

IRON AND STEEL STATISTICS¹
U.S. GEOLOGICAL SURVEY
[All values in metric tons (t) unless otherwise noted]
Last modification: January 12, 2009

PIG IRON STATISTICS

Year	Primary production	Shipments	Imports	Exports	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
1900	13,200,000		52,000	287,000	13,000,000	20.80	410	
1901	15,900,000		62,000	81,200	15,900,000	16.80	330	
1902	17,800,000		619,000	27,500	18,400,000	23.10	440	
1903	18,000,000		599,000	20,400	18,600,000	21.10	380	
1904	16,500,000				16,500,000	15.60	280	
1905	23,000,000				23,000,000	18.30	330	
1906	25,300,000				25,300,000	22.00	400	
1907	25,200,000				25,200,000	22.70	400	
1908	15,900,000				15,900,000	17.60	320	
1909	25,800,000		160,000	56,200	23,500,000	17.90	330	
1910	27,100,000		215,000	116,000	24,300,000	17.00	300	66,500,000
1911	21,500,000		135,000	110,000	21,100,000	15.50	270	64,400,000
1912	27,000,000	27,400,000	117,000	247,000	27,300,000	15.40	260	73,700,000
1913	28,100,000	27,600,000	142,000	252,000	27,500,000	16.60	274	79,000,000
1914	21,200,000	20,200,000	153,000	104,000	20,200,000	14.80	241	56,300,000
1915	27,100,000	27,600,000	81,500	204,000	27,500,000	14.60	235	50,500,000
1916	35,800,000	35,500,000	123,000	551,000	35,100,000	18.70	280	74,300,000
1917	35,000,000	35,000,000	69,700	595,000	34,500,000	30.10	383	71,900,000
1918	35,400,000	34,700,000	31,500	245,000	34,500,000	34.10	368	65,200,000
1919	28,100,000	27,300,000	92,200	291,000	27,100,000	28.40	268	50,900,000
1920	33,500,000	32,400,000	169,000	197,000	32,400,000	35.20	286	61,300,000
1921	15,100,000	14,500,000	39,900	25,700	14,500,000	26.80	243	36,700,000
1922	24,700,000	25,100,000	348,000	28,100	25,400,000	24.20	235	70,000,000
1923	36,600,000	34,800,000	334,000	29,300	35,100,000	27.20	259	68,500,000
1924	28,500,000	28,200,000	190,000	37,600	28,400,000	23.60	225	76,900,000
1925	33,300,000	33,400,000	400,000	29,600	33,800,000	22.10	207	76,900,000
1926	35,700,000	34,600,000	404,000	22,900	35,000,000	21.60	199	78,900,000
1927	33,200,000	31,600,000	120,000	46,300	31,700,000	20.40	191	86,800,000
1928	34,600,000	34,700,000	128,000	76,800	34,800,000	19.00	181	88,900,000
1929	38,700,000	37,700,000	134,000	42,100	37,800,000	19.40	185	98,500,000
1930	27,700,000	27,100,000	124,000	12,400	27,200,000	18.90	185	80,200,000
1931	16,300,000	16,200,000	76,600	6,100	16,300,000	17.70	189	55,700,000
1932	7,760,000	7,730,000	119,000	2,110	7,950,000	16.30	194	39,800,000
1933	11,800,000	13,000,000	122,000	2,490	13,100,000	16.40	205	49,400,000
1934	14,200,000	14,200,000	104,000	3,720	14,300,000	18.40	224	63,000,000
1935	18,900,000	19,200,000	119,000	3,730	19,300,000	18.60	222	74,400,000
1936	27,400,000	27,900,000	150,000	4,820	28,000,000	17.30	203	91,600,000
1937	32,800,000	32,000,000	101,000	710,000	31,400,000	20.40	231	104,000,000
1938	16,900,000	16,500,000	27,600	392,000	16,100,000	19.30	223	82,900,000
1939	28,200,000	29,100,000	35,000	161,000	29,000,000	19.20	225	102,000,000
1940	37,400,000	38,000,000	9,290	502,000	37,500,000	19.70	230	110,000,000
1941	50,000,000	50,100,000	3,330	525,000	49,600,000	22.20	246	110,000,000
1942	53,600,000	53,600,000		100,000	53,500,000	22.90	229	103,000,000
1943	55,100,000	55,100,000	1,310	131,000	55,000,000	23.10	218	105,000,000
1944	55,300,000	55,300,000	5,240	147,000	55,200,000	23.10	214	98,000,000
1945	48,300,000	48,300,000	19,400	82,400	48,200,000	24.30	221	71,700,000
1946	40,700,000	40,900,000	12,800	86,800	40,800,000	27.00	225	71,700,000
1947	52,900,000	53,000,000	29,600	9,920	53,000,000	33.40	244	90,700,000
1948	54,500,000	54,500,000	199,000	6,380	54,700,000	41.00	277	103,000,000
1949	48,400,000	48,000,000	90,500	73,800	48,000,000	46.40	317	105,000,000

