



World Steel in Figures

2005

Table of contents

World crude steel production (1950 to 2004)	1
Top steel-producing companies (2003 and 2004)	2
Major steel-producing countries (2003 and 2004)	3
IISI sustainability criteria (2004)	4
Price range for hot-rolled coil (1982 to 2004)	5
Estimated value of world steel production (1982 to 2004)	5
Crude steel production by process (2004)	6
Continuously-cast steel output (2002 to 2004)	7
Monthly crude steel production by region:	
Total 64 reporting countries	8
European Union (15)	8
CIS (6)	8
NAFTA	9
Latin America	9
Japan	9
China	9
Steel production and use: geographical distribution (2004)	10
World steel trade by area (2003)	11
Major importers and exporters of steel (2003)	12
World steel exports - analysis by product (1999 to 2003)	13
World trade in steel products (1975 to 2003)	14
World volume of trade (1990 to 2003)	14
Iron ore (2003)	15
World iron ore trade by area (2003)	16
Scrap: consumption, trade, and apparent domestic supply (2003)	17
Pig iron (2003 and 2004)	18
Direct reduced iron production (1999 to 2004)	19
Apparent steel use (1998 to 2004)	20

World Steel in Figures

© International Iron and Steel Institute, 2005

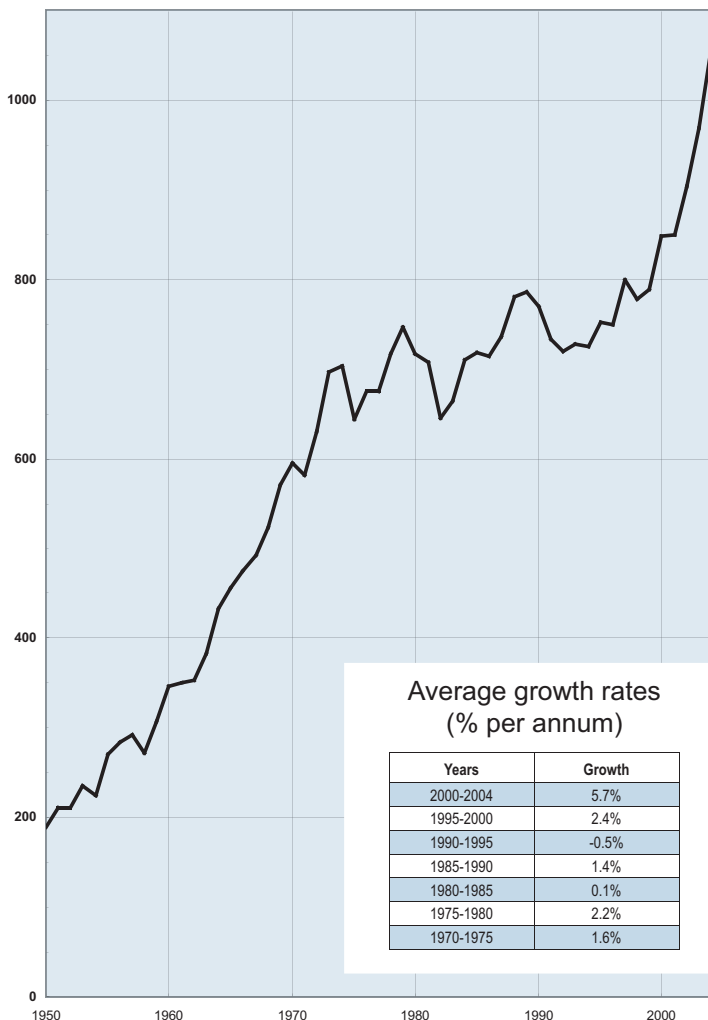
ISSN 1379-9746

World crude steel production 1950 to 2004

(million metric tons)

Year	World
2004	1,057
2003	969
2002	903
2001	850
2000	948
1999	789
1998	777
1997	799
1996	750
1995	752
1994	725

Year	World
1990	770
1985	719
1980	717
1975	643
1970	595
1965	456
1960	347
1955	270
1950	189



Top steel-producing companies 2003 and 2004

(million metric tons crude steel output)

2004		2003		Company	2004		2003		Company
1	46.9	1	42.8	Arcelor	41	5.9	35	5.8	voestalpine
2	42.8	2	35.3	Mittal Steel	42	5.7	40	5.3	Azovstal
3	32.4	3	31.3	Nippon Steel	43	5.6	38	5.4	AK Steel
4	31.6	4	30.2	JFE	44	5.5	41	5.3	CSN
5	30.2	5	28.9	POSCO	45	5.5	37	5.6	HKM ²
6	21.4	6	19.9	Shanghai Baosteel	46	5.5	51	4.7	Benxi
7	20.8	8	17.9	US Steel	47	5.4	42	5.3	Baotou
8	19.0	7	19.1	Corus Group	48	5.2	54	4.6	Anyang
9	17.9	10	15.8	Nucor	49	5.2	47	5.0	Techint
10	17.6	9	16.1	ThyssenKrupp	50	5.1	65	3.7	Celsa
11	16.7	11	15.7	Riva Acciao	51	5.0	48	4.9	Erdemir Group
12	16.1	18	10.6	ISG	52	4.9	52	4.7	Stelco
13	14.6	14	12.3	Gerdau	53	4.7	53	4.6	USIMINAS
14	13.0	12	12.8	Sumitomo	54	4.6	72	3.3	Nangang
15	12.2	15	12.1	Evrz Holding	55	4.5	55	4.6	Rautaruukki
16	12.1	13	12.4	SAIL	56	4.5	56	4.4	Zaporizhstal
17	11.3	19	10.2	Anshan	57	4.4	59	4.2	Dofasco
18	11.3	16	11.5	Magnitogorsk	58	4.2	57	4.3	Tata Iron and Steel Co
19	10.9	17	10.8	China Steel	59	4.2	60	4.1	COSIPA
20	10.4	20	9.9	Severstal	60	4.1	62	3.9	SSAB
21	9.3	22	8.4	Wuhan	61	4.0	73	3.3	Tangshan Guofeng Steel
22	9.1	21	8.9	Novolipetsk	62	4.0	63	3.9	Nisshin Steel
23	8.7	25	7.8	Imidro	63	4.0	70	3.4	EZZ
24	8.5	23	8.2	Shougang	64	3.9	67	3.5	SIDOR
25	8.1	24	8.0	Salzgitter ¹	65	3.9	61	3.9	Hadeed
26	8.0	33	6.1	Maanshan	66	3.8	50	4.8	CST
27	7.7	26	7.3	Kobe Steel	67	3.8	68	3.5	Alchevsk
28	7.6	27	7.2	INI Steel	68	3.7	64	3.8	Lucchini
29	7.6	46	5.0	Jiangsu Shagang Group	69	3.6	66	3.7	Tokyo Steel
30	7.1	28	7.1	Krivorozstal	70	3.6	69	3.4	Urals Steel
31	7.1	43	5.2	Valin Steel Group	71	3.5	80	2.9	Shaoguan
32	7.1	32	6.1	Tangshan	72	3.4	77	3.1	Tianjin Tiantie
33	6.9	30	6.5	Mariupol (Ilyich)	73	3.4	71	3.4	RINL
34	6.9	45	5.1	Jinan	74	3.4	76	3.1	Lion Group
35	6.8	34	6.1	Handan	75	3.4	107	2.1	Commercial Metals
36	6.7	29	6.5	BlueScope	76	3.4	92	2.5	Hebei Jinxi
37	6.6	58	4.2	Laiwu	77	3.4	85	2.6	Tangshan Jianlong
38	6.5	36	5.8	Duferco Group	78	3.3	82	2.8	Hylsamex
39	6.2	49	4.9	Chelyabinsk (Mechel)	79	3.3	91	2.5	Xuanhua
40	6.0	39	5.3	Panzhihua	80	3.3	86	2.6	Xinyu

