

Mineral Industry Surveys

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TUNGSTEN IN JULY, AUGUST, AND SEPTEMBER 2008

During the quarter ending September 30, 2008, U.S. net production of intermediate tungsten products, including metal powder and tungsten carbide powder, was slightly less than net production during the quarter ending June 30, 2008, according to the U.S. Geological Survey. U.S. net production during the first three quarters of 2008 was 9% higher than net production during the first three quarters of 2007 (revised).

Total U.S. reported consumption of ferrotungsten, tungsten metal powder, tungsten carbide powder, tungsten scrap, and other tungsten materials during the quarter ending September 30, 2008, was slightly higher than that consumed during the quarter ending June 30, 2008. U.S. reported consumption of these materials during the first three quarters of 2008 was 4% higher than reported consumption during the same period in 2007 (revised). The materials were used to make alloys, cemented carbides, mill products, and other products, such as catalysts and pigments.

Data for U.S. imports and exports of tungsten for January through August 2008 and full year 2007 totals by material are published in this issue.

Update

Selected prices from Metal Bulletin for August, September, and October 2008 are listed below. U.S. ammonium paratungstate prices in dollars per metric ton unit were converted from short-ton-unit prices and rounded to the nearest dollar. Prices for tungsten ore concentrates represent combined

prices for wolframite and scheelite concentrates with a minimum tungsten trioxide (WO₃) content of 65%. Concentrate prices in dollars per short ton unit were converted from metric-ton-unit prices and rounded to the nearest dollar.

Ammonium paratungstate, U.S. free market:

August:

Low—\$276/metric ton unit WO₃ (\$250/short ton unit WO₃)
High—\$281/metric ton unit WO₃ (\$255/short ton unit WO₃)

September:

Low—\$276/metric ton unit WO₃ (\$250/short ton unit WO₃)
High—\$281/metric ton unit WO₃ (\$255/short ton unit WO₃)

October:

Low—\$276/metric ton unit WO₃ (\$250/short ton unit WO₃)
High—\$281/metric ton unit WO₃ (\$255/short ton unit WO₃)

Concentrates:

August:

Low—\$160/metric ton unit WO₃ (\$145/short ton unit WO₃)
High—\$170/metric ton unit WO₃ (\$154/short ton unit WO₃)

September:

Low—\$160/metric ton unit WO₃ (\$145/short ton unit WO₃)
High—\$170/metric ton unit WO₃ (\$154/short ton unit WO₃)

October:

Low—\$160/metric ton unit WO₃ (\$145/short ton unit WO₃)
High—\$170/metric ton unit WO₃ (\$154/short ton unit WO₃)

TABLE 1
U.S. SALIENT TUNGSTEN STATISTICS¹

(Metric tons, tungsten content)

Period	Concentrate				Reported scrap consumption	Intermediate products			
	Reported consump- tion	Imports for consumption	Stocks, end of period Industry ²	U.S. Gov- ernment ³		Net production ⁴	Reported consump- tion ⁵	Stocks, end of period Industry ⁶	U.S. Gov- ernment ³
2007:									
July	W	344	W	21,400	325	545	769	697	266
August	W	315	W	21,400	309	688	949	800	268
September	W	344	W	21,300	256	831	1,030	780	268
October	W	299	W	21,300	494	609	826	794	268
November	W	315	W	21,200	348	654	917	745	235
December	W	189	W	21,200	283	697	908	825	235
January-December	W	3,880	XX	XX	4,230	8,360	11,100	XX	XX
2008:									
January	W	221	W	21,200	318	818	1,020	796	235
February	W	383	W	21,200	360	650	983	738	235
March	W	339	W	21,200	373	788	996	685	235
April	W	252	W	21,100	498	802	970	728	235
May	W	378	W	20,900	417	811	962	794	235
June	W	344	W	20,800	455	756	971	772	235
July	W	400	W	20,500	298	829	968	747	196
August	W	224	W	20,400	450	749	1,010	734	196
September	W	314	W	19,800	317	790	947	685	183
Total	W	2,860	XX	XX	3,490	6,990	8,820	XX	XX

W Withheld to avoid disclosing company proprietary data. XX Not applicable.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Reported by consumers.

³Data from Defense National Stockpile Center. Data are uncommitted material only.

⁴Net production of tungsten metal powder and tungsten carbide powder.

⁵Includes estimates and scrap.

⁶Data for tungsten metal powder and tungsten carbide powder reported by producers.

