolete steel is the automobile (Rich Tavoletti, Marketing Manager, American Iron and Steel Institute, unpub. data, July 2002). By weight, the typical car consists of about 65% iron and steel. The steel used in car bodies is made of about 25% recycled steel (Steel Recycling Institute, 2007a). The steel industry recovered and recycled more than 14 Mt of iron and steel automobile scrap in 2005. The recycling rate of automobile scrap steel was 104% in 2006, an increase of almost 2% since 2005. A recycling rate greater than 100% is a result of the steel industry recycling more steel from automobiles than was used in the production of new vehicles.

The recycling rate of obsolete appliance scrap had increased to a high of 90% in 2005 and 2006 from 20% in 1988 (Steel Recycling Institute, 2007b). The most recently available data show that during 2005, about 2.75 Mt of steel was recovered from recycled appliances, an increase of nearly 6% compared with that of 2004 (Bill Heenan, President, Steel Recycling Institute, unpub. data, May 6, 2006). The typical appliance consists of about 75% steel, and the steel used in appliances is made with a minimum of 25% recycled steel (Steel Recycling Institute, 2007b). The recycling rate of steel cans increased

to 63% in 2005 and 2006 from 16% in 1988 (Steel Recycling Institute, 2007c). The estimated rate of recycling of structural beams and plates in 2004, 2005, and 2006 was almost 98%, an increase from 96% in 2003. Reinforcement bar and other materials increased to 65% in 2005 and 2006 from 63% in 2004 (Steel Recycling Institute, 2007c). Currently, about 2% of homes being built in the United States use 100% steel framing, whereas 10% use some steel framing.

Minimills, in which EAFs are used, consumed greater quantities of direct-reduced iron (DRI) to improve steel quality, and integrated steelmakers continued to use small quantities of DRI in blast furnaces as a process coolant. Minimills often used a feed mix that has equal proportions of DRI, pig iron, and scrap. Raw steel production in the U.S. steel industry increased by 3.5% during 2006, and DRI production increased by 9% (American Iron and Steel Institute, 2006, p. 75; Midrex Technologies, 2007).

#### **Environment**

Almost 68 million mercury-bearing switches are in vehicles in the United States, which when shredded and recycled in electric arc furnaces would release mercury into the atmosphere if the switches were not removed prior to melting. Steelmakers and vehicle makers agreed to remove 4 million switches during the next 3 years from vehicles before they are scrapped to recover the contained mercury (Eilperin, 2006). The program is expected to reduce the country's annual mercury pollution by at least 5% during the next 15 years. Prior to this agreement, 10 States—Arkansas, Illinois, Iowa, Maine, Massachusetts, New Jersey, North Carolina, Rhode Island, South Carolina, and Utah—had adopted programs to remove these switches.

#### Consumption

Domestic data for ferrous scrap were derived from voluntary monthly or annual surveys of U.S. scrap-consuming operations by the USGS. About 34% of the known manufacturers of pig iron and raw steel responded to the surveys. Their responses represented about 55% of estimated total scrap consumption by this class of consumers. The remaining 45% of scrap consumption was estimated based on prior reports. Of the iron foundries, manufacturers of steel castings, and miscellaneous users, about 43% of the surveyed establishments responded to the annual survey, which represented about 28% of estimated scrap consumption by this class of consumers. Total consumption for these two classes of consumers was estimated using statistical methods and prior reports. Actual survey data accounted for about 28% of total estimated scrap consumption by all classes of scrap consumers.

In 2006, brokers, dealers, and other outside sources supplied domestic consumers with 53.2 Mt of all types of ferrous scrap at an estimated delivered value of \$11.6 billion, and exported 14.9 Mt (excluding used rails for rerolling and other uses and ships, boats, and other vessels for scrapping) valued at \$4.2 billion (tables 1, 8, 11). In 2005, domestic consumers received 50.8 Mt of scrap steel at an estimated delivered value of more than \$9.8 billion; exports totaled 13.0 Mt, valued at \$3.4 billion. Raw steel production was 98.2 Mt in 2006 compared with 94.9 Mt in 2005 (American Iron and Steel Institute, 2006, p. 73). The share of raw steel produced by electric furnaces was 43% and by the basic oxygen furnaces was 57%. In 2006, continuous cast steel production represented 97% of total raw steel production; this was about the same as that of 2005. Raw steel production capability increased to 124 Mt, up from 120 Mt in 2005.

Steel mills accounted for 85% of all scrap received from brokers, dealers, and other outside sources; iron foundries and miscellaneous users received 12%; and steel foundries received 2% (table 1). Apparent total domestic consumption of ferrous scrap was 50.6 Mt of net receipts (total receipts minus shipments) and 12.2 Mt of home scrap (table 2). Stocks of ferrous scrap at consumer plants decreased by 7% to 4.7 Mt (table 1). Total domestic consumption was almost 66 Mt, about the same as that of 2005 (table 1). The total market for U.S.-produced scrap (net receipts plus exports minus imports) was 63.3 Mt, compared with 60.0 (revised) in 2005 (table 1). Feedstock used in electric furnaces by all iron and steel product manufacturers comprised scrap, 92%; pig iron, 6%; and DRI, 2% (table 4). Total consumption of DRI was 12% less than that of 2005 (table 1). Net shipments of all grades of steel mill products were about 99.3 Mt, which was an increase of 4.3% from the 95.2 Mt shipped in 2005 (American Iron and Steel Institute, 2006, p. 25).

#### **Prices**

The average composite delivered price of No. 1 heavy-melting steel scrap, calculated from prices per long ton published monthly by American Metal Market, was \$218.91 per metric ton. The price ranged from a low of \$194.13 per ton in August to a high of \$243.47 per ton in June (table 8). The average composite delivered price of No. 1 heavy-melting steel scrap, calculated from prices per long ton published weekly in Iron Age Scrap Price Bulletin, was \$214.02 per metric ton; the price ranged from a low of \$192.24 per ton in August to a high of \$238.47 per ton in June.

Based on weekly quotations by Iron Age Scrap Price Bulletin for 18-8 (18% chromium, 8% nickel) stainless steel scrap (bundles and solids) delivered to consumers in the Pittsburgh, PA, area, the average price was \$2,124 per ton, an increase of 43% more than that of 2005.

The unit value of total ferrous scrap exports (excluding used rails for rerolling and other uses, and ships, boats, and other vessels for scrapping) increased by 7.4% to about \$285 per ton compared with that of 2005 (table 11). The unit value of total imports, which was about \$262 per ton, was about 8% more than that of 2005 (table 14).

#### **Foreign Trade**

Foreign trade valuation continued to be reported on a free-alongside-ship basis for exports and on a customs-value basis for imports. In 2006, the U.S. trade surplus for all classes of ferrous scrap (including used rails for rerolling and other uses and ships, boats, and other vessels for scrapping) was 9.9 Mt valued at \$2.96 billion (tables 11, 14). This represented an increase of 10% in quantity and an increase of 19% in value compared with the 2005 surplus of 9.0 Mt valued at \$2.49 billion.

Total U.S. exports of carbon steel and cast-iron scrap (excluding alloy steel; ships, boats, and other vessels for scrapping; stainless steel; and used rails for rerolling and other uses) went to 75 countries (3 more than in 2005) and totaled 11.2 Mt (a 4% increase) valued at \$2.66 billion (a 15% increase) for an average of \$237 per ton (an 11% increase) (U.S. Census Bureau, unpub. data, 2006). The largest tonnages went to Turkey, 2.5 Mt; China, 2.0 Mt; Mexico, 1.1 Mt; Canada, 1.0 Mt; and Malaysia, 1.0 Mt. These five countries received 67% of the total quantity, valued at \$1.9 billion, which accounted for 72% of the total value.