IRON AND STEEL STATISTICS¹
U.S. GEOLOGICAL SURVEY
[All values in metric tons (t) unless otherwise noted]
Last modification: January 12, 2009

PIG IRON STATISTICS

Year	Primary production	Shipments	Imports	Exports	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
1950	58,500,000	58,600,000	730,000	6,180	59,300,000	47.20	319	134,000,000
1951	63,800,000	63,700,000	968,000	5,950	64,700,000	51.50	322	151,000,000
1952	55,600,000	55,600,000	345,000	12,800	55,900,000	53.40	327	153,000,000
1953	67,900,000	67,300,000	535,000	17,100	67,800,000	54.90	335	169,000,000
1954	52,600,000	52,400,000	264,000	9,300	52,700,000	55.00	334	159,000,000
1955	69,700,000	70,100,000	257,000	31,700	70,300,000	55.90	341	193,000,000
1956	68,100,000	68,100,000	297,000	244,000	68,200,000	59.10	354	201,000,000
1957	71,100,000	69,800,000	204,000	800,000	69,200,000	64.40	374	212,000,000
1958	51,900,000	51,600,000	191,000	93,400	51,700,000	65.70	371	197,000,000
1959	54,600,000	55,600,000	636,000	9,070	56,200,000	65.40	365	224,000,000
1960	60,300,000	59,500,000	325,000	102,000	59,700,000	65.60	361	259,000,000
1961	58,800,000	59,200,000	342,000	342,000	59,200,000	64.50	352	256,000,000
1962	59,500,000	59,600,000	454,000	140,000	59,900,000	64.10	346	266,000,000
1963	65,200,000	65,500,000	585,000	63,500	66,000,000	64.50	343	281,000,000
1964	77,500,000	77,700,000	668,000	160,000	78,200,000	64.20	338	317,000,000
1965	80,000,000	80,200,000	800,000	25,400	81,000,000	62.80	326	335,000,000
1966	82,800,000	82,400,000	1,080,000	10,900	83,500,000	62.10	312	347,000,000
1967	78,700,000	78,800,000	549,000	6,350	79,300,000	62.20	303	350,000,000
1968	80,500,000	80,800,000	713,000	8,160	81,500,000	62.20	292	379,000,000
1969	86,200,000	86,600,000	367,000	39,900	86,900,000	71.60	318	411,000,000
1970	82,800,000	82,800,000	226,000	281,000	82,700,000	71.60	301	431,000,000
1971	73,800,000	73,800,000	278,000	30,800	74,000,000	77.40	312	430,000,000
1972	80,600,000	80,800,000	578,000	13,600	81,400,000	85.30	333	454,000,000
1973	91,900,000	92,200,000	405,000	13,600	92,600,000	82.00	301	501,000,000
1974	86,600,000	87,000,000	310,000	91,600	87,200,000	143	471	512,000,000
1975	72,300,000	71,900,000	434,000	54,400	72,300,000	189	574	479,000,000
1976	78,800,000	78,600,000	376,000	52,600	78,900,000	198	566	498,000,000
1977	73,900,000	74,700,000	338,000	46,300	75,000,000	199	534	488,000,000
1978	79,600,000	80,300,000	594,000	46,300	80,800,000	205	512	506,000,000
1979	78,900,000	79,600,000	432,000	95,300	79,900,000	212	476	532,000,000
1980	62,300,000	63,000,000	363,000	66,200	63,300,000	217	429	514,000,000
1981	66,900,000	67,300,000	425,000	14,500	67,700,000	227	408	502,000,000
1982	39,300,000	39,400,000	292,000	49,000	39,600,000	230	388	457,000,000
1983	44,200,000	44,500,000	220,000	5,440	44,700,000	226	370	463,000,000
1984	47,100,000	43,100,000	112,000	51,700	43,200,000	215	338	495,000,000
1985	45,300,000	45,800,000	307,000	29,000	46,100,000	223	338	499,000,000
1986	40,200,000	39,900,000	268,000	37,200	40,100,000	207	307	495,000,000
1987	43,800,000	43,700,000	322,000	45,000	44,000,000	209	300	509,000,000
1988	50,600,000	51,000,000	635,000	65,000	51,600,000	235	324	539,000,000
1989	50,700,000	51,300,000	443,000	11,000	51,700,000			546,000,000
1990	49,700,000	49,700,000	347,000	14,000	50,000,000			531,000,000
1991	44,100,000		434,000	15,000	44,500,000			509,000,000
1992	47,400,000		497,000	33,000	47,900,000			503,000,000
1993	48,200,000		828,000	27,000	49,000,000			507,000,000
1994	49,400,000		2,440,000	56,000	51,800,000			516,000,000
1995	50,900,000		2,360,000	56,000	53,200,000			536,000,000
1996	49,400,000		2,660,000	60,000	52,000,000			516,000,000
1997	49,600,000		3,150,000	86,000	52,700,000			540,000,000
1998	48,200,000		5,140,000	87,000	53,300,000			535,000,000
1999	46,300,000		4,990,000	82,000	51,200,000			539,000,000