TABLE 2
U.S. PRODUCTION, CONSUMPTION, AND STOCKS OF
AMMONIUM PARATUNGSTATE, BY MONTH¹

(Metric tons, tungsten content)

Period	Production	Consumption	Stocks, end of period ²
2007:			
July	W	(3)	W
August	W	1,050	W
September	W	1,100	W
October	W	1,010	W
November	W	958	W
December	W	(3)	83
January-December	W	12,000	XX
2008:			
January	W	1,250	73
February	W	1,220	36
March	W	1,130	W
April	W	(3)	147
May	W	(3)	112
June	W	1,280	85
July	W	(3)	W
August	W	827	W
September	W	1,160	87
Total	W	10,200	XX

W Withheld to avoid disclosing company proprietary data.

XX Not applicable.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Producers and consumers.

³Withheld to avoid disclosing company proprietary data; included in "Total."

TABLE 3a
U.S. PRODUCTION AND STOCKS OF TUNGSTEN PRODUCTS THROUGH JULY 2008¹

(Metric tons, tungsten content)

Product ³	Net production ²				Stocks at end of period		
	2008				2008		
	2007	June	July	Year to date	2007	June	July
Metal powder	3,880	305	433	2,430	406	392	331
Tungsten carbide powder	4,480	452	396	3,030	419	379	415
Total	8,360	756	829	5,460	825	772	747

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Receipts plus gross production less quantity used to make other products in table.

³Data for cast and crystalline tungsten carbide powder and tungsten chemicals are withheld to avoid disclosing company proprietary data; not included in "Total."

TABLE 3b
U.S. PRODUCTION AND STOCKS OF TUNGSTEN PRODUCTS THROUGH AUGUST 2008¹

(Metric tons, tungsten content)

Product ³	Net production ²				Stocks at end of period		
	2008				2008		
	2007	July	August	Year to date	2007	July	August
Metal powder	3,880	433	327	2,750	406	331	321
Tungsten carbide powder	4,480	396	423	3,450	419	415	413
Total	8,360	829	749	6,200	825	747	734

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Receipts plus gross production less quantity used to make other products in table.

³Data for cast and crystalline tungsten carbide powder and tungsten chemicals are withheld to avoid disclosing company proprietary data; not included in "Total."

TABLE 3c
U.S. PRODUCTION AND STOCKS OF TUNGSTEN PRODUCTS THROUGH SEPTEMBER 2008¹

(Metric tons, tungsten content)

Product ³	Net production ²				Stocks at end of period		
	2008				2008		
	2007	August	September	Year to date	2007	August	September
Metal powder	3,880	327	349	3,100	406	321	296
Tungsten carbide powder	4,480	423	441	3,890	419	413	389
Total	8,360	749	790	6,990	825	734	685

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Receipts plus gross production less quantity used to make other products in table.

³Data for cast and crystalline tungsten carbide powder and tungsten chemicals are withheld to avoid disclosing company proprietary data; not included in "Total."

TABLE 4
U.S. REPORTED CONSUMPTION OF TUNGSTEN, BY END USE^{1, 2, 3}

(Metric tons, tungsten content)

End use	2008			
	July	August	September	Year to date
Steels	23	23	23	200
Superalloys	W	W	W	W
Other alloys (excludes steels and superalloys) ⁴	W	W	W	W
Cemented carbides ⁵	500	506	505	4,560
Mill products made from metal powder	W	W	W	W
Chemical uses	W	W	W	W
Miscellaneous and unspecified	445	478	419	4,060
Total	968	1,010	947	8,820

W Withheld to avoid disclosing company proprietary data; included with "Miscellaneous and unspecified."

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Does not include materials used in making primary tungsten products.

³Includes estimates.

⁴Includes welding and hard-facing rods and materials, wear- and corrosion-resistant alloys, and nonferrous alloys.

⁵Includes diamond tool matrices, cemented and sintered carbides, and cast carbide dies or parts.

TABLE 5
U.S. REPORTED CONSUMPTION AND CONSUMER STOCKS OF TUNGSTEN MATERIALS¹

(Metric tons, tungsten content)