¹ 33.5% of HKM included in Salzgitter

² 50.0% of HKM included in ThyssenKrupp

Major steel-producing countries 2003 and 2004

(million metric tons crude steel production)

	2004		2003	
	Rank	mmt	Rank	mmt
China	1	272.5	1	222.4
Japan	2	112.7	2	110.5
United States	3	98.9	3	93.7
Russia	4	65.6	4	61.5
South Korea	5	47.5	5	46.3
FR Germany	6	46.4	6	44.8
Ukraine	7	38.7	7	36.9
Brazil	8	32.9	9	31.1
India	9	32.6	8	31.8
Italy	10	28.4	10	26.8
France	11	20.8	11	19.8
Turkey	12	20.5	13	18.3
Taiwan, China	13	19.5	12	18.8
Spain	14	17.7	14	16.5
Mexico	15	16.7	16	15.2
Canada	16	16.3	15	15.9
United Kingdom	17	13.8	17	13.3
Belgium	18	11.7	18	11.1
Poland	19	10.6	20	9.1
South Africa	20	9.5	19	9.5
Iran	21	8.7	21	7.9

	2004		2003	
	Rank	mmt	Rank	mmt
Australia	22	7.4	22	7.5
Czech Republic	23	7.0	23	6.8
Netherlands	24	6.8	24	6.6
Austria	25	6.5	25	6.3
Romania	26	6.0	27	5.7
Sweden	27	6.0	26	5.7
Kazakhstan	28	5.4	29	4.9
Argentina	29	5.1	28	5.0
Finland	30	4.8	30	4.8
Egypt	31	4.8	32	4.4
Venezuela	32	4.6	35	3.9
Thailand (e)	33	4.5	36	3.6
Slovakia	34	4.5	31	4.6
Malaysia (e)	35	4.0	33	4.0
Saudi Arabia	36	3.9	34	3.9
Indonesia (e)	37	2.8	39	2.0
Luxembourg	38	2.7	37	2.7
Bulgaria	39	2.4	38	2.3
Greece	40	2.0	41	1.7
Hungary	41	2.0	40	2.0
Others		21.4		19.7
Total World		1 056.7		969.3

IISI sustainability criteria 2003

In 2004, IISI published the first Sustainability Report for the world steel industry. Titled *The Measure of Our Sustainability*, the report lists the 11 sustainability criteria approved by the IISI Board in October 2004.

The 11 criteria measure the economic, environmental, and social performance of the world steel industry in 2003. Forty-two IISI member companies contributed data to the report.

More information about the sustainability indicators and *The Measure of Our Sustainability* can be found on worldsteel.org.

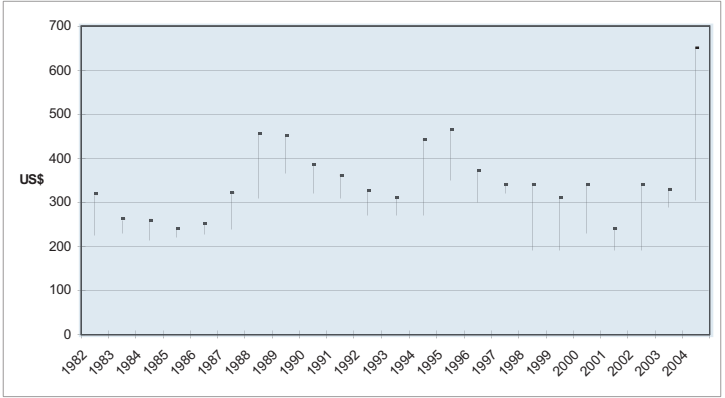
The following table shows the criteria and the resulting values.

No	Indicator	Value	Units	DQI*
1	Investment in new processes and products	6.0	% of revenue	97%
2	Operating margin	8.9	% of revenue	94%
3	Return on capital employed (ROCE)	9.5	% of capital employed	97%
4	Value added	3.2	% of revenue	95%
5	Greenhouse gas emissions	1.6	Tonnes of CO ₂ /tonne of crude steel produced	92%
6	Material efficiency	96.8	%	93%
7	Energy intensity	19.0	GJ/tonne of crude steel produced	93%
8	Steel recycling	42.3	% of crude steel produced	93%
9	Environmental management systems	85	% of total employees and contractors working in registered production facilities	94%
10	Employee training	6.3	Training days/employee	95%
11	Lost time injury frequency rate	7.8	Frequency/1 million hours worked	95%

*Data quality indicator

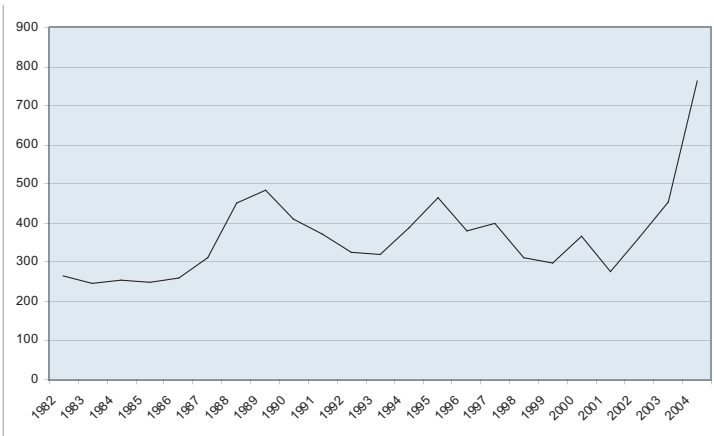
Price range for hot-rolled coil 1982 to 2004

(US\$/tonne FOB Antwerp)



Estimated value of world steel production 1982 to 2004

(US\$ billion)