IRON AND STEEL STATISTICS¹
U.S. GEOLOGICAL SURVEY
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PIG IRON STATISTICS

Year	Primary production	Shipments	Imports	Exports	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
2000	47,900,000		4,970,000	72,000	52,800,000			573,000,000
2001	42,100,000		4,370,000	44,000	46,400,000			585,000,000
2002	40,200,000		4,620,000	34,000	44,800,000			608,000,000
2003	40,600,000		3,890,000	86,000	44,400,000			673,000,000
2004	42,300,000		6,400,000	48,000	48,700,000			720,000,000
2005	37,200,000		6,030,000	51,000	43,200,000			802,000,000
2006	37,900,000		6,730,000	813,000	43,800,000			883,000,000
2007	36,300,000		5,220,000	71,000	41,400,000			947,000,000

¹Compiled by C.A. DiFrancesco (retired), T.D. Kelly (retired), D.I. Bleiwas, and M.D. Fenton.
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DIRECT REDUCED IRON STATISTICS					
Year	Production	Imports	Exports	Apparent consumption	World production
1984					9,240,000
1985	140,000			140,000	11,000,000
1986	160,000			160,000	12,400,000
1987	210,000	56,000	15,000	251,000	13,800,000
1988	290,000	176,000	17,000	449,000	14,400,000
1989	290,000	226,000	23,000	493,000	16,600,000
1990	390,000	333,000	4,000	719,000	18,200,000
1991	410,000	365,000	4,000	771,000	19,100,000
1992	390,000	542,000	9,000	923,000	20,500,000
1993	440,000	1,090,000	17,000	1,510,000	23,500,000
1994	480,000	1,170,000	18,000	1,630,000	27,700,000
1995	460,000	1,190,000	5,000	1,650,000	31,100,000
1996	450,000	1,050,000	3,000	1,500,000	33,000,000
1997	510,000	987,000	8,000	1,490,000	34,700,000
1998	1,600,000	939,000	5,000	2,530,000	37,800,000
1999	1,670,000	950,000	3,000	2,620,000	38,200,000
2000	1,560,000	988,000	2,000	2,550,000	42,400,000
2001	120,000	1,650,000	1,000	1,769,000	39,300,000
2002	470,000	2,010,000	1,000	2,479,000	44,600,000
2003	210,000	1,940,000	5,000	2,145,000	47,200,000
2004	180,000	2,450,000	13,000	2,617,000	52,600,000
2005	220,000	2,170,000	0	2,390,000	56,500,000
2006	240,000	2,610,000	0	2,850,000	59,100,000
2007	250,000	2,330,000	0	2,580,000	65,000,000

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IRON AND STEEL STATISTICS¹
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STEEL STATISTICS