Total U.S. exports of stainless steel scrap went to 52 countries (3 less than in 2005) and consisted of 506,307 metric tons (t) (16% less than in 2005) valued at \$716 million (a 3% increase) for an average of \$1,415 per ton (22% more than in 2005) (U.S. Census Bureau, unpub. data, 2006). The largest tonnages went to China, 184,438 t; Taiwan, 94,009 t; Finland, 49,872 t; and Canada, 32,127 t. These countries received 71% of the total quantity valued at \$457 million, which was 64% of the total value.

U.S. exports of alloy steel scrap (excluding stainless steel) were shipped to 53 countries (10 more than in 2005) and consisted of 2.4 Mt (a 50% increase) valued at \$874 million (a 90% increase) for an average of \$371 per ton (a 27% increase) (U.S. Census Bureau, unpub. data, 2006). The largest tonnages went to China, 1.28 Mt, and Canada, 0.5 Mt. These countries received 74% of the total quantity, valued at \$722 million, which accounted for 82% of the total value.

#### World Review

Iron and steel scrap is an important raw material for the steel and foundry industries. Because scrap comes from such sources as discarded cars and consumer durables, industrial machinery, manufacturing operations, and old buildings, the relatively mature industrialized economies are generally the main exporters of scrap to lesser developed steelmaking countries.

The United States exported the most iron and steel scrap in 2005, followed by Russia, Japan, and Germany (International Iron and Steel Institute, 2006, p. 95). The six leading significant importing nations were, in decreasing order of import tonnage, Turkey, China, Spain, Republic of Korea, Italy, and Germany (International Iron and Steel Institute, 2006, p. 98).

#### Outlook

Because of the close interdependence of the steelmaking and ferrous scrap industries, forecast of the global steel industry in the context of the global economy will serve as the bellwether of the scrap industry.

The global economy was projected to grow by 5.2% in 2007 and 4.8% in 2008, according to the International Monetary Fund (IMF) (International Monetary Fund, 2007). The U.S. gross domestic product (GDP) was projected to increase 2.1% in 2007 and 3.0% in 2008, according to the World Bank (World Bank, The, 2007); although the IMF expected the U.S. GDP to grow by only 1.9% in 2008 (International Monetary Fund, 2007). The IMF expected the economy of China to grow by 10% in 2008, after growth of 10.4% in 2007, as estimated by the World Bank.

The global steel industry was expected to continue to have strong years ahead, with apparent steel use rising 6.8% during 2007 and 2008, according to the International Iron and Steel Institute (2007). Brazil, Russia, India, and China (BRIC countries), which accounted for about 41% of global steel consumption in 2006, were expected to increase apparent steel use by 12.8% in 2007 and 11.1% in 2008. The BRIC countries will account for 77% of global apparent steel use in 2007 and 71% in 2008.

The Organisation for Economic Cooperation and Development forecast that global raw steelmaking capacity would increase to more than 1.44 billion metric tons per year (Gt/yr) in 2007 from 1.40 Gt/yr in 2005 (Organisation for Economic Cooperation and Development, 2005). China accounted for most of this increase—449 Mt in 2007 from 431 Mt in 2006.

Global steel production may reach 1.44 Gt in 2008 (International Iron and Steel Institute, 2007). Economic activity in China, the world's leading steel producer, continued to be an important influence on the world economy and steel markets. China's steel production was 419 Mt in 2006, up from 353 Mt in 2005, and would be an estimated 482 Mt in 2007, according to an optimistic International Iron and Steel Institute.

Global consumption of finished steel products was estimated to increase 6.8% to 1,279 Mt in 2008 from 1,198 Mt in 2007. Demand in the United States was expected to increase in 2007 by 6.0%, and increase in 2008 by 3.8%; in the European Union to increase 3.9% and 1.5%, respectively; in Russia and Ukraine to increase 25% and 17%, and 9.3% and 9.0%, respectively; and in India to increase 14% and 12%, respectively. China's steel-product consumption was expected to be 398 Mt, 33% of world demand in 2007 (International Iron and Steel Institute, 2007).

Because the primary source of obsolete steel is the automobile, a growing world population and increased demand for vehicles in developing countries are expected to contribute to a dramatic rise in the amount of vehicle scrap created in the next 25 years, according to the Oxford Brookes University in the United Kingdom (Blogtoplist, 2007). More vehicles will be produced in the next 25 years than in the entire history of the motor industry.

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### TABLE 1 SALIENT U.S. IRON AND STEEL SCRAP, PIG IRON, AND DIRECT-REDUCED IRON STATISTICS $^{\rm I}$

(Thousand metric tons and thousand dollars)

	2002	2003	2004	2005	2006
Manufacturers of pig iron and raw steel and castings: <sup>2</sup>	_				
Ferrous scrap consumption	_ 56,400	55,200	57,100	55,000 <sup>r</sup>	54,500
Pig iron consumption	_ 42,500	39,700	38,000	36,900	36,700
Direct-reduced iron consumption	_ 2,230	1,790	1,490	1,740	1,530
Net receipts of ferrous scrap <sup>3</sup>	_ 43,600	42,700	45,800 <sup>r</sup>	43,600 <sup>r</sup>	45,300
Home scrap production <sup>4</sup>	12,700	12,600	11,600	11,400 <sup>r</sup>	9,120
Ending stocks of ferrous scrap, December 31	_ 4,360	4,070	4,880	4,430 <sup>r</sup>	3,880
Manufacturers of steel castings: <sup>5</sup>	_				
Ferrous scrap consumption	1,900	1,130	1,310	1,810	1,640
Pig iron consumption	_ 34	31	94	89	56
Net receipts of ferrous scrap <sup>3</sup>	_ 1,160	761	972	1,060	1,320
Home scrap production <sup>4</sup>	717	361	326	743	319
Ending stocks of ferrous scrap, December 31	_ 173	88	80	85	79
Iron foundries and miscellaneous users: <sup>5</sup>	_				
Ferrous scrap consumption	11,200	8,720	8,490	8,670 <sup>r</sup>	9,370
Pig iron consumption	1,280	1,030	1,020	1,080 <sup>r</sup>	857
Direct-reduced iron consumption	13	4	4	3	4
Net receipts of ferrous scrap <sup>3</sup>	7,270	6,300	6,320	6,130 <sup>r</sup>	6,580
Home scrap production <sup>4</sup>	3,760	2,430	2,370	2,870 °	3,010
Ending stocks of ferrous scrap, December 31	401	251	459	585 <sup>r</sup>	784
Total, all manufacturing types:					
Ferrous scrap consumption	69,500	65,000	66,900	65,500 <sup>r</sup>	65,600
Pig iron consumption	43,800	40,800	39,100	38,100 r	37,600
Direct-reduced iron consumption	2,250	1,790	1,500	1,750	1,540
Net receipts of ferrous scrap <sup>3</sup>	52,100	49,800	53,100	50,800 <sup>r</sup>	53,200
Home scrap production <sup>4</sup>	17,200	15,400	14,300	15,000 <sup>r</sup>	12,500
Ending stocks, December 31:		,	- 1,	,	,
Ferrous scrap at consumer plants	4,930	4,410	5,420	5,100 <sup>r</sup>	4,740
Pig iron at consumer and supplier plants	- 754	381	722	665	701
Direct-reduced iron at consumer plants	269	345	136	263	320
Exports: <sup>6</sup>		3.13	130	203	320
Ferrous scrap (includes tinplate and terneplate): <sup>7</sup>	_				
Quantity	8,950	10,800	11,800	13,000	14,900
Value	1,290,000	1,940,000	2,910,000	3,430,000	4,230,000
Pig iron, all grades:	_ 1,290,000	1,940,000	2,910,000	3,430,000	4,230,000
Quantity	- 34	86	48	51	813
Value	- 4,910	8,850	6,690	8,110	8,750
Direct-reduced iron, steelmaking grade:	_ 4,910	0,030	0,090	6,110	8,730
	- 1	_	12	(0)	(0)
Quantity	_ 1	5	13	(8)	(8)
Value	_ 100	525	1,360	16	11
Imports for consumption: <sup>6</sup>	_				
Ferrous scrap (includes tinplate and terneplate): <sup>7</sup>	-	2 400	1.660	2010	4.000
Quantity	3,130	3,480	4,660	3,840	4,820
Value	_ 376,000	511,000	1,230,000	909,000	1,250,000
Pig iron, all grades:	_				
Quantity	_ 4,620	3,890	6,400	6,030	6,730
Value	_ 527,000	571,000	1,360,000	1,580,000	1,760,000
Direct-reduced iron, steelmaking grade:	_				
Quantity	_ 2,010	1,940	2,450	2,170	2,610
Value	195,000	242,000	463,000	361,000	417,000

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<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Includes manufacturers of raw steel that also produce steel castings.