Crude steel production by process

2004

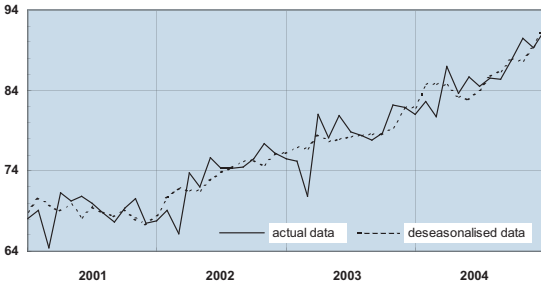
	Production (mmt)	Oxygen %	Electric %	Open Hearth %	Other %	Total %
Austria	6.5	90.4	9.6	-	-	100.0
Belgium	11.7	75.2	24.8	-	-	100.0
Czech Republic	7.0	92.5	7.5	-	-	100.0
Finland	4.8	69.1	30.9	-	-	100.0
France	20.8	61.4	38.6	-	-	100.0
FR Germany	46.4	69.3	30.7	-	-	100.0
Hungary	2.0	85.1	14.9	-	-	100.0
Italy	28.4	37.5	62.5	-	-	100.0
Luxembourg	2.7	-	100.0	-	-	100.0
Netherlands	6.8	98.0	2.0	-	-	100.0
Poland	10.6	64.9	35.1	-	-	100.0
Slovakia	4.5	92.0	8.0	-	-	100.0
Spain	17.7	23.8	76.2	-	-	100.0
Sweden	6.0	69.0	31.0	-	-	100.0
United Kingdom	13.8	77.5	22.5	-	-	100.0
Other EU	3.3	-	100.0	-	-	100.0
European Union (25)	192.9	61.4	38.6	-	-	100.0
Romania	6.0	77.5	22.5	-	-	100.0
Turkey	20.5	28.5	71.5	-	-	100.0
Others	5.6	51.5	48.4	-	0.1	100.0
Other Europe	32.1	41.4	58.6	-	0.0	100.0
Russia	65.6	61.6	16.3	22.1	-	100.0
Ukraine	38.7	49.8	6.8	43.4	-	100.0
Other CIS	9.3	57.8	34.7	7.5	-	100.0
CIS	113.6	57.2	14.6	28.2	-	100.0
Canada	16.3	58.6	41.4	-	-	100.0
Mexico	16.7	28.5	71.5	-	-	100.0
United States	98.9	46.4	53.6	-	-	100.0
NAFTA	132.0	45.6	54.4	-	-	100.0
Argentina	5.1	48.5	51.5	-	-	100.0
Brazil	32.9	76.8	23.2	-	-	100.0
Chile	1.6	76.4	23.6	-	-	100.0
Venezuela	4.6	-	100.0	-	-	100.0
Others	2.8	25.9	74.1	-	-	100.0
Central & South America	46.9	63.0	37.0	-	-	100.0
Egypt	4.8	26.6	73.4	-	-	100.0
South Africa	9.5	52.1	47.9	-	-	100.0
Other Africa	2.3	51.2	48.8	-	-	100.0
Africa	16.6	44.6	55.4	-	-	100.0
Iran	8.7	26.5	73.5	-	-	100.0
Saudi Arabia	3.9	-	100.0	-	-	100.0
Other Middle East	1.4	-	100.0	-	-	100.0
Middle East	14.0	16.5	83.5	-	-	100.0
China	272.5	81.6	18.4	-	0.0	100.0
India	32.6	57.2	38.9	3.9	-	100.0
Japan	112.7	73.6	26.4	-	-	100.0
South Korea	47.5	56.1	43.9	-	-	100.0
Taiwan, China	19.5	55.7	44.3	-	-	100.0
Other Asia	13.5	-	99.4	0.6	-	100.0
Asia	498.3	72.6	27.1	0.3	0.0	100.0
Australia	7.4	80.1	19.9	-	-	100.0
New Zealand	0.9	72.1	27.9	-	-	100.0
World	1 054.8	63.0	33.8	3.2	0.0	100.0

Continuously-cast steel output 2002 to 2004

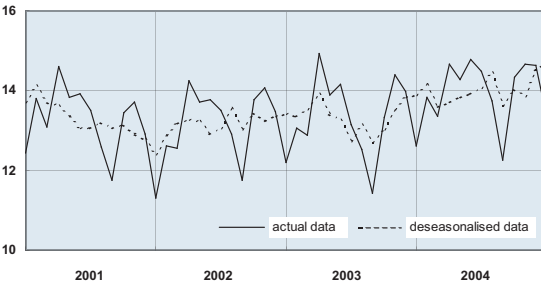
	Million metric tons (mmt)			% crude steel output		
	2002	2003	2004	2002	2003	2004
Austria	6.0	6.0	6.3	96.9	96.4	96.0
Belgium	11.3	11.1	11.7	99.8	99.8	99.8
Czech Republic	5.8	6.1	6.3	89.0	90.3	90.1
Finland	4.0	4.7	4.8	99.5	99.3	99.5
France	19.5	19.0	20.0	96.5	96.3	96.1
FR Germany	43.4	43.1	44.9	96.4	96.2	96.8
Hungary	2.0	2.0	1.9	99.7	100.0	99.1
Italy	25.1	25.9	27.4	96.3	96.4	96.4
Luxembourg	2.7	2.7	2.7	98.6	99.5	100.0
Netherlands	6.0	6.5	6.7	98.0	98.2	98.0
Poland	6.3	7.0	8.2	75.6	76.4	77.1
Slovakia	4.3	4.6	4.4	99.5	99.6	99.7
Spain	15.9	15.9	17.5	96.8	96.8	98.8
Sweden	5.1	5.1	5.3	88.8	89.2	88.8
United Kingdom	11.2	12.8	13.4	95.8	96.2	97.2
Other EU	3.2	2.9	3.2	87.3	97.8	98.2
European Union (25)	171.7	174.9	184.2	95.5	95.5	95.8
Romania	4.6	4.7	4.9	83.6	81.8	81.1
Turkey	16.5	18.3	20.5	100.0	100.0	100.0
Others	2.8	3.1	3.7	66.1	64.8	68.5
Other Europe	23.9	26.1	29.1	91.1	90.5	91.1
Russia	28.8	32.3	35.6	48.1	52.5	54.3
Ukraine	11.8	16.5	17.3	34.7	44.6	44.6
Other CIS	2.9	3.4	3.9	37.7	41.0	41.8
CIS	43.5	52.2	56.8	42.8	48.9	50.0
Canada	15.6	15.6	16.1	97.7	97.9	98.5
Mexico	13.7	15.0	16.1	97.7	99.1	96.4
United States	89.1	91.2	96.1	97.2	97.3	97.1
NAFTA	118.4	121.8	128.3	97.4	97.6	97.2
Argentina	4.3	5.0	5.0	98.0	98.3	98.3
Brazil	27.4	28.6	30.5	92.6	91.9	92.7
Venezuela	4.2	3.9	4.6	100.0	100.0	100.0
Other Latin America	3.5	3.7	4.0	89.8	90.6	91.3
Central & South America	39.3	41.2	44.1	93.6	93.2	93.9
Egypt	4.2	4.3	4.7	97.7	97.8	97.9
South Africa	9.0	9.4	9.4	98.4	98.6	98.7
Other Africa	1.1	1.1	1.1	91.1	87.8	86.4
Africa	14.3	14.7	15.2	97.6	97.5	97.5
Iran	7.3	7.9	8.7	100.0	100.0	100.0
Saudi Arabia	3.6	3.9	3.9	100.0	100.0	100.0
Other Middle East	1.3	1.3	1.4	100.0	100.0	100.0
Middle East	12.2	13.1	14.0	100.0	100.0	100.0
China	166.1	208.0	261.0	91.2	93.5	95.8
India	18.8	20.8	21.5	65.2	65.3	65.9
Japan	105.3	108.0	110.2	97.8	97.7	97.8
South Korea	44.8	45.6	46.7	98.6	98.5	98.3
Taiwan, China	18.1	18.8	19.5	99.4	99.7	99.7
Other Asia	10.6	10.6	12.5	99.2	99.3	100.0
Asia	363.8	411.7	471.4	92.5	93.5	94.8
Australia	7.5	7.5	7.4	99.4	99.4	99.3
New Zealand	0.8	0.9	0.9	10.0	100.0	100.0
World	795.3	864.1	951.1	88.4	89.6	90.4