Year	Steel product shipments	Raw steel production	Imports	Exports	Semifinished imports	Stock changes	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
1900	9,490,000	9,240,000					9,500,000			
1901	12,300,000	12,200,000					12,000,000			
1902	13,900,000	13,600,000					14,000,000			
1903	13,200,000	13,200,000					13,000,000			
1904	12,000,000	12,600,000					12,000,000			
1905	16,800,000	18,200,000					17,000,000			
1906	19,600,000	21,200,000					20,000,000			
1907	19,900,000	21,200,000					20,000,000			
1908	11,800,000	12,700,000					12,000,000			
1909	19,600,000	21,700,000					20,000,000			
1910	21,600,000	23,700,000					22,000,000			
1911	19,000,000	21,500,000					19,000,000			
1912	24,700,000	28,300,000					25,000,000			
1913	24,800,000	28,400,000					25,000,000			
1914	18,400,000	21,300,000	127,000	1,210,000			17,300,000			
1915	24,400,000	29,100,000	174,000	3,010,000			21,600,000			
1916	32,400,000	38,700,000	170,000	5,000,000			27,600,000			
1917	33,100,000	40,600,000	216,000	5,240,000			28,100,000			
1918	31,200,000	39,900,000	113,000	4,600,000			26,700,000			
1919	25,100,000	31,100,000	195,000	3,700,000			21,600,000			
1920	32,300,000	37,800,000	203,000	4,250,000			28,300,000			
1921	14,800,000	17,800,000	71,700	1,980,000			12,900,000			
1922	26,500,000	32,000,000	193,000	1,730,000			25,000,000			
1923	33,300,000	40,300,000	219,000	1,520,000			32,000,000			
1924	28,100,000	34,000,000	152,000	1,560,000			26,700,000			
1925	33,400,000	40,600,000	171,000	1,510,000			32,100,000			
1926	35,500,000	43,200,000	188,000	1,850,000			33,800,000			
1927	32,900,000	40,200,000	121,000	1,720,000			31,300,000			
1928	37,700,000	46,000,000	139,000	2,060,000			35,800,000			
1929	41,100,000	50,300,000	155,000	2,210,000			39,000,000			
1930	29,500,000	36,400,000	293,000	1,440,000			28,400,000			
1931	19,200,000	23,500,000	278,000	740,000			18,700,000			
1932	10,500,000	12,400,000	202,000	328,000			10,400,000			
1933	16,700,000	21,100,000	176,000	510,000			16,400,000			
1934	19,000,000	23,600,000	144,000	871,000			18,300,000			

IRON AND STEEL STATISTICS¹
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STEEL STATISTICS

Year	Steel product shipments	Raw steel production	Imports	Exports	Semifinished imports	Stock changes	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
1935	24,000,000	27,700,000	255,000	868,000			23,400,000			
1936	33,800,000	43,300,000	374,000	1,100,000			33,100,000			
1937	36,800,000	45,900,000	266,000	512,000			36,600,000			
1938	23,500,000	25,700,000	151,000	375,000			23,300,000			
1939	39,000,000	60,800,000	174,000	2,360,000			36,800,000			
1940	48,700,000	78,000,000	19,700	7,340,000			41,400,000	9.90	115.12	
1941	62,300,000	75,200,000	16,200	5,930,000			56,400,000	10.00	111.11	
1942	60,900,000	78,000,000	22,500	6,470,000			54,500,000	10.00	100.00	
1943	60,600,000	80,600,000	16,000	6,370,000			54,200,000	10.00	94.34	172,000,000
1944	59,600,000	81,300,000	51,000	5,350,000			54,300,000	10.00	92.59	164,000,000
1945	53,800,000	72,300,000	69,000	1,940,000			51,900,000	10.20	92.73	101,000,000
1946	46,400,000	60,400,000	23,200	1,770,000			44,700,000	11.10	92.50	123,000,000
1947	59,100,000	77,000,000	31,000	2,680,000			56,500,000	13.00	94.89	123,000,000
1948	66,000,000	80,400,000	142,000	1,920,000			64,200,000	14.90	100.68	141,000,000
1949	58,100,000	70,700,000	277,000	2,060,000			56,300,000	16.10	110.27	145,000,000
1950	72,200,000	87,800,000	1,000,000	1,260,000			71,900,000	17.00	114.86	189,000,000
1951	78,900,000	95,400,000	2,080,000	1,410,000			79,600,000	18.30	114.38	211,000,000
1952	68,000,000	84,500,000	1,130,000	4,040,000			65,100,000	18.70	114.72	211,000,000
1953	80,200,000	101,000,000	1,590,000	3,050,000			78,700,000	20.20	123.17	235,000,000
1954	63,200,000	80,100,000	811,000	2,810,000			61,200,000	21.10	127.88	224,000,000
1955	84,700,000	106,000,000	995,000	4,060,000			81,600,000	22.10	134.76	269,000,000
1956	83,300,000	105,000,000	1,370,000	4,310,000			80,400,000	24.00	143.71	284,000,000
1957	79,900,000	102,000,000	1,170,000	5,370,000			75,700,000	26.30	152.91	293,000,000
1958	59,900,000	77,300,000	1,650,000	2,930,000			58,600,000	27.20	153.67	271,000,000
1959	69,400,000	84,800,000	4,190,000	1,790,000			71,800,000	27.60	154.19	305,000,000
1960	71,100,000	90,100,000	3,240,000	2,950,000			71,400,000	27.60	151.65	346,000,000
1961	66,100,000	88,900,000	3,000,000	2,010,000			67,100,000	27.50	150.27	352,000,000
1962	70,600,000	89,200,000	3,900,000	2,060,000			72,400,000	27.40	148.11	361,000,000
1963	75,600,000	99,100,000	5,110,000	2,420,000			78,300,000	27.60	146.81	387,000,000
1964	85,000,000	115,000,000	6,010,000	3,690,000			87,300,000	27.80	146.32	437,000,000
1965	92,700,000	119,000,000	9,650,000	2,620,000			99,700,000	27.90	144.56	459,000,000
1966	90,000,000	122,000,000	10,000,000	1,950,000			98,100,000	28.30	142.21	475,000,000
1967	83,900,000	115,000,000	10,700,000	1,910,000			92,700,000	28.60	139.51	494,000,000
1968	91,900,000	119,000,000	16,700,000	2,420,000			106,000,000	29.30	136.92	530,000,000
1969	85,100,000	128,000,000	13,200,000	5,788,000	177,000	170,000	92,700,000	30.70	136.44	574,000,000