<sup>&</sup>lt;sup>3</sup>Net receipts of scrap is defined as receipts from brokers, dealers, and other outside sources plus receipts from other company-owned plants minus shipments.

<sup>&</sup>lt;sup>4</sup>Home scrap production includes recirculating scrap that results from current operations and obsolete home scrap.

<sup>&</sup>lt;sup>5</sup>Some consumers in the "Manufacturers of steel castings" category also produce iron castings; some consumers in the "Iron foundries and miscellaneous users" category also produce steel castings.

<sup>&</sup>lt;sup>6</sup>Data from U.S. Census Bureau. Export valuation is free alongside ship, and import valuation is customs value.

<sup>&</sup>lt;sup>7</sup>Excludes used rails for rerolling and other uses and ships, boats, and other vessels for scrapping.

<sup>&</sup>lt;sup>8</sup>Less than ½ unit.

TABLE 2 U.S. CONSUMER RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS, AND STOCKS OF IRON AND STEEL SCRAP IN 2006, BY GRADE  $^{\rm l}$ 

	Receipts From brokers,	From other	Production of hor Recirculating	me scrap	Consumption		Ending
	dealers, and other	company-owned	scrap from current	Obsolete	of purchased	Shipments	stocks,
Grade	outside sources	plants	operations	scrap <sup>2</sup>	and home scrap	of scrap	December 31
Manufacturers of pig iron and raw steel		-	<del>-</del>	1			
and castings:							
Carbon steel:							
Low-phosphorus plate and punchings	354	W	517		698	71	131
Cut structural and plate	3,430	150	588		4,040	51	247
No. 1 heavy-melting steel	4,870	113	1,840	20	6,730	203	490
No. 2 heavy-melting steel	5,710	56	350	W	6,030	24	516
No. 1 and electric furnace bundles	3,940	57	W		4,530	117	280
No. 2 and all other bundles	867	W	W		889	(3)	37
Electric furnace, 1 foot and under	-						
(not bundles)	W		W		W	W	W
Railroad rails	211	W	W		273	W	11
Turnings and borings	1,980	88	59	W	2,190	7	81
Slag scrap	811	106	1,140		1,610	477	111
Shredded or fragmentized	10,200	1,350	W	W	12,300		611
No. 1 busheling	4,790	52	217		5,010	5	347
Steel cans, post consumer	135				149	W	4
All other carbon steel scrap	2,770	238	1,530	W	4,380	160	366
Stainless steel scrap	1,050	65	351		1,500	2	56
Alloy steel (except stainless)	122	10	431		549	19	19
Ingot mold and stool scrap	. 122		W	83	61	88	13
Machinery and cupola cast iron	. 6		W	W	5	W	W
Cast-iron borings	343		W		327	4	24
Motor blocks	. 14				16		W
Other iron scrap	875	70	262		1,130	90	382
Other mixed scrap	1,710	55	272		2,030	21	144
Total	44,300	2,440	8,930	195	54,500	1,410	3,880
Manufacturers of steel castings:	44,300	2,440	6,930	193	34,300	1,410	3,000
	-						
Carbon steel:  Low-phosphorus plate and punchings	562	W	68	(3)	629	(3)	30
Cut structural and plate	163	W	8	W	174	W	30
	-				38		
No. 1 heavy-melting steel	33 W		W		38 W		3 W
No. 2 heavy-melting steel							
No. 1 and electric furnace bundles	W				W		W
No. 2 and all other bundles	<del></del>						
Electric furnace, 1 foot and under			2		0		(2)
(not bundles)	. 6		3		8		(3)
Railroad rails	. W		W		W		W
Turnings and borings	. 30		1	W	38	W	1
Slag scrap	. W		W		185		(3)
Shredded or fragmentized	. 89				89		1
No. 1 busheling	. 38				38	W	1
Steel cans, post consumer	<del></del>			W		W	
All other carbon steel scrap	. 47		99		145	W	4
Stainless steel scrap	. 23	W	24	W	48		24
Alloy steel (except stainless)	. 36	W	32	W	70		6
Ingot mold and stool scrap	W		W		W	W	W
Machinery and cupola cast iron							
Cast-iron borings	W		W		W		W
Motor blocks	W				W		
Other iron scrap	. 1		1		2		
Other mixed scrap	35		W	14	50	1	W
Total	1,310	5	305	14	1,640	2	79

See footnotes at end of table.

TABLE 2—Continued U.S. CONSUMER RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS, AND STOCKS OF IRON AND STEEL SCRAP IN 2006, BY GRADE<sup>1</sup>

	Receipts	of scrap	Production of home scrap				
	From brokers,	From other	Recirculating		Consumption		Ending
	dealers, and other	company-owned	scrap from current	Obsolete	of purchased	Shipments	stocks,
Grade	outside sources	plants	operations	scrap <sup>2</sup>	and home scrap	of scrap	December 31
Iron foundries and miscellaneous users:		*	*		*	-	
Carbon steel:	-						
Low-phosphorus plate and punchings	696	2	180	3	856	23	114
Cut structural and plate	915	31	44	W	995	2	27
No. 1 heavy-melting steel	147	2	W		164		56
No. 2 heavy-melting steel	281		W		314		2
No. 1 and electric furnace bundles	92				59		37
No. 2 and all other bundles	61		W		58	W	W
Electric furnace, 1 foot and under							• • • • • • • • • • • • • • • • • • • •
(not bundles)	93		(3)		94		1
Railroad rails	. 54	W	34	W	83	5	3
Turnings and borings	122		(3)		121	1	3
	- 122 W		13		W	W	W
Slag scrap Shredded or fragmentized	1,110		W W		1,090		50
No. 1 busheling	510	W			1,090 494	1	44
	-	W	18	(3)			
Steel cans, post consumer	. W		(3)	 W/	W	(2)	(3)
All other carbon steel scrap	. 52		57	W	109	(3)	3
Stainless steel scrap	2			W	2		
Alloy steel (except stainless)	1,290		319		1,610	11	(3)
Ingot mold and stool scrap	. 53	W	15		68	W	9
Machinery and cupola cast iron	507	W	172	W	655	34	217
Cast-iron borings	47	37	11	W	93	2	1
Motor blocks	. 264	W	565		835	W	6
Other iron scrap	. 135	23	1,470	3	1,470	13	201
Other mixed scrap	115	W	46	W	178	1	6
Total	6,550	124	2,990	16	9,370	102	784
Grand total, all manufacturing types:							
Carbon steel:	-						
Low-phosphorus plate and punchings	1,610	5	765	3	2,180	95	275
Cut structural and plate	4,510	183	640	W	5,210	53	278
No. 1 heavy-melting steel	5,050	115	1,860	20	6,940	203	548
No. 2 heavy-melting steel	6,010	56	382	W	6,360	24	519
No. 1 and electric furnace bundles	4,030	57	W		4,590	117	317
No. 2 and all other bundles	928	W	2		948	3	40
Electric furnace, 1 foot and under							
(not bundles)	180		103		219	W	4
Railroad rails	283	W	130	W	428	5	16
Turnings and borings	2,130	88	67	W	2,350	8	84
Slag scrap	1,000	106	1,150		1,810	479	112
Shredded or fragmentized	11,400	1,350	332	W	13,500	(3)	662
No. 1 busheling	5,340	52	234	(3)	5,540	6	392
Steel cans, post consumer	137		(3)	W	152	W	4
All other carbon steel scrap	2,870	238	1,680	3	4,630	161	373
Stainless steel scrap	1,080	65	376	W	1,550	3	81
Alloy steel (except stainless)	1,450	12	782	W	2,230	30	25
Ingot mold and stool scrap	. 54	W	93	83	129	88	22
Machinery and cupola cast iron	513	W	174	9	660	35	220
Cast-iron borings	397	37	11	W	426	6	25
Motor blocks	305	W	565		877	W	8
Other iron scrap	1,010	93	1,730	3	2,610	103	
Other mixed scrap	-		320		2,260		583
	1,860	75		225		1 510	153
Total	52,100	2,570	12,200	225	65,600	1,510	4,740

W Withheld to avoid disclosing company proprietary data. -- Zero.