Monthly crude steel production by region 2001 to 2004

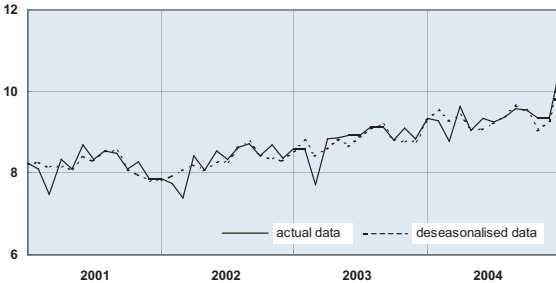
Total 64 reporting countries



European Union (15)



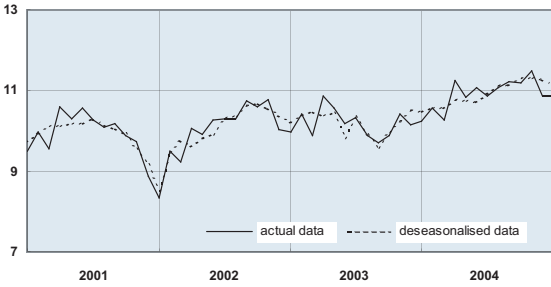
CIS (6)



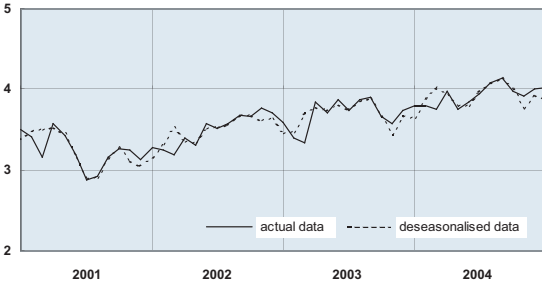
Reporting countries

Argentina; Australia; Austria; Belgium; Brazil; Bulgaria; Byelorussia; Canada; Chile; China; Colombia; Croatia; Cuba; Czech Republic; Denmark; Dominican Republic; Ecuador; Egypt; El Salvador; Finland; France; FR Germany; Greece; Guatemala; Hungary; India; Iran; Ireland; Italy; Japan; Kazakhstan; Libya; Luxembourg; Mexico; Moldova; Netherlands; New Zealand; Norway; Paraguay; Peru; Poland; Portugal; Qatar; Romania; Russia; Saudi Arabia; Serbia and Montenegro; Slovak Republic; Slovenia; South Africa; South Korea; Spain; Sweden; Taiwan, China; Trinidad and Tobago; Tunisia; Turkey; Ukraine; United Kingdom; United States; Uruguay; Uzbekistan; Venezuela; and Zimbabwe. In 2004, these countries accounted for approximately 98% of world crude steel production.

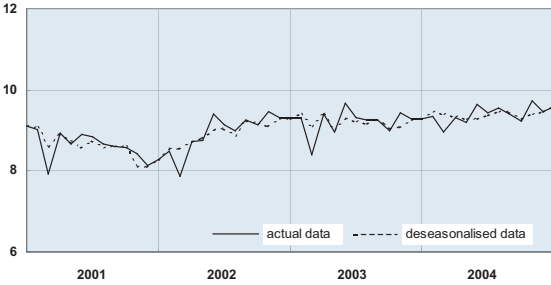
NAFTA



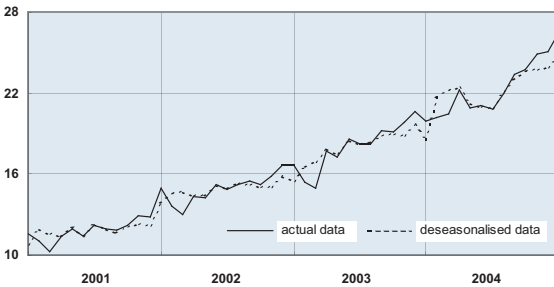
Central and South America



Japan



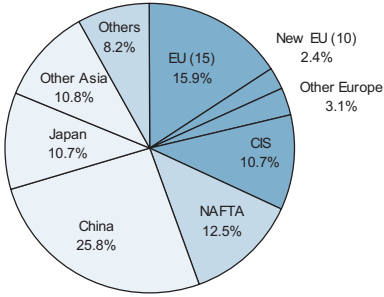
China



Steel production and use: geographical distribution, 2004

World total 2004: 1,057 million metric tons of crude steel

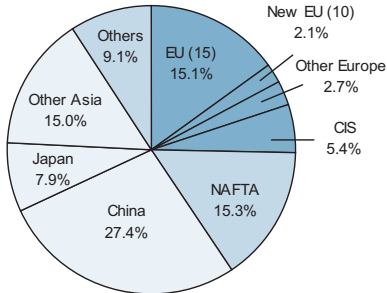
Production



Others comprise:

Africa	1.6%	Central and South America	4.5%
Middle East	1.3%	Australia and New Zealand	0.8%

Use (crude steel equivalent)



Others comprise:

Africa	1.9%	Central and South America	3.4%
Middle East	2.9%	Australia and New Zealand	0.8%

World steel trade by area 2003

(million metric tons)