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STEEL STATISTICS

Year	Steel product shipments	Raw steel production	Imports	Exports	Semifinished imports	Stock changes	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
1970	82,400,000	119,000,000	12,600,000	6,950,000	155,000		87,700,000	32.70	137.39	594,000,000
1971	78,900,000	109,000,000	17,000,000	3,200,000	249,000		92,300,000	35.20	141.37	581,000,000
1972	83,300,000	121,000,000	16,500,000	3,220,000	238,000		96,200,000	37.30	145.70	629,000,000
1973	101,000,000	137,000,000	14,200,000	4,500,000	156,000	-454,000	111,000,000	38.40	141.18	698,000,000
1974	99,300,000	132,000,000	14,900,000	6,340,000	165,000	-454,000	108,000,000	48.60	160.40	708,000,000
1975	72,600,000	106,000,000	11,300,000	3,610,000	219,000	2,270,000	77,800,000	56.40	170.91	644,000,000
1976	81,100,000	116,000,000	13,600,000	3,330,000	218,000	-2,090,000	93,200,000	60.00	171.92	674,000,000
1977	82,700,000	114,000,000	18,100,000	2,810,000	270,000	2,810,000	94,900,000	65.80	176.88	673,000,000
1978	88,800,000	124,000,000	20,000,000	2,970,000	375,000	-544,000	106,000,000	72.80	182.00	715,000,000
1979	60,900,000	124,000,000	16,700,000	3,080,000	313,000	-1,450,000	75,700,000	80.20	180.22	745,000,000
1980	76,100,000	101,000,000	14,800,000	4,290,000	141,000	-18,000	86,500,000	86.60	171.15	716,000,000
1981	80,200,000	110,000,000	18,900,000	3,230,000	717,000		95,000,000	96.60	173.12	707,000,000
1982	65,800,000	67,700,000	15,800,000	2,150,000	649,000		78,600,000	100.00	168.92	644,000,000
1983	61,300,000	76,800,000	16,300,000	1,440,000	748,000		75,200,000	100.90	165.14	663,000,000
1984	66,700,000	83,900,000	24,900,000	1,280,000	1,380,000		88,800,000	104.70	164.36	711,000,000
1985	66,300,000	80,100,000	23,300,000	1,150,000	1,700,000		86,600,000	104.70	158.64	718,000,000
1986	63,700,000	74,000,000	20,100,000	1,090,000	1,730,000		80,800,000	99.80	148.51	713,000,000
1987	69,500,000	80,900,000	18,500,000	1,020,000	1,910,000		84,900,000	102.30	146.77	734,000,000
1988	76,200,000	90,700,000	19,000,000	1,880,000	23,400,000		69,800,000	110.70	152.48	780,000,000
1989	76,300,000	88,900,000	15,700,000	4,150,000	1,990,000		85,700,000	114.50	150.46	784,000,000
1990	77,100,000	89,700,000	15,600,000	3,900,000	2,110,000		86,500,000	112.10	139.78	771,000,000
1991	71,500,000	79,700,000	14,400,000	5,760,000	2,050,000		77,900,000	109.50	130.98	737,000,000
1992	74,800,000	84,300,000	15,500,000	3,890,000	2,170,000		84,100,000	106.40	123.58	724,000,000
1993	60,800,000	88,800,000	17,700,000	3,600,000	4,530,000		70,200,000	108.20	121.98	730,000,000
1994	80,300,000	91,200,000	27,300,000	3,470,000	7,200,000		96,800,000	113.40	124.75	730,000,000
1995	88,400,000	95,200,000	22,100,000	6,420,000	2,500,000	-1,630,000	103,000,000	120.10	128.45	752,000,000
1996	91,500,000	95,500,000	26,500,000	4,560,000	6,000,000	403,000	108,000,000	115.60	120.04	751,000,000
1997	96,000,000	98,500,000	28,300,000	5,470,000	5,000,000	282,000	114,000,000	116.40	118.17	797,000,000
1998	92,900,000	98,600,000	37,700,000	5,010,000	6,100,000	1,000	118,000,000	113.80	113.80	770,000,000
1999	96,300,000	97,400,000	32,400,000	4,920,000	7,780,000	-92,000	116,000,000	105.30	103.03	784,000,000
2000	98,900,000	102,000,000	34,400,000	5,920,000	7,760,000	103,000	120,000,000	108.40	102.65	850,000,000
2001	89,700,000	90,100,000	27,300,000	5,570,000	5,840,000	-908,000	107,000,000	101.30	93.19	852,000,000
2002	90,700,000	91,600,000	29,600,000	5,450,000	8,020,000	6,880,000	100,000,000	104.80	94.93	907,000,000
2003	96,100,000	93,700,000	21,000,000	7,460,000	4,370,000	-1,410,000	107,000,000	109.50	96.99	974,000,000
2004	101,000,000	99,700,000	32,500,000	7,200,000	6,730,000	2,100,000	117,000,000	147.20	127.01	1,062,000,000