Period	Ferro- tungsten	Tungsten metal powder	Tungsten carbide powder	Tungsten scrap	Other tungsten materials ²	Total
Consumption:						
2007:						
July	20	W	516	W	6	769
August	20	W	518	W	6	949
September	20	W	512	W	6	1,030
October	20	W	516	W	6	826
November	20	W	512	W	6	917
December	20	W	505	W	6	908
January-December	236	W	6,200	W	72	11,100
2008:						
January	19	W	518	W	6	1,020
February	19	W	516	W	6	983
March	19	W	519	W	6	996
April	20	W	520	W	6	970
May	19	W	514	W	6	962
June	20	W	511	W	9	971
July	20	W	507	W	10	968
August	20	W	514	W	9	1,010
September	20	W	512	W	16	947
Total	177	W	4,630	W	74	8,820
Stocks:						
2007:						
July	17	27	402	23	9	478
August	16	27	395	23	9	468
September	14	27	624	23	9	696
October	16	27	405	23	9	479
November	15	27	401	23	9	474
December	14	27	398	25	9	472
2008:						
January	16	27	399	30	9	480
February	15	27	395	29	9	474
March	17	26	397	30	9	478
April	16	27	397	31	9	480
May	17	27	395	28	9	475
June	17	27	399	30	9	482
July	18	27	405	33	9	492
August	17	27	402	37	9	492
September	17	27	398	55	9	506

W Withheld to avoid disclosing company proprietary data; included in "Total."

¹Includes estimates.

²Includes tungsten chemicals.

TABLE 6a
U.S. IMPORTS FOR CONSUMPTION OF TUNGSTEN THROUGH JUNE 2008, BY COUNTRY¹

(Metric tons, tungsten content)

Period and country of origin	Ores and concentrates	Ammonium tungstates	Ferro-tungsten	Metal powder	Tungsten carbide powder	Other ²	Total	Total, year to date
2007	3,880	2,700	357	1,480	1,450	1,670	11,500	XX
2008:								
April	252	312	--	128	86	131	910	3,490
May	378	87	31	134	97	209	936	4,430
June:								
Austria	--	--	--	--	--	2	2	13
Belgium	--	--	--	--	--	1	1	5
Bolivia	69	--	--	--	--	--	69	501
Brazil	10	--	--	--	--	--	10	120
Canada	128	--	--	10	38	--	176	725
China	--	285	15	8	81	147	537	2,380
Czech Republic	--	--	--	(3)	(3)	(3)	1	17
France	--	--	--	--	1	(3)	1	4
Germany	--	17	--	52	14	7	90	339
Hong Kong	--	--	--	--	--	1	1	67
India	--	--	--	--	(3)	5	5	22
Israel	--	--	--	19	6	2	27	251
Japan	--	--	--	3	(3)	5	8	28
Korea, Republic of	--	--	--	14	5	--	19	78
Mexico	--	--	--	--	--	--	--	6
Mongolia	16	--	--	--	--	--	16	28
Netherlands	--	--	--	--	--	4	4	8
Peru	36	--	--	--	--	--	36	191
Portugal	41	--	--	--	--	--	41	402
Russia	--	--	--	--	--	1	1	67
Rwanda	10	--	--	--	--	--	10	66
Singapore	--	--	--	--	--	1	1	8
South Africa	--	--	--	--	--	--	--	11
Spain	10	--	--	--	--	(3)	10	10
Sweden	--	--	--	--	10	(3)	10	77
Thailand	14	--	--	--	--	--	14	73
Uganda	9	--	--	--	--	--	9	20
United Kingdom	--	--	--	(3)	--	(3)	(3)	7
Vietnam	--	--	--	--	--	10	10	10
Other	--	--	--	--	(3)	(3)	(3)	5
Total	344	303	15	106	156	186	1,110	5,540
Total, year to date	1,920	1,100	227	601	761	935	5,540	XX

XX Not applicable. -- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes other unwrought tungsten, wrought tungsten, calcium and other tungstates, tungsten oxides, tungsten chlorides, other tungsten compounds, ash and residues containing mainly tungsten, and other mixtures of inorganic compounds containing tungsten. Tungsten content estimated in part.

³Less than ½ unit.

Note: Imports of waste and scrap in June 2008 totaled 131 metric tons, tungsten content, to give a year-to-date total of 567 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 6b
U.S. IMPORTS FOR CONSUMPTION OF TUNGSTEN THROUGH JULY 2008, BY COUNTRY¹

(Metric tons, tungsten content)

Period and country of origin	Ores and concentrates	Ammonium tungstates	Ferrotungsten	Metal powder	Tungsten carbide powder	Other ²	Total	Total, year to date
2007	3,880	2,700	357	1,480	1,450	1,670	11,500	XX
2008:								
May	378	87	31	134	97	209	936	4,430
June	344	303	15	106	156	186	1,110	5,540
July:								
Austria	--	--	--	--	--	2	2	15
Belgium	--	--	--	--	1	(3)	1	6
Bolivia	129	--	--	--	--	--	129	630
Brazil	20