Exporting Region ▼	European Union (15)	Other Europe	former USSR	North America	Latin America	Africa & Middle East	China	Japan	Other Asia	Oceania	Total Imports	Extra-regional imports ¹
European Union (15)	77.9	15.1	5.7	0.8	2.2	1.9	0.6	0.3	0.8	0.1	105.4	27.5
Other Europe	13.5	5.9	7.5	0.0	0.1	0.1	0.0	0.2	0.2	0.0	27.6	21.7
former USSR	0.8	0.3	6.4	0.1	0.0	0.0	0.0	0.2	0.4	0.0	8.3	1.9
North America	4.3	1.9	0.5	8.9	7.1	0.7	0.9	1.2	2.1	0.4	28.0	19.1
Latin America	1.6	0.3	0.7	1.9	5.5	0.2	0.1	1.0	0.4	0.0	11.6	6.2
Africa	2.8	1.4	4.7	0.1	0.3	2.3	0.2	0.4	0.2	0.0	12.4	10.2
Middle East	3.2	4.3	9.5	0.1	0.1	1.3	0.4	1.0	1.1	0.0	21.0	19.7
China	2.7	1.9	13.6	0.8	3.4	1.0	-	6.4	13.4	0.0	43.2	43.2
Japan	0.1	0.0	0.0	0.0	0.0	0.0	0.3	-	2.6	0.0	3.2	3.2
Other Asia	3.7	1.4	14.0	0.5	6.1	2.8	5.4	22.3	9.5	0.2	65.9	56.4
Oceania	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.7	0.8	0.3	2.3	2.0
Total Exports	110.8	32.5	62.7	13.2	24.9	10.4	8.2	33.7	31.5	1.1	329.0	211.1
Extra-regional exports ¹	32.9	26.5	56.3	4.3	19.5	6.8	8.2	33.7	22.0	0.8	211.1	
Net Exports ²	5.4	4.9	54.4	-14.8	13.3	-23.1	-35.0	30.5	-34.4	-1.2		

¹ Total exports minus intra-regional trade. Intra-regional trade is highlighted.

² Exports minus imports

Major importers and exporters of steel 2003

(million metric tons)

Rank	Country	Total Exports
1	Japan	33.7
2	Russia	32.3
3	Ukraine	26.6
4	Germany ¹	24.7
5	Belgium-Luxembourg ¹	20.4
6	France ¹	17.5
7	South Korea	14.1
8	Brazil	13.0
9	Italy ¹	11.3
10	Turkey	11.1
11	China	8.5
12	Netherlands ¹	7.7
13	United States	7.5
14	United Kingdom ¹	7.3
15	Spain ¹	6.4
16	India	5.5
17	Canada	5.5
18	Austria ¹	5.2
19	South Africa	5.1
20	Mexico	5.0

Rank	Country	Total Imports
1	China	43.2
2	United States	21.3
3	Germany ¹	18.1
4	Italy ¹	17.5
5	South Korea	15.6
6	France ¹	14.8
7	Belgium-Luxembourg ¹	12.9
8	Spain ¹	12.1
9	Taiwan, China	11.1
10	Thailand	9.4
11	Turkey	8.2
12	Iran	8.1
13	United Kingdom ¹	8.1
14	Canada	7.1
15	Hong Kong	7.0
16	Mexico	5.5
17	Netherlands ¹	5.4
18	Viet Nam	4.5
19	Malaysia	3.8
20	Poland	3.5

Rank	Country	Net Exports ³
1	Japan	30.5
2	Russia	28.9
3	Ukraine	25.7
4	Brazil	12.4
5	Belgium-Luxembourg ¹	7.6
6	Germany ¹	6.6
7	EU (15) ²	5.4
8	South Africa	4.8
9	India	4.1
10	Kazakhstan	3.0
11	Slovakia	3.0
12	Turkey	2.9
13	France ¹	2.7
14	Austria ¹	2.6
15	Venezuela	2.5

Rank	Country	Net Imports ⁴
1	China	34.7
2	United States	13.8
3	Taiwan, China	11.1
4	Thailand	7.6
5	Iran	6.8
6	Italy ¹	6.1
7	Spain ¹	5.7
8	Viet Nam	4.5
9	Hong Kong	4.0
10	United Arab Emirates	3.3
11	Philippines	2.5
12	Portugal ¹	2.5
13	Indonesia	2.5
14	Singapore	2.3
15	Saudi Arabia	2.0

¹ Data for individual European Union (15) countries include intra-European trade

² Excluding intra-European trade

³ Exports-imports

⁴ Imports-exports

World steel exports - analysis by product 1999 to 2003

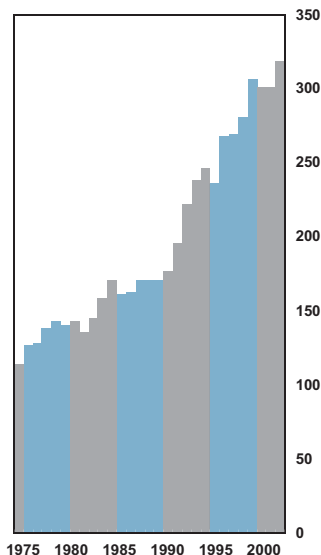
(million metric tons)

	1999	2000	2001	2002	2003
Ingots and semi-finished material	44.9	48.1	47.3	50.5	51.0
Railway track material	2.8	2.1	2.5	2.5	2.7
Angles, shapes and sections	16.1	18.5	17.8	17.1	17.7
Concrete reinforcing bars	11.0	11.1	13.2	13.0	14.8
Bars and rods, hot-rolled	8.7	9.0	9.3	8.5	9.1
Wire rod	15.5	16.8	16.3	17.6	17.9
Drawn wire	4.4	4.2	4.2	4.5	4.9
Other bars and rods	3.1	3.6	3.8	3.6	3.9
Hot-rolled strip	2.7	3.1	3.4	3.4	3.2
Cold-rolled strip	3.0	3.5	3.2	3.4	3.6
Hot-rolled sheets and coils	45.8	49.1	43.7	49.0	50.0
Plates	15.8	17.0	17.7	18.2	20.6
Cold-rolled sheets and coils	26.9	29.1	26.9	28.4	29.8
Electrical sheet and strip	2.1	2.6	2.6	2.7	3.4
Tinmill products	5.8	6.4	6.0	6.2	6.4
Galvanised sheet	19.1	21.9	20.5	23.1	24.3
Other coated sheet	5.4	6.3	6.1	6.7	6.8
Steel tubes and fittings	18.8	21.5	23.8	24.5	23.8
Wheels (forged and rolled) and axles	0.7	0.3	0.3	0.3	0.3
Castings	0.4	0.5	0.5	0.5	0.6
Forgings	0.4	1.5	0.8	0.8	0.8
Other	0.0	0.0	0.0	0.0	0.0
Total	253.4	276.4	270.0	284.5	295.7

Exports in *World Steel in Figures* include intra-EU trade and trade between countries of the former Council for Mutual Economic Assistance (CMEA). They are based on a broad definition of the steel industry and its products, including ingots, semi-finished products, hot-rolled and cold-finished products, tubes, wire, and unworked castings and forgings. The above table comprises the exports of 37 countries, which represent approximately 90% of total world trade in 2003