IRON AND STEEL STATISTICS¹
U.S. GEOLOGICAL SURVEY
 [All values in metric tons (t) unless otherwise noted]
 Last modification: January 12, 2009

STEEL STATISTICS

Year	Steel product shipments	Raw steel production	Imports	Exports	Semifinished imports	Stock changes	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
2005	95,200,000	94,900,000	29,100,000	8,520,000	6,270,000	-3,010,000	113,000,000	159.70	133.31	1,140,000,000
2006	99,300,000	98,200,000	41,100,000	8,830,000	8,460,000	3,300,000	120,000,000	174.10	140.74	1,250,000,000
2007	96,500,000	98,100,000	30,200,000	10,100,000	6,040,000	-3,860,000	114,000,000	182.90	143.79	1,340,000,000

¹Compiled by C.A. DiFrancesco (retired), T.D. Kelly (retired), D.I. Bleiwas, and M.D. Fenton.
 Data are calculated, estimated, or reported. See notes for more information.

Iron and Steel Worksheet Notes

Data Sources

The sources of data for the iron and steel worksheet are the mineral statistics provided by the International Iron and Steel Institute in Brussels, Belgium, and publications of the U.S. Bureau of Mines and the U.S. Geological Survey—Minerals Yearbook (MYB) and its predecessor, Mineral Resources of the United States (MR); Mineral Commodity Summaries (MCS) and its predecessor, Commodity Data Summaries (CDS); and Metal Prices in the United States through 1998 (MP98). The March 2000 issue of “New Steel” provides a composite price series for finished steel. The years of publication and corresponding years of data coverage are listed in the References section below. Blank cells in the worksheet indicate that data were not available.

Pig Iron

Primary Production

Production data for the years 1900–10 were provided by International Iron and Steel Institute in Brussels, Belgium. U.S. production of pig iron is recorded from the MYB and the MR for the years 1911 to the most recent.

Shipments

Shipments of pig iron from U.S. producers are recorded from the MYB and the MR for the years 1909–90. Shipment data were not available for the years 1900–08 and 1991 to the most recent.

Imports

Imports of pig iron into the United States are recorded from the MYB and the MR for the years 1900–03 and 1908 to the most recent. Import data were not available for the years 1904–08.

Exports

Exports of pig iron from the United States are recorded from the MYB and MR for the years 1900–03 and 1909 to the most recent. Export data were not available for the years 1904–08 and 1942. The drop in exports for at least the first 3 years following 1900 results from a significant drop in European demand.

Apparent Consumption

Apparent consumption of pig iron was recorded from the Scrap Iron and Steel chapter of the MYB from 1935 to the most recent year. From 1900–34, apparent consumption was calculated. For the years 1900–34, the following formula was used to calculate apparent consumption:

$$\text{APPARENT CONSUMPTION} = \text{SHIPMENTS} + \text{IMPORTS} - \text{EXPORTS}.$$

Production was substituted for shipments in the formula above when shipments were not reported.

Unit Value (\$/t)

Unit value is defined as the value in dollars of 1 metric ton (t) of pig iron apparent consumption. Unit value for pig iron is estimated from the reported average annual value of shipments from the MYB and the MR. Data were not available for the years 1989 to the most recent.