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Obsolete home scrap includes ingot molds, stools, and scrap from old equipment and buildings.

<sup>&</sup>lt;sup>3</sup>Less than ½ unit.

TABLE 3 U.S. CONSUMER RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS, AND STOCKS OF PIG IRON AND DIRECT-REDUCED IRON IN  $2006^1$ 

					Stocks,
	Receipts	Production	Consumption	Shipments	December 31
Manufacturers of pig iron, raw steel, and castings:					
Pig iron	5,650 <sup>2</sup>	31,100	36,700	458	652
Direct-reduced iron (DRI)	1,320 3	W	1,530	13	319
Manufacturers of steel castings:					
Pig iron	55	(4)	56	(4)	2
DRI	W		W		W
Iron foundries and miscellaneous users:					
Pig iron	928	2	857	71	49
DRI	W	W	4		1
Total, all manufacturing types:					
Pig iron	6,630	31,100	37,600	529	701
DRI	1,330	W	1,540	13	320

W Withheld to avoid disclosing company proprietary data. -- Zero.

TABLE 4 U.S. CONSUMPTION OF IRON AND STEEL SCRAP, PIG IRON, AND DIRECT-REDUCED IRON IN 2006, BY TYPE OF FURNACE OR OTHER USE  $^{\rm l}$ 

#### (Thousand metric tons)

		urers of pig eel and cast		Manufacturers of steel castings			oundries ar laneous us		Total, all manufacturing types			
		Pig			Pig			Pig			Pig	
	Scrap	iron	$DRI^2$	Scrap	iron	$DRI^2$	Scrap	iron	$DRI^2$	Scrap	iron	$DRI^2$
Blast furnace	2,510		308				3			2,510		308
Basic oxygen process	10,000	33,700	348					2		10,000	33,800	348
Electric furnace	41,800	2,910	875	1,520	37		4,540	434	2	47,800	3,380	877
Cupola furnace	92			117	19		4,820	416	3	5,030	435	3
Other <sup>3</sup>	W						W	W		W	W	
Direct castings <sup>4</sup>		36									36	
Total	54,500	36,700	1,530	1,640	56		9,370	857	5	65,600	37,600	1,540

W Withheld to avoid disclosing company proprietary data. -- Zero.

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Includes 1.49 million metric tons (Mt) purchased by electric furnace steel producers.

<sup>&</sup>lt;sup>3</sup>Includes 1.29 Mt purchased by integrated steel producers.

<sup>&</sup>lt;sup>4</sup>Less than ½ unit.

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Direct-reduced iron.

<sup>&</sup>lt;sup>3</sup>Includes air furnaces.

<sup>&</sup>lt;sup>4</sup>Includes ingot molds and stools.

### TABLE 5 IRON AND STEEL SCRAP SUPPLY AVAILABLE FOR CONSUMPTION IN 2006, BY REGION AND STATE $^{\!1,\,2}$

#### (Thousand metric tons)

	Receipt	s of scrap	Production of h	ome scrap		
	From brokers,		Recirculating			
	dealers, and	From other	scrap resulting			New supply
	other outside	company-owned	from current	Obsolete	Shipments	available for
Region and State	sources	plants	operations	scrap <sup>3</sup>	of scrap <sup>4</sup>	consumption
New England and Middle Atlantic:					-	
Connecticut, Maine, Massachusetts,						
New Hampshire, Rhode Island, Vermont	28		9	(5)	(5)	37
New Jersey and New York	1,810		115	1		1,920
Pennsylvania	3,670	235	1,750	63	34	5,680
Total	5,500	235	1,870	64	34	7,640
North Central:						
Illinois	2,000	72	205		(5)	2,290
Indiana	3,520	4	2,420	(5)	426	5,530
Iowa, Nebraska, South Dakota	1,190	12	162	104	W	1,450
Kansas and Missouri	71	5	55	(5)	(5)	131
Michigan	4,260	11	1,480	10	550	5,210
Minnesota	394	128	25		W	541
Ohio	6,720	255	1,820	22	199	8,620
Wisconsin	1,790	3	1,020	1	8	2,810
Total	20,000	490	7,190	137	1,200	26,600
South Atlantic:						
Delaware and Maryland	962	14	385		61	1,300
Florida and Georgia	1,080		35		(5)	1,120
North Carolina and South Carolina	2,580	W	200		W	3,170
Virginia and West Virginia	2,120	W	313		W	2,850
Total	6,740	728	933		W	8,440
South Central:						
Alabama and Mississippi	4,550	W	316	W	62	4,810
Arkansas, Louisiana, Oklahoma	5,140	W	312	W	W	5,590
Kentucky and Tennessee	2,880	88	360		W	3,310
Texas	3,360	826	497	5	26	4,660
Total	15,900	1,060	1,490	15	118	18,400
Mountain and Pacific:						
Arizona, Colorado, Idaho, Utah	1,680	54	455	W	W	2,190
California, Oregon, Washington	2,340	2	293	(5)	W	2,450
Total	4,020	56	748	9	194	4,640
Grand total	52,100	2,570	12,200	225	1,550	65,700

W Withheld to avoid disclosing company proprietary data; included in "Total" or "Grand total." -- Zero.

<sup>&</sup>lt;sup>1</sup>Supply available for consumption is a net figure computed by adding production to receipts and deducting scrap shipped during the year. The difference in stock levels at the beginning and end of the year is not taken into consideration.

<sup>&</sup>lt;sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>3</sup>Obsolete scrap includes ingot molds, stools, and scrap from old equipment, buildings, etc.

<sup>&</sup>lt;sup>4</sup>Includes scrap shipped, transferred, or otherwise disposed of during the year.

<sup>&</sup>lt;sup>5</sup>Less than ½ unit.

 ${\rm TABLE}~6$  U.S. CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN 2006, BY REGION AND STATE  $^{1,\,2,\,3}$ 