World trade in steel products 1975 to 2003

(million metric tons finished steel)



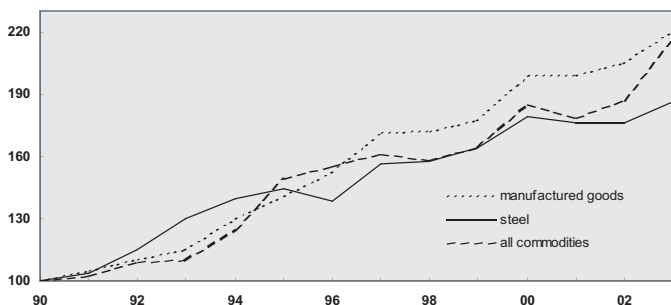
Year	Exports	Production	Exports %
1975	114.7	506.9	22.6
1976	126.1	533.7	23.6
1977	127.9	536.5	23.8
1978	138.6	571.7	24.2
1979	143.1	598.7	23.9
1980	140.6	578.7	24.3
1981	142.8	574.3	24.9
1982	135.5	528.7	25.6
1983	145.3	546.5	26.6
1984	158.8	588.4	27.0
1985	171.0	599.0	28.5
1986	161.7	597.4	27.1
1987	162.3	615.5	26.4
1988	171.1	656.8	26.1
1989	171.2	664.4	25.8
1990	171.0	654.0	26.2
1991	177.1	634.7	27.9
1992	196.1	632.7	31.0
1993	222.5	639.4	34.8
1994	238.6	631.1	37.8
1995	246.6	658.6	37.4
1996	236.4	660.0	35.8
1997	267.8	701.5	38.2
1998	269.5	685.2	39.3
1999	280.8	697.0	40.3
2000	306.3	750.8	40.8
2001	301.0	753.5	39.9
2002	301.0	802.6	37.5
2003	318.5	862.4	36.9

Exports are of finished and semi-finished steel products. Production of finished steel, where not available from national sources, is calculated from crude steel production, taking into account the continuous casting ratio.

The figures include trade between the countries within the EU and NAFTA. Trade in 2003, excluding that within the EU and NAFTA, amounted to 232 mmt or 26.9% of world steel production.

World volume of trade - 1990 to 2003

Quantum Indices 1990 = 100



Iron ore

2003

(million metric tons actual weight)

Country	Fe content ¹	Production	- Exports	+ Imports	= Apparent Consumption
Austria	(32)	2.1	-	5.7	7.8
Belgium-Luxembourg	..	-	0.1	11.6	11.5
France	(33)	-	0.0	19.0	19.0
FR Germany	(28)	-	0.0	33.9	33.9
Italy	..	-	0.0	15.2	15.2
Netherlands	..	-	1.8	14.7	12.9
Spain	(48)	-	0.0	5.7	5.7
Sweden	(63)	21.5	16.0	0.1	5.6
United Kingdom	(27)	-	0.0	16.1	16.1
Other EU	..	-	0.0	4.2	4.2
European Union (15)		23.6	18.0	126.2	131.8
Czech Republic	(65)	-	-	8.2	8.2
Norway		0.4	0.5	0.2	0.0
Poland		-	0.0	8.8	8.8
Slovakia		0.3	-	5.6	5.9
Other Europe	..	4.2	0.1	17.6	21.7
Europe		28.5	18.6	166.6	176.5
CIS	(60)	171.2	47.3	18.3	142.2
Canada	(63)	33.2	27.1	6.6	12.7
Mexico	(65)	14.8	0.6	3.6	17.8
United States	(60)	48.5	6.8	12.4	54.2
NAFTA		96.5	34.5	22.7	84.7
Brazil	(66)	245.6	184.3	0.0	61.3
Chile	(61)	7.3	5.9	0.0	1.5
Peru	(60)	5.4	5.0	0.0	0.4
Venezuela	(64)	21.7	7.4	-	14.3
Other Central and South America	..	0.7	6.0	11.2	5.8
Central and South America		280.7	208.5	11.2	83.3
Mauritania	(65)	10.1	9.6	-	0.5
South Africa	(65)	38.1	24.0	0.9	14.9
Other Africa	..	5.0	0.4	8.2	12.9
Africa		53.2	34.0	9.1	28.3
Middle East		16.0	3.0	11.1	24.1
China	(28)	253.2	0.0	148.2	401.4
India	(61)	105.5	54.8	0.5	51.1
Japan	(57)	-	0.2	132.1	131.9
South Korea	..	0.3	0.0	41.3	41.5
Other Asia	..	2.4	4.5	30.1	28.0
Asia		361.4	59.5	352.1	654.0
Australia	(65)	212.9	186.1	1.4	28.1
New Zealand and Other Oceania	..	1.9	0.8	0.0	1.1
Oceania		214.8	186.9	1.4	29.1
World		1 222.3	592.5	592.5	1 222.3

¹ of domestic production: percentage Fe of total weight

World iron ore trade by area 2003

(million metric tons actual weight)

Exporting Region ▼	European Union (15)	Other Europe	former USSR	NAFTA	Central and South America	Africa and Middle East	Asia	Oceania	Total imports	Extra-regional imports ¹
European Union (15)	12.0	0.5	4.0	13.2	63.1	15.9	1.8	15.7	126.2	114.3
Other Europe	1.9	-	25.1	1.5	8.0	1.3	1.4	1.2	40.4	40.4
former USSR	0.0	-	17.7	-	0.3	-	-	0.3	18.3	0.6
NAFTA	0.1	0.0	-	13.6	5.3	-	0.0	0.1	19.1	5.5
Central and South America	0.0	0.0	-	0.4	14.4	-	0.0	0.0	14.8	0.4
Africa and Middle East	2.4	-	-	0.7	13.5	3.0	0.6	-	20.2	17.2
China	0.1	-	0.4	2.0	47.1	9.8	30.7	58.1	148.2	117.5
Japan	0.0	-	-	0.6	31.3	5.6	18.3	76.3	132.1	113.7
Other Asia	1.5	0.1	0.0	1.1	25.7	1.4	6.7	35.4	71.8	65.1
Oceania	0.0	-	-	0.7	0.6	-	0.0	0.0	1.4	1.4
Total exports	18.0	0.6	47.3	33.9	209.2	37.0	59.5	187.0	592.5	476.1
Extra-regional exports¹	6.0	0.6	29.6	20.3	194.8	34.0	3.8	187.0	476.1	
Net exports²	-108.2	-39.8	29.0	14.8	194.4	16.8	-12.3	185.6		

¹ Total exports minus intra-regional trade. Intra-regional trade is highlighted.