Unit Value (98\$/t)

The Consumer Price Index conversion factor, with 1998 as the base year, is used to adjust unit value in current U.S. dollars to the unit value in constant 1998 U.S. dollars.

World Production

World production of pig iron was recorded from the MYB and the MR for the years 1910 to the most recent. World production tables changed to production by principal countries tables for the years 1910–22 for pig iron. A graph of world production shows no sudden jump in quantity moving from 1922 to the 5 following years, 1923–28. This indicates that most major producers were probably included in the “principal countries” category. World production data were not available for the years 1900–09.

Direct Reduced Iron

Production

U.S. production of direct reduced iron is recorded from the MYB for the years 1985 to the most recent.

Imports

Imports of direct reduced iron into the United States are recorded from the MYB for the years 1987 to the most recent.

Exports

Exports of direct reduced iron from the United States are recorded from the MYB for the years 1987 to the most recent.

Apparent Consumption

Apparent consumption for direct reduced iron was calculated for the years 1987 to the most recent with the following formula:

$$\text{APPARENT CONSUMPTION} = \text{SHIPMENTS} + \text{IMPORTS} - \text{EXPORTS}.$$

For the years 1984 and 1985, apparent consumption was assumed to be equal to production because imports and exports were not available.

World Production

World production of direct reduced iron was recorded from the MYB for the years 1984 to the most recent.

Steel

Steel Product Shipments

U.S. steel product shipments are used as a proxy for the purpose of estimating domestic production in order to estimate apparent consumption of steel mill products. Data for the years 1900–68 were from the AISI (Robert MacDonald, Director of Statistics, American Iron and Steel Institute, written commun., November 3, 2005), as data from other sources were not available and from the MYB for 1969 to the most recent year.

Raw Steel Production

U.S. production of raw steel (steel in the first solid state) is recorded from the MYB and the MR. Production of raw steel is the total of carbon steel, stainless steel, and alloy steel for the years 1942 to the most recent. Stainless steel is not reported for the years 1900–41. In 1932, the category alloy steel is no longer reported, and electric steel (steel produced in an electric furnace) is reported. The total steel production for the years 1900–32 is estimated by summing production of carbon steel and electric steel.

Imports and Exports

Imports for steel in the MYB are reported as steel mill products for the years 1956 to the most recent, while exports are reported as steel mill products for the years 1942 to the most recent. Prior to 1956 for imports and for the year 1942 for exports, iron and steel products are given in two different tables (sometimes summed and sometimes not) in the MYB. For the years 1956–68, the iron and steel exports table in the MYB is simultaneously reported with an exported steel mill products table. Comparing the iron and steel products exported table, with the steel mill products exported table in the MYB, demonstrates that iron products account for about 9 percent of the amount of exports reported in the iron and steel products exported table. Using this 9 percent deduction, the import and export tables of iron and steel products were used to estimate steel mill products exported and imported for those years in which these categories were not directly reported. Semimanufactures and manufactures were accounted for in summing these tables. Advanced manufactures were not included in the summation.

Semifinished Imports

The amount of semifinished steel consumed by companies that also produced raw steel was subtracted from domestic consumption. This was done to avoid double counting the imported semifinished steel and the products produced from it. For the years 1969 to the most recent, semifinished import data were from the MYB. For the years 1900–68, data were not available.

Stock Changes

Changes in stocks were calculated for the years 1973–80 and 1995 to the most recent. Changes in stocks for the years 1900–72 and 1981–94 could not be calculated because data were incomplete.

Apparent Consumption

For the years 1969 to the most recent, apparent consumption for steel mill goods was calculated with the formula:

$$\text{APPARENT CONSUMPTION} = \text{SHIPMENTS} + \text{IMPORTS} - \text{EXPORTS} - \text{SEMIFINISHED IMPORTS} (\pm) \text{ STOCK CHANGES}.$$

For the years 1900–68, apparent consumption was calculated without semifinished imports and stock changes, as these values were not available. For the years 1900–13, imports and exports were not reported, so apparent consumption was estimated as equal to production. For these years, two significant figures are reported.

Unit Value (\$/t)

Unit value is defined as value in dollars for 1 metric ton (t) of steel apparent consumption. Unit value for steel was estimated by combining hot rolled steel bar price from the years 1900–36 as published in MP98 with the “Iron Age” (now called “New Steel”) annual average composite steel price from 1936 to the present as published in the MYB and MR from 1936–89, and in “New Steel” from 1990–98 (New Steel Online, March 2000, New Steel’s guide to steel prices and production in 1999, accessed April 15, 2000, at

URL <http://www.newsteel.com>). Figure 1 indicates that from 1900–36, the hot rolled steel bar price is a good predictor of the “Iron Age” composite price, because the two curves pull together into almost complete overlap by 1936.