	Manufa	cturers of					Total,	all
	pig iron	and raw	Manufac	cturers of	Iron four	ndries and	manufac	turing
	steel and	d castings	steel c	astings	miscellan	neous users	type	S
Region and State	Scrap	Pig iron	Scrap	Pig iron	Scrap	Pig iron	Scrap	Pig iron
New England and Middle Atlantic:								
Connecticut, Maine, Massachusetts, New Hampshire,								
New Jersey, New York, Rhode Island, Vermont	W	W	W		229	W	2,020	26
Pennsylvania	5,380	2,710	174	W	253	28	5,810	2,740
Total	7,160	2,730	182	1	491	36	7,830	2,770
North Central:								
Illinois	1,770	W	63	W	458	14	2,290	1,950
Indiana	4,570	13,100	73	1	888	84	5,530	13,100
Iowa, Kansas, Minnesota, Missouri, Nebraska, South								
Dakota, Wisconsin	W	W	639	52	2,070	390	4,680	529
Michigan	2,410	W	26		2,800	64	5,230	4,690
Ohio	7,710	5,640	184	W	590	132	8,490	5,770
Total	18,400	25,300	985	55	6,800	685	26,200	26,100
South Atlantic:								
Delaware, Maryland, Virginia, West Virginia	W	W	W	W	306	15	4,130	1,600
Florida, Georgia, North Carolina, South Carolina	1,590	W			158	W	4,250	266
Total	7,910	1,850	2	W	465	17	8,380	1,860
South Central:								
Alabama, Kentucky, Mississippi, Tennessee	6,710	2,380	93	W	1,110	87	7,950	4,550
Arkansas, Louisiana, Oklahoma	5,630	W	W		5	1	5,660	761
Texas	4,520	W	24	-4	211	23	4,750	75
Total	16,900	5,270	128	-4	1,380	113	18,400	5,380
Mountain and Pacific:								
Arizona, Colorado, Idaho, Utah	W	W	W	W	94	W	2,270	1,510
California, Oregon, Washington	W		334		147	3	2,510	4
Total	4,190	1,510	340	(4)	241	5	4,770	1,520
Grand total	54,500	36,700	1,640	56	9,380	856	65,600	37,600

W Withheld to avoid disclosing company proprietary data; included in "Total" or "Grand total." -- Zero.

<sup>&</sup>lt;sup>1</sup>Includes recirculating scrap resulting from current operations and home-generated obsolete scrap.

<sup>&</sup>lt;sup>2</sup>Includes molten pig iron used for ingot molds and direct castings.

<sup>&</sup>lt;sup>3</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>4</sup>Less than ½ unit.

 ${\it TABLE~7}\\ {\it U.S.~CONSUMER~STOCKS~OF~IRON~AND~STEEL~SCRAP~AND~PIG~IRON,~DECEMBER~31,~2006,~BY~REGION~AND~STATE^l}$ 

	C l				Other		
	Carbon	Stainless	Alloy	Cast	grades of	Total	Pig
Region and State	steel <sup>2</sup>	steel	steel <sup>3</sup>	iron <sup>4</sup>	scrap	scrap	iron
New England and Middle Atlantic:	_						
Connecticut, Maine, Massachusetts, New Hampshire, Rhode							
Island, Vermont	W	W		W	W	W	W
New Jersey and New York	_ 46	1	1	W	W	48	W
Pennsylvania	264	14	12	12	3	306	5
Total	310	15	13	13	4	354	5
North Central:	_						
Illinois	113	(5)	(5)	81	W	196	21
Indiana	370	5	1	16	W	401	165
Iowa, Kansas, Missouri, Nebraska, South Dakota	134	W	W	5		139	5
Michigan	90	(5)	W	21	W	114	8
Minnesota and Wisconsin	127	2	3	149	W	281	4
Ohio	640	36	W	182		861	91
Total	1,470	43	9	453	13	1,990	294
South Atlantic:	_						
Delaware, Maryland, Virginia, West Virginia	176	W	W	86	W	285	55
Florida, Georgia, North Carolina, South Carolina	262	W	W	W	W	283	39
Total	438	(5)	(5)	99	30	568	94
South Central:							
Alabama, Kentucky, Mississippi, Tennessee	543	W	W	263	3	839	141
Arkansas, Louisiana, Oklahoma	493	W	W	W		498	129
Texas	236	-5	W	6	W	245	30
Total	1,270	22	1	275	11	1,580	300
Mountain and Pacific:							
Arizona, Colorado, Idaho, Utah	92	(5)	(5)	5	W	151	7
California, Oregon, Washington	36	W	2	13	W	95	2
Total	128	1	2	18	96	246	9
Grand total	3,620	81	25	858	154	4,740	702

W Withheld to avoid disclosing company proprietary data; included in "Total" or "Grand total." -- Zero.

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Excludes rerolling rails.

<sup>&</sup>lt;sup>3</sup>Excludes stainless steel.

<sup>&</sup>lt;sup>4</sup>Includes borings.

<sup>&</sup>lt;sup>5</sup>Less than ½ unit.

 ${\it TABLE~8}$  U.S. AVERAGE MONTHLY PRICE AND COMPOSITE PRICE FOR NO. 1 HEAVY-MELTING STEEL, WITH ANNUAL AVERAGES  $^{\rm I}$ 

#### (Dollars per metric ton)

				Composite
Period	Chicago, IL	Philadelphia, PA	Pittsburgh, PA	price
2005, average	193.96	186.95	196.40	192.44
2006:				
January	220.02	187.00	217.51	207.42
February	232.84	206.68	239.49	228.09
March	233.12	209.26	241.13	227.91
April	240.69	221.79	245.81	236.53
May	244.86	232.22	246.05	241.21
June	245.24	238.99	246.05	243.47
July	241.62	238.82	237.69	239.08
August	203.09	203.95	181.39	194.13
September	203.73	216.67	189.78	204.05
October	199.62	210.18	191.92	200.28
November	194.82	209.74	191.92	198.86
December	199.84	217.82	200.21	206.42
Average	221.62	216.09	219.07	218.91

<sup>&</sup>lt;sup>1</sup>Calculated by the U.S. Geological Survey from prices published in American Metal Market.

### ${\it TABLE~9} \\ {\it U.S.~EXPORTS~OF~IRON~AND~STEEL~SCRAP,~BY~COUNTRY}^{1,\,2}$

(Thousand metric tons and thousand dollars)

	2	2005	20	006
Country	Quantity	Value	Quantity	Value
Bahamas, The	2	462	10	2,210
Bangladesh	28	7,320	246	19,200
Belgium	13	3,710	4	4,230
Brazil	10	2,410	6	1,270
Canada	2,160	264,000	1,500	285,000
Chile	1	177	(3)	333
China	3,530	1,260,000	3,420	1,600,000
Colombia	51	11,900	67	15,600
Dominican Republic	1	192	5	1,560
Egypt	208	52,500	392	98,600
Finland	- 65	97,900	50	76,900
France	4	4,610	37	7,560
Germany	7	3,260	3	3,890
Greece	- 23	4,310	227	51,900
Guatemala	(3)	202	(3)	103
Hong Kong	49	31,200	137	64,100
India	806	221,000	618	168,000
Indonesia	188	46,200	115	33,400
Ireland	1	549	1	574
Italy	137	36,900	102	46,000
Japan	41	28,700	51	51,800
Kenya	71	12,800	24	15,000
Korea, Republic of	1,130	316,000	1,350	191,000
Malaysia	457	109,000	907	202,000
Mexico	1,500	287,000	1,110	247,000
Netherlands	21	18,300	12	19,000
Pakistan	39	10,300	70	18,000
Panama	(3)	43	1	220
Peru	- 44	10,000	64	15,500
Portugal	21	4,120	23	4,970
Oatar	31	6,560		
Saudi Arabia	32	7,220	36	6,980
Singapore	- 75	2,130	54	4,810
Spain	18	15,100	32	26,800
Sweden	7	5,640	(3)	660
Switzerland	(3)	283	1	481
Taiwan	283	153,000	716	244,000
Thailand	337	77,500	461	109,000
Turkey	1,500	299,000	2,470	566,000
Turks and Caicos Islands	2	176	(3)	38
United Arab Emirates	- 3	688	1	403
United Kingdom	- 9	6,080	23	6,020
Venezuela	- 6	1,540	2	551
Vietnam	26	7,570	462	13,600
Other	- 17	5,670	58	8,580
Total	13,000	3,430,000	14,900	4,230,000
Zero	-,	-,,	- 7	,,

<sup>--</sup> Zero.

Source: U.S. Census Bureau.

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown. <sup>2</sup>Excludes used rails for rerolling and other uses and ships, boats, and other vessels for scrapping. Export valuation is free alongside ship. The United States exported scrap to 82 countries in 2005 and 83 countries in 2006.

<sup>&</sup>lt;sup>3</sup>Less than ½ unit.