² Exports minus imports

Scrap: consumption, trade, and apparent domestic supply, 2003

(million metric tons)

Country	Consumption	- Imports	+ Exports	= Apparent Domestic Supply
Austria	1.7	0.9	0.9	1.6
Belgium-Luxembourg	7.7	4.9	3.7	6.4
Finland	2.1	0.9	0.4	1.6
France	10.2	3.0	5.0	12.2
FR Germany	19.1	4.4	6.7	21.5
Italy	20.3	4.4	0.2	16.1
Netherlands	1.5	1.8	3.3	3.0
Spain	14.5	6.4	0.1	8.2
Sweden	2.7	0.4	0.7	3.0
United Kingdom	4.8	0.1	7.2	11.9
Other EU	2.7	1.6	1.8	2.9
European Union (15)	87.2	28.8	30.0	88.4
Bulgaria	1.1	0.1	0.6	1.5
Czech Republic	2.8	0.5	1.1	3.4
Hungary	0.7	0.1	0.6	1.2
Poland	4.2	0.1	1.8	5.9
Romania	2.1	0.0	2.4	4.4
Slovakia	1.5	0.4	0.5	1.6
Turkey	14.9	12.8	0.0	2.1
Others	3.6	1.6	2.2	4.3
Other Europe	30.7	15.5	9.3	24.5
CIS	46.7	1.2	11.7	57.2
Canada	8.4	1.1	2.5	9.7
Mexico	11.5	1.8	0.5	10.2
United States	56.1	3.5	10.8	63.3
NAFTA	75.9	6.4	13.7	83.3
Argentina	1.8	0.0	0.0	1.9
Brazil	8.1	0.0	0.0	8.1
Venezuela	1.3	0.0	0.1	1.4
Other Central and South America	0.4	0.2	0.3	0.9
Central and South America	13.1	0.2	0.3	13.2
South Africa	1.9	0.1	0.4	2.2
Africa	1.9	0.1	0.4	2.2
China	50.5	10.5	0.0	40.0
Japan	45.1	0.2	5.7	50.7
South Korea	23.0	6.1	0.3	17.3
Taiwan, China	10.2	3.1	0.1	7.2
Other Asia	18.4	6.5	1.4	13.4
Asia	147.3	26.3	7.6	128.6
Australia	2.6	0.0	1.0	3.6
Oceania	2.6	0.0	1.0	3.6
World	405.5	78.6	74.0	400.9

Pig iron

2003 and 2004

(million metric tons)

Country	Production 2004	Production 2003	- Exports 2003	+ Imports 2003	= Apparent Consumption 2003
Austria	4.8	4.7	0.0	0.0	4.7
Belgium-Luxembourg	8.2	7.8	0.2	0.3	7.9
Czech Republic	5.4	5.2	-	-	5.2
Finland	3.0	3.1	0.0	0.0	3.1
France	13.2	13.0	0.0	0.3	13.2
FR Germany	30.0	29.5	0.1	0.2	29.6
Hungary	1.4	1.3	-	-	1.3
Italy	10.6	10.1	0.0	1.2	11.3
Netherlands	6.0	5.8	0.0	0.1	5.9
Poland	6.4	5.6	-	-	5.6
Portugal	-	-	0.0	0.0	0.0
Slovakia	3.8	3.9	-	-	3.9
Spain	4.0	3.6	0.0	0.4	4.1
Sweden	3.9	3.7	0.1	0.0	3.6
United Kingdom	10.2	10.2	0.0	0.1	10.3
European Union (25)	110.9	107.7	0.5	2.8	110.0
Bulgaria	1.4	1.4	-	0.0	1.4
Romania	4.2	4.1	-	-	4.1
Turkey	5.8	5.7	-	0.6	6.3
Others	1.2	0.8	0.0	0.0	0.9
Other Europe	12.7	12.0	0.0	0.7	12.7
Kazakhstan	4.3	4.1	0.0	0.0	4.1
Russia	50.3	48.3	4.6	0.0	43.7
Ukraine	31.1	29.5	0.3	0.9	30.2
CIS	85.7	82.0	4.9	0.9	78.0
Canada	8.8	8.6	0.1	0.1	8.5
Mexico	4.3	4.2	0.0	0.6	4.8
United States	40.6	40.6	0.1	3.9	44.4
NAFTA	53.7	53.4	0.2	4.6	57.8
Argentina	2.4	2.4	-	-	2.4
Brazil	34.6	32.0	-	-	32.0
Chile	1.1	1.0	-	-	1.0
Venezuela	-	-	-	-	0.0
Other Central and South America	0.7	0.6	-	-	0.6
Central and South America	38.8	36.0	-	-	36.0
Egypt	1.0	1.1	-	-	1.1
South Africa	6.0	6.2	-	-	6.2
Other Africa	1.1	1.2	0.0	-	1.1
Africa	8.2	8.5	0.0	-	8.5
Iran	2.1	2.2	-	-	2.2
Middle East	2.1	2.2	-	-	2.2
China	251.9	213.8	0.8	0.6	213.5
India	25.1	26.6	0.6	0.0	26.0
Japan	83.0	82.1	0.1	0.6	82.5
South Korea	27.6	27.3	-	-	27.3
Taiwan, China	10.4	10.3	-	-	10.3
Other Asia	1.5	1.4	0.1	1.0	2.4
Asia	399.3	361.4	1.6	2.2	362.0
Australia	5.7	6.1	0.0	0.0	6.1
New Zealand and other Oceania	0.7	0.7	0.0	0.0	0.7
Oceania	6.4	6.8	0.0	0.0	6.8
World	717.7	670.1	7.2	11.2	674.0

Direct reduced iron production 1999 to 2004

(million metric tons)

Country	1999	2000	2001	2002	2003	2004
FR Germany	0.4	0.5	0.2	0.5	0.6	0.6
Sweden	0.1	0.1	0.1	0.1	0.1	0.1
European Union (15)	0.5	0.6	0.3	0.7	0.7	0.7
Russia	1.9	1.9	2.5	2.9	2.9	3.1
CIS	1.9	1.9	2.5	2.9	2.9	3.1
Canada	0.9	1.1	0.0	0.2	0.5	1.1
Mexico	6.1	5.6	3.7	4.7	5.5	6.3
United States	1.7	1.6	0.1	0.5	0.2	0.2
NAFTA	8.7	8.3	3.8	5.4	6.2	7.6
Argentina	1.0	1.4	1.3	1.5	1.7	1.8
Brazil	0.4	0.4	0.3	0.4	0.4	0.4
Peru	0.0	0.1	0.1	0.0	0.1	0.1
Trinidad and Tobago	1.4	1.5	2.0	2.3	2.2	2.2
Venezuela	5.1	6.4	5.5	6.8	6.6	7.8
Central and South America	7.9	9.8	9.2	11.0	11.0	12.3
Egypt	1.7	2.1	2.4	2.5	2.9	3.0
Libya	1.3	1.5	1.1	1.2	1.3	1.6
Nigeria	0.0	0.0	0.0	0.0	0.0	0.0
South Africa	1.3	1.5	1.6	1.7	1.5	1.6
Africa	4.2	5.1	5.0	5.4	5.7	6.2
Iran	4.0	4.5	5.0	5.3	5.0	6.4
Qatar	0.7	0.6	0.7	0.8	0.8	0.8
Saudi Arabia	2.3	3.1	2.9	3.3	3.3	3.4
Middle East	7.0	8.2	8.6	9.3	9.1	10.7
China	0.1	0.1	0.1	0.2	0.3	0.4
India	5.3	5.5	5.7	5.7	7.1	9.1
Indonesia	1.7	1.7	1.5	1.4	1.2	1.5
Malaysia	1.0	1.2	1.0	1.1	1.6	1.7
Myanmar	0.0	0.0	0.0	0.0	0.0	0.0
Asia	8.1	8.6	8.4	8.5	10.2	12.7
Australia	0.3	0.3	1.4	1.0	2.0	0.7
Oceania	0.3	0.3	1.4	1.0	2.0	0.7
World	38.7	42.9	39.2	44.2	47.8	54.1