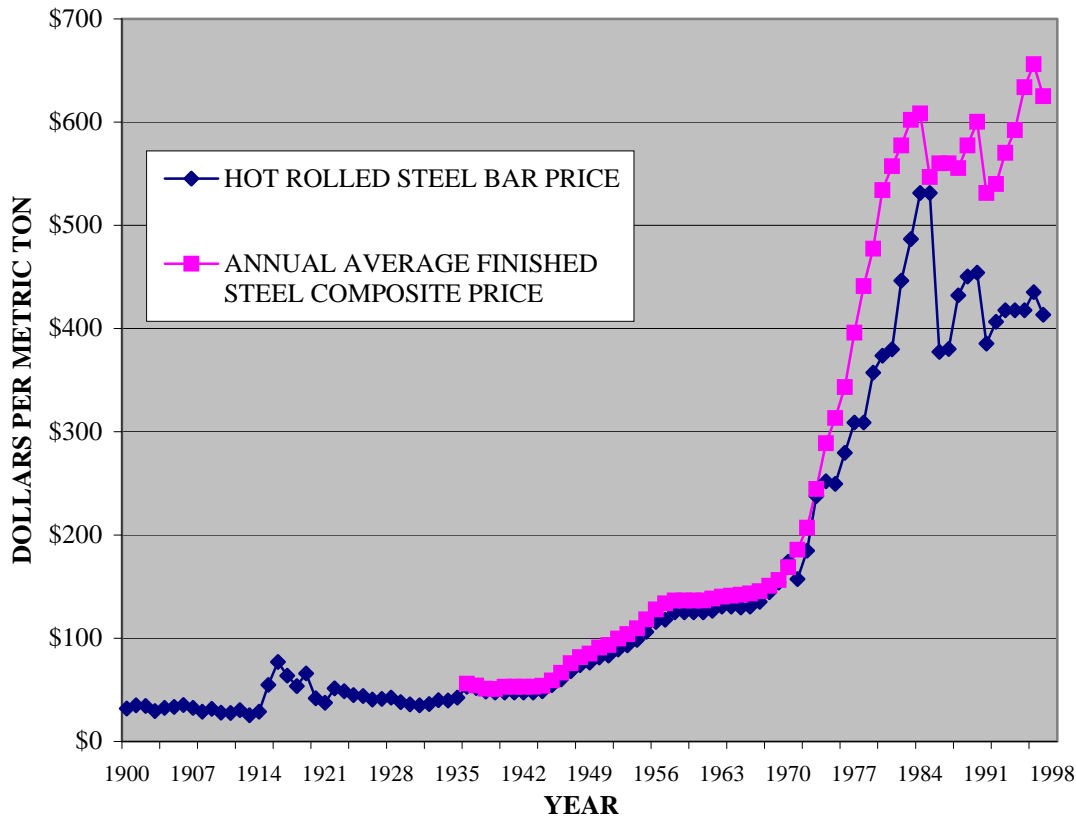


Figure 1 Price Comparison

Because the “Iron Age” composite price was reported from 1936–89 in the MYB, this price series was continued from 1990–98. Since 1990, the producer price index has been reported in the MYB. The fact that the composite price exceeds the hot rolled steel bar price in current years is explained by the increases in alloy steel and stainless steel since the 1970s. Because unit value is an estimate of the value of apparent consumption; this conjoined price series better estimates the value of steel consumed in the United States than the hot rolled steel bar price series. For the years 1999 to the most recent, the producer price index for steel mill products was used to continue the unit value price series because “New Steel” ceased publication in September 2001.

Unit Value (98\$/t)

The Consumer Price Index conversion factor, with 1998 as the base year, is used to adjust unit value in current U.S. dollars to the unit value in constant 1998 U.S. dollars.

World Production

World production for steel is recorded from the MYB for the years 1943–2003, and the MCS for 2004 to the most recent year. World production statistics were not available for the years 1900–42. The 7 percent increase in world crude steel production from 1999–2000 reflects the increase in crude steel production, mainly from Germany (10 percent), Japan (13 percent), the five steel-producing countries (Azerbaijan, Belarus, Georgia, Kazakhstan, and Moldova) in the Commonwealth of Independent States (18 percent), Russia (15 percent), and Ukraine (16 percent). This increase in production was due to the rebound caused by resurging Asian economies and increasing steel demand in Asia and the United States through 1999 from the 1997 Asian financial crisis.

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