 ${\rm TABLE~10}$  U.S. EXPORTS OF IRON AND STEEL SCRAP, BY CUSTOMS DISTRICT  $^{1,\,2}$ 

	2	005	20	006
Customs district	Quantity	Value	Quantity	Value
Baltimore, MD	37	18,900	20	19,000
Boston, MA	682	154,000	600	151,000
Buffalo, NY	114	33,200	122	50,500
Charleston, SC	53	32,500	189	69,400
Charlotte, NC	28	8,970	41	15,800
Chicago, IL	3	1,800	4	1,960
Cleveland, OH	1	366	(3)	426
Columbia-Snake River, OR/WA	325	78,700	537	162,000
Detroit, MI	411	78,000	368	76,900
Duluth, MN	52	6,530	31	7,030
El Paso, TX	6	1,390	11	2,190
Great Falls, MT	28	4,650	29	5,550
Honolulu, HI	147	35,900	158	33,100
Houston-Galveston, TX	101	48,500	218	78,600
Laredo, TX	898	162,000	419	86,300
Los Angeles, CA	2,820	934,000	4,210	1,260,000
Miami, FL	50	41,100	123	97,400
Mobile, AL	24	9,730	25	6,210
New Orleans, LA	304	125,000	305	121,000
New York, NY	1,920	545,000	2,150	730,000
Nogales, AZ	1	217	16	3,300
Norfolk, VA	116	61,200	228	81,000
Ogdensburg, NY	69	14,900	82	19,400
Pembina, ND	596	93,600	473	92,100
Philadelphia, PA	592	124,000	540	130,000
Portland, ME	185	42,300	216	56,000
Providence, RI	215	44,500	353	83,400
San Diego, CA	114	16,400	69	11,300
San Francisco, CA	1,110	326,000	1,530	315,000
San Juan, PR	55	11,700	146	31,500
Savannah, GA	83	47,100	174	91,800
Seattle, WA	712	237,000	801	224,000
St. Albans, VT	59	12,300	81	18,600
Tampa, FL	222	46,600	287	71,300
Other	817	33,600	314	26,800
Total	13,000	3,430,000	14,900	4,230,000

<sup>&</sup>lt;sup>1</sup>Excludes used rails for rerolling and other uses and ships, boats, and other vessels for scrapping. Export valuation is free alongside ship.

 $<sup>^2\</sup>mathrm{Data}$  are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>3</sup>Less than ½ unit.

 ${\it TABLE~11} \\ {\it U.S.~EXPORTS~OF~IRON~AND~STEEL~SCRAP,~BY~GRADE}^{1,~2}$ 

	20	005	20	006
Grade	Quantity	Value	Quantity	Value
No. 1 heavy-melting scrap	3,180	617,000	2,760	656,000
No. 2 heavy-melting scrap	325	65,900	260	53,700
No. 1 bundles	330	35,500	204	23,900
No. 2 bundles	91	21,300	44	9,060
Shredded steel scrap	3,800	834,000	3,390	792,000
Borings, shovelings, and turnings	241	27,200	143	23,100
Cut plate and structural	387	87,700	312	72,400
Tinned iron or steel	77	24,900	73	30,100
Remelting scrap ingots	10	8,900	8	8,980
Stainless steel scrap	585	670,000	1,350	716,000
Other alloy steel scrap	1,570	455,000	2,350	862,000
Other steel scrap <sup>3</sup>	1,240	328,000	1,850	572,000
Iron scrap	1,120	255,000	2,130	413,000
Total	13,000	3,430,000	14,900	4,230,000
Ships, boats, and other vessels for scrapping	3	476	5	509
Used rails for rerolling and other uses <sup>4</sup>	55	25,600	51	36,400
Grand total	13,000	3,460,000	14,900	4,270,000

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

<sup>&</sup>lt;sup>2</sup>Export valuation is free alongside ship.

<sup>&</sup>lt;sup>3</sup>Includes tinplate and terneplate.

<sup>&</sup>lt;sup>4</sup>Includes mixed (used plus new) rails. More information can be found in table 15.

 ${\it TABLE~12} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~IRON~AND~STEEL~SCRAP,~BY~COUNTRY}^{1,\,2}$ 

	200	05	2006	
Country	Quantity	Value	Quantity	Value
Argentina	(3)	201	(3)	155
Bahamas, The	3	351	5	676
Belgium	36	9,780	61	15,700
Brazil	1	774	(3)	172
Canada	2,750	570,000	3,140	766,000
China	2	978	4	796
Colombia	1	118	2	1,060
Denmark			137	36,700
Dominican Republic	31	6,900	28	6,310
Ecuador	(3)	102	(3)	76
Egypt	1	732	3	2,280
Estonia			10	3,040
Finland	1	93	(3)	13
France	(3)	358		
Germany	2	148	4	1,050
Italy	(3)	72	(3)	200
Japan	1	1,540	3	1,920
Malaysia	2	264	(3)	93
Mexico	145	61,000	236	95,000
Netherlands	222	72,300	243	62,000
Russia	35	10,500	(3)	67
South Africa	4	35		
Spain	(3) r	8 <sup>r</sup>	2	657
Sweden	261	71,500	266	67,700
Taiwan	1	396	1	470
Trinidad and Tobago	1	647	10	2,580
United Arab Emirates	(3)	170	1	728
United Kingdom	338	97,200	650	178,000
Venezuela	1	1,560		147
Other	2	1,690 <sup>r</sup>	7	2,130
Total	3,840	909,000	4,820	1,250,000

<sup>&</sup>lt;sup>r</sup>Revised. -- Zero.

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Excludes used rails for rerolling and other uses and ships, boats, and other vessels for scrapping. Import valuation is customs value. The United States imported scrap from 43 countries in 2005 and 53 countries in 2006.

<sup>&</sup>lt;sup>3</sup>Less than ½ unit.

## ${\it TABLE~13} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~IRON~AND~STEEL~SCRAP,} \\ {\it BY~CUSTOMS~DISTRICT}^{1,~2}$

(Thousand metric tons and thousand dollars)

Buffalo, NY         423         152,000         529         231,00           Charleston, SC         869         253,000         907         239,00           Charlotte, NC            21         4,41           Chicago, IL         20         1,880         3         2,52           Cleveland, OH         11         665         56         4,22           Detroit, MI         1,450         280,000         1,600         354,00           Duluth, MN         39         8,640         48         13,70           El Paso, TX         32         6,970         40         11,30           Great Falls, MT         12         2,120         19         5,15           Houston-Galveston, TX         18         17,900         21         25,00           Laredo, TX         34         23,600         42         35,30           Los Angeles, CA         2         1,580         2         1,55           Miami, FL         3         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50<		200	2005		2006		
Buffalo, NY         423         152,000         529         231,00           Charleston, SC         869         253,000         907         239,00           Charlotte, NC            21         4,41           Chicago, IL         20         1,880         3         2,52           Cleveland, OH         11         665         56         4,22           Detroit, MI         1,450         280,000         1,600         354,00           Duluth, MN         39         8,640         48         13,70           El Paso, TX         32         6,970         40         11,30           Great Falls, MT         12         2,120         19         5,15           Houston-Galveston, TX         18         17,900         21         25,00           Laredo, TX         34         23,600         42         35,30           Los Angeles, CA         2         1,580         2         1,55           Miami, FL         3         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50<	Customs district	Quantity	Value	Quantity	Value		
Charleston, SC         869         253,000         907         239,00           Charlotte, NC           21         4,41           Chicago, IL         20         1,880         3         2,52           Cleveland, OH         11         665         56         4,22           Detroit, MI         1,450         280,000         1,600         354,00           Duluth, MN         39         8,640         48         13,70           El Paso, TX         32         6,970         40         11,30           Great Falls, MT         12         2,120         19         5,15           Houston-Galveston, TX         18         17,900         21         25,00           Laredo, TX         34         23,600         42         35,30           Los Angeles, CA         2         1,580         2         1,55           Miami, FL         3         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80	Baltimore, MD	(3)	213	1.187	198		
Charlotte, NC           21         4,41           Chicago, IL         20         1,880         3         2,52           Cleveland, OH         11         665         56         4,22           Detroit, MI         1,450         280,000         1,600         354,00           Duluth, MN         39         8,640         48         13,70           El Paso, TX         32         6,970         40         11,30           Great Falls, MT         12         2,120         19         5,15           Houston-Galveston, TX         18         17,900         21         25,00           Laredo, TX         34         23,600         42         35,30           Los Angeles, CA         2         1,580         2         1,55           Miami, FL         3         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           New York, NY         3         552         37         12,80           O	Buffalo, NY	423	152,000	529	231,000		
Chicago, II.         20         1,880         3         2,52           Cleveland, OH         11         665         56         4,22           Detroit, MI         1,450         280,000         1,600         354,00           Duluth, MN         39         8,640         48         13,70           El Paso, TX         32         6,970         40         11,30           Great Falls, MT         12         2,120         19         5,15           Houston-Galveston, TX         18         17,900         21         25,00           Laredo, TX         34         23,600         42         35,30           Los Angeles, CA         2         1,580         2         1,55           Miami, FL         3         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           New York, NY         3         552         37         12,80           New Jonk, NY         16         9,520         12         8,38 <t< td=""><td>Charleston, SC</td><td>869</td><td>253,000</td><td>907</td><td>239,000</td></t<>	Charleston, SC	869	253,000	907	239,000		
Cleveland, OH         11         665         56         4,22           Detroit, MI         1,450         280,000         1,600         354,00           Duluth, MN         39         8,640         48         13,70           El Paso, TX         32         6,970         40         11,30           Great Falls, MT         12         2,120         19         5,15           Houston-Galveston, TX         18         17,900         21         25,00           Laredo, TX         34         23,600         42         35,30           Los Angeles, CA         2         1,580         2         1,55           Miami, FL         (3)         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           Negales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50	Charlotte, NC			21	4,410		
Detroit, MI         1,450         280,000         1,600         354,00           Duluth, MN         39         8,640         48         13,70           El Paso, TX         32         6,970         40         11,30           Great Falls, MT         12         2,120         19         5,15           Houston-Galveston, TX         18         17,900         21         25,00           Laredo, TX         34         23,600         42         35,30           Los Angeles, CA         2         1,580         2         1,55           Miami, FL         (3)         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           Nogales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60	Chicago, IL		1,880	3	2,520		
Duluth, MN         39         8,640         48         13,70           El Paso, TX         32         6,970         40         11,30           Great Falls, MT         12         2,120         19         5,15           Houston-Galveston, TX         18         17,900         21         25,00           Laredo, TX         34         23,600         42         35,30           Los Angeles, CA         2         1,580         2         1,55           Miami, FL         (3)         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           Nogales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San	Cleveland, OH	11	665	56	4,220		
El Paso, TX         32         6,970         40         11,30           Great Falls, MT         12         2,120         19         5,15           Houston-Galveston, TX         18         17,900         21         25,00           Laredo, TX         34         23,600         42         35,30           Los Angeles, CA         2         1,580         2         1,55           Miami, FL         (3)         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           Nogales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20 <td< td=""><td>Detroit, MI</td><td>1,450</td><td>280,000</td><td>1,600</td><td>354,000</td></td<>	Detroit, MI	1,450	280,000	1,600	354,000		
Great Falls, MT         12         2,120         19         5,15           Houston-Galveston, TX         18         17,900         21         25,00           Laredo, TX         34         23,600         42         35,30           Los Angeles, CA         2         1,580         2         1,55           Miami, FL         (3)         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           Nogales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Sea	Duluth, MN	39	8,640	48	13,700		
Houston-Galveston, TX         18         17,900         21         25,00           Laredo, TX         34         23,600         42         35,30           Los Angeles, CA         2         1,580         2         1,55           Miami, FL         (3)         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           Nogales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	El Paso, TX	32	6,970	40	11,300		
Laredo, TX         34         23,600         42         35,30           Los Angeles, CA         2         1,580         2         1,55           Miami, FL         (3)         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           Nogales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	Great Falls, MT	12	2,120	19	5,150		
Los Angeles, CA         2         1,580         2         1,555           Miami, FL         (3)         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           Nogales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	Houston-Galveston, TX	18	17,900	21	25,000		
Miami, FL         (3)         112         4         98           Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           Nogales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	Laredo, TX	34	23,600	42	35,300		
Mobile, AL         56         12,000         196         48,30           New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           Nogales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	Los Angeles, CA	2	1,580	2	1,550		
New Orleans, LA         95         23,300         346         92,50           New York, NY         3         552         37         12,80           Nogales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	Miami, FL	(3)	112	4	989		
New York, NY         3         552         37         12,80           Nogales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	Mobile, AL	56	12,000	196	48,300		
Nogales, AZ         11         3,640         8         2,75           Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	New Orleans, LA	95	23,300	346	92,500		
Ogdensburg, NY         16         9,520         12         8,38           Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	New York, NY	_ 3	552	37	12,800		
Pembina, ND         72         20,700         102         35,50           Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	Nogales, AZ	11	3,640	8	2,750		
Philadelphia, PA         1         348         3         60           Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,300	Ogdensburg, NY	16	9,520	12	8,380		
Portland, ME         (3)         11         (3)         10           San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	Pembina, ND	72	20,700	102	35,500		
San Diego, CA         55         13,200         134         25,20           Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	Philadelphia, PA	_ 1	348	3	602		
Savannah, GA         1         322         (3)         49           Seattle, WA         618         75,700         677         89,30	Portland, ME	(3)	11	(3)	104		
Seattle, WA 618 75,700 677 89,30	San Diego, CA	55	13,200	134	25,200		
	Savannah, GA	1	322	(3)	498		
Tampa, FL 3 324 5 65	Seattle, WA	618	75,700	677	89,300		
	Tampa, FL	3	324	5	650		
Other 2 1,280 (3) 48	Other	2	1,280	(3)	488		
Total 3,840 909,000 4,820 1,250,00	Total	3,840	909,000	4,820	1,250,000		

<sup>--</sup> Zero.

Source: U.S. Census Bureau.

 $<sup>^{\</sup>mathrm{l}}\mathrm{Data}$  are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Excludes used rails for rerolling and other uses and ships, boats, and other vessels for scrapping. Import valuation is customs value.

<sup>&</sup>lt;sup>3</sup>Less than ½ unit.

 ${\it TABLE~14} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~IRON~AND~STEEL~SCRAP,~BY~CLASS}^{1,\,2}$ 

	2005		2006	
Class	Quantity	Value	Quantity	Value
No. 1 heavy-melting scrap	55	7,010	105	19,400
No. 2 heavy-melting scrap	46	7,160	93	15,500
No. 1 bundles	879	228,000	1,280	333,000
No. 2 bundles	10	3,340	7	1,090
Shredded steel scrap	841	187,000	1,180	264,000
Borings, shovelings, and turnings	95	8,340	78	8,590
Cut plate and structural	193	35,300	173	31,900
Tinned iron or steel	17	3,160	10	2,530
Remelting scrap ingots	2	1,080	1	413
Stainless steel scrap	111	124,000	179	209,000
Other alloy steel scrap	425	81,200	524	109,000
Other steel scrap <sup>3</sup>	780	161,000	785	179,000
Iron scrap	385	62,700	411	73,000
Total	3,840	909,000	4,820	1,250,000
Ships, boats, and other vessels for scrapping	(4)	208	(4)	49
Used rails for rerolling and other uses <sup>5</sup>	164	62,800	185	65,600
Grand total	4,000	972,000	5,000	1,310,000

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Import valuation is customs value.

<sup>&</sup>lt;sup>3</sup>Includes tinplate and terneplate.

<sup>&</sup>lt;sup>4</sup>Less than ½ unit.

<sup>&</sup>lt;sup>5</sup>Includes mixed (used plus new) rails. More information can be found in table 16.

 $\label{thm:table 15} \text{U.S. EXPORTS OF USED RAILS FOR REROLLING AND OTHER USES, BY COUNTRY}^{I,\,2}$ 

	20	005	20	)6	
	Quantity	Value	Quantity	Value	
Country	(metric tons)	(thousands)	(metric tons)	(thousands)	
Antigua and Barbuda	1	\$8	95	\$21	
Argentina	1	3			
Aruba	3	47	46	194	
Australia	470	1,040	829	1,400	
Austria	8	35	53	104	
Bahamas, The	268	202	112	321	
Barbados			45	42	
Bolivia			25	36	
Brazil	679	531	25	15	
British Virgin Islands			73	63	
Canada	20,200	9,100	13,600	10,700	
Cayman Islands	102	120	84	299	
Chile	21	43	27	68	
China	612	205	500	271	
Colombia	264	76	2,790	3,040	
Costa Rica		8	15	64	
Dominican Republic	519	573	156	259	
Egypt	2,120	1,020			
El Salvador	1	11	6	9	
France	42	19			
Germany		10	96	93	
Guatemala	93	34	26	36	
Guyana			14	28	
Honduras			23	29	
Hong Kong		297	40	46	
India			11	382	
Indonesia			36	27	
Ireland	1	119	12	37	
Israel			21	45	
Italy		24	21	81	
Jamaica			2,540	2,640	
Japan		167	1	28	
Korea, Republic of	65	148	118	146	
Lebanon			597	499	
Malaysia			84	113	
Mexico	26,900	10,100	26,500	13,400	
Netherlands	1	8	1	14	
Netherland Antilles	3	13	83	195	
New Zealand	44	120			
Nicaragua			23	67	
Peru		170	24	8	
Philippines		3	9	15	
Saudi Arabia		24	5	11	
Singapore		27	19	117	
Slovakia		5			
Spain	54	11			
St. Lucia			66	88	
Suriname		8			
Taiwan	2,420	978	1,290	563	
Thailand	9	17	1,250	19	
Trinidad and Tobago		3	56	59	
Turks and Caicos Islands		157	29	33	
United Kingdom		30	58	33 85	
	33	30 87	374	540	
Venezuela Other	5 r		16	32	
Total	55,300	25,600	50,700	36,400	
Revised Zero.	33,300	23,000	50,700	30,400	

<sup>&</sup>lt;sup>r</sup>Revised. -- Zero.

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Exports contain mixed (used plus new) rails totaling 21,500 metric tons (t) valued at \$15,600,000 in 2005 and 29,200 t valued at \$26,500,000 in 2006. Export valuation is free alongside ship value.

TABLE 16  $\hbox{U.s. IMPORTS FOR CONSUMPTION OF USED RAILS FOR REROLLING } \\ \hbox{AND OTHER USES, BY COUNTRY}^{1,2}$ 

	2005		2006		
	Quantity	Value	Quantity	Value	
Country	(metric tons)	(thousands)	(metric tons)	(thousands)	
Australia			6	\$14	
Austria	447	\$500	16	19	
Canada	29,000	8,700	47,000	13,400	
China			22	30	
Columbia			(3)	4	
Czech Republic	6	12			
France			39	25	
Germany	531	837	418	599	
Italy	_ 2	6	5	12	
Japan	72	15	8	17	
Korea, Republic of	110	74	119	79	
Mexico	619	410	1,180	844	
Russia	109,000	46,100	136,000	50,500	
Switzerland	(3)	3	1	4	
Taiwan	_ 2	5	3	11	
Ukraine	23,700	6,190			
United Kingdom		34			
Total	164,000	62,800	185,000	65,600	

<sup>--</sup> Zero.

 $\label{eq:table 17} \text{U.s. EXPORTS OF DIRECT-REDUCED IRON, BY COUNTRY}^{1,\,2}$ 

	200	2005		2006		
	Quantity	Value	Quantity	Value		
Country	(metric tons)	(thousands)	(metric tons)	(thousands)		
Brazil			44	\$5		
Mexico	87	\$9	58	6		
Spain	68	7				
Total	155	16	102	11		
-						

<sup>--</sup> Zero.

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Import valuation is customs value.

<sup>&</sup>lt;sup>3</sup>Less than ½ unit.

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Data are for steelmaking-grade direct-reduced iron only.

TABLE 18 U.S. IMPORTS FOR CONSUMPTION OF DIRECT-REDUCED IRON, BY COUNTRY  $^{\!1,2}$ 

	200	2005		2006		
	Quantity	Value	Quantity	Value		
Country	(metric tons)	(thousands)	(metric tons)	(thousands)		
Brazil	238,000	\$17,900	331,000	\$30,100		
Canada	532,000	50,300	642,000	48,900		
China	425	53				
Mexico			14,200	1,500		
South Africa			10,000	2,600		
Trinidad and Tobago	92,100	20,300	156,000	39,300		
Venezuela	1,310,000	272,000	1,430,000	289,000		
Vietnam			31,300	5,660		
Total	2,170,000	361,000	2,610,000	417,000		
-						

<sup>--</sup> Zero.

 $\label{eq:table 19} \text{U.S. EXPORTS OF PIG IRON, BY COUNTRY}^{1,\,2}$ 

	20	05	20	06
	Quantity	Value	Quantity	Value
Country	(metric tons)	(thousands)	(metric tons)	(thousands)
Australia			1	\$26
Belgium			30	14
Brazil	13	\$6		
Canada	9,010	1,430	4,080	1,260
Cayman Islands	907	80		
China		9	15,500	467
Colombia	21,000	1,850	55	18
Costa Rica	472	42		
Dominican Republic	154	65	179	76
France	1,660	151	11	5
Germany	31	14	78	21
Israel			162	34
Italy			2	3
Japan			6	7
Korea, Republic of	895	94	13,600	119
Malaysia	322	28		
Mexico	13,900	4,100	755,000	754
Netherlands	14	7	9	4
Singapore			4,050	719
Spain			11	12
Taiwan	956	84	52	56
Trinidad and Tobago	271	24	124	41
Turkey			18,200	4,900
United Arab Emirates	948	83	798	70
United Kingdom	59	31	1,380	144
Venezuela		9		
Total	50,700	8,110	813,000	8,750

<sup>--</sup> Zero.

Source: U.S. Census Bureau.

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Data are for steelmaking-grade direct-reduced iron only.

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

 $<sup>^2</sup>$ Includes the following grades of pig iron: less than or equal to 0.5% phosphorus content, greater than 0.5% phosphorus content, and alloy grade. Export valuation is free alongside ship value.

 $\label{eq:table 20} \text{U.S. IMPORTS FOR CONSUMPTION OF PIG IRON, BY COUNTRY}^{1,\,2}$ 

	200	05	200	06
	Quantity	Value	Quantity	Value
Country	(metric tons)	(thousands)	(metric tons)	(thousands)
Argentina	27,200	\$7,210		
Australia	204	214	36,000	\$8,640
Brazil	4,460,000	1,180,000	4,210,000	1,100,000
Canada	105,000	34,000	101,000	30,000
China	57,200	13,900	20	17
Colombia	238	147		
Germany	10	3	3	7
Hong Kong	3	5		
Italy	498	236		
Mexico	27	15		
Russia	918,000	218,000	1,910,000	504,000
South Africa	141,000	44,000	147,000	39,800
Trinidad and Tobago	26,200	816	142,000	29,100
Ukraine	274,000	76,700	188,000	48,400
Venezuela	22,400	988	2,600	794
Total	6,030,000	1,580,000	6,730,000	1,760,000

<sup>--</sup> Zero.

<sup>&</sup>lt;sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown. <sup>2</sup>Includes the following grades of pig iron: less than or equal to 0.5% phosphorus content, greater than 0.5% phosphorus content, and alloy grade. Import valuation is customs value.