Apparent steel use 1998 to 2004

(million metric tons finished steel products)

Country	1998	1999	2000	2001	2002	2003	2004
Austria	2.9	2.7	2.9	3.0	3.1	3.1	3.4
Belgium-Luxembourg	4.3	3.9	4.1	3.3	3.3	3.2	3.4
France	16.6	16.5	18.0	16.5	16.4	15.7	16.6
FR Germany	34.6	35.2	37.0	35.6	34.3	34.3	35.9
Italy	29.3	29.6	30.5	30.4	30.2	31.6	32.4
Netherlands	5.6	5.1	4.7	4.5	3.8	3.4	3.8
Spain	15.6	17.5	17.4	18.9	19.3	21.1	21.2
Sweden	3.5	3.5	3.6	3.1	3.2	3.6	3.9
United Kingdom	14.5	13.5	13.6	13.6	12.9	12.8	14.0
Other EU (15)	10.2	9.8	11.2	10.8	11.7	11.3	11.3
European Union (15)	137.0	137.3	143.0	139.8	138.2	140.1	145.7
Czech Republic	3.7	3.3	3.9	4.0	4.2	4.4	5.1
Poland	6.6	6.7	7.6	7.1	7.1	7.7	8.3
Other new EU (10)	4.5	4.4	5.1	5.3	5.6	5.7	7.3
New EU (10)	14.7	14.4	16.6	16.4	16.9	17.8	20.7
European Union (25)	151.8	151.7	159.6	156.2	155.1	157.9	166.4
Romania	2.8	2.1	2.6	2.7	2.8	3.1	3.0
Turkey	12.1	11.0	12.7	11.0	12.3	14.6	16.6
Others	5.9	4.7	5.9	6.1	6.0	6.1	6.5
Other Europe	20.9	17.8	21.1	19.8	21.1	23.8	26.1
Russia	15.4	16.9	28.5	29.2	27.8	31.9	33.7
Ukraine	7.2	8.8	9.6	10.6	11.5	13.3	13.1
Other CIS	3.1	3.0	4.9	5.2	4.9	5.1	5.2
CIS	25.7	29.0	43.5	45.0	44.2	50.3	52.0
Canada	15.8	16.2	17.8	15.2	15.9	15.5	17.1
Mexico	12.6	12.8	14.1	13.1	13.8	14.3	15.6
United States	115.7	110.9	114.7	101.6	102.7	100.9	115.9
NAFTA	144.1	139.9	146.6	129.9	132.4	130.7	148.6
Argentina	3.8	3.1	3.0	2.6	1.7	2.9	3.6
Brazil	14.5	14.1	15.8	16.7	16.5	16.0	18.4
Venezuela	1.9	1.7	1.7	2.3	1.6	1.5	2.3
Other Central and South America	7.4	5.9	7.6	7.6	8.3	8.7	9.0
Central and South America	27.7	24.8	28.1	29.1	28.1	29.0	33.3
Egypt	4.6	5.1	4.0	4.4	3.7	3.8	4.0
South Africa	4.0	3.8	4.0	4.2	4.9	4.1	4.9
Other Africa	7.1	6.5	7.0	7.7	8.8	9.4	9.9
Africa	15.7	15.4	15.0	16.2	17.4	17.3	18.8
Iran	5.7	6.1	7.8	6.9	7.2	11.5	12.2
Other Middle East	10.1	10.1	10.0	12.4	14.1	14.9	15.4
Middle East	15.8	16.2	17.8	19.3	21.3	26.4	27.6
China	110.6	122.6	124.3	153.6	186.3	233.6	265.0
India	23.2	25.1	26.3	27.4	28.9	30.3	32.3
Japan	70.3	68.9	76.1	73.2	71.7	73.4	76.9
South Korea	24.7	33.8	38.5	38.3	43.7	45.8	47.2
Taiwan, China	20.2	20.4	21.1	17.4	20.4	19.9	22.1
Other Asia	26.9	31.0	35.2	38.8	42.5	40.7	43.7
Asia	275.9	301.7	321.5	348.7	393.5	443.6	487.2
Australia and New Zealand	6.7	6.7	6.4	6.3	7.1	7.5	8.0
Oceania	6.7	6.7	6.4	6.3	7.1	7.5	8.0
World	684.2	703.2	759.6	770.4	820.3	886.4	967.9

About IISI

The International Iron and Steel Institute (IISI) is a non-profit research organisation which serves as a world forum for the international steel industry. IISI was founded in 1967. IISI has now grown to become one of the largest and most dynamic industry associations in the world. Its headquarters are located in Brussels, Belgium.

IISI undertakes research into economic, financial, technological, environmental, and promotional aspects of world steel. IISI also collects, evaluates, and disseminates world steel statistics.

More information about IISI and its programmes can be found at www.worldsteel.org.

IISI statistics

World Steel in Figures is just one of IISI's statistical publications. World Steel in Figures can be ordered from the IISI Bookshop or it can be downloaded for free from IISI's website.

Each month IISI publishes statistics for world crude steel production and world iron production. The statistics are published on our website.

In November of each year, IISI publishes the Steel Statistical Yearbook. This publication contains a wide range of statistics. The Steel Statistical Yearbook can also be downloaded for free from www.worldsteel.org.

Media enquiries

Media enquiries should be directed to:

John Fewtrell
General Manager, Communications
International Iron and Steel Institute (IISI)
Rue Colonel Bourg 120
B-1140 Brussels
Belgium

Telephone: +32 2 702 89 00

Fax: +32 2 702 88 99

E-mail: press@iisi.be

worldsteel.org

International Iron and Steel Institute (IISI)
Rue Colonel Bourg 120
B-1140 Brussels
Belgium

Tel: +32 2 702 8927
Fax: +32 2 702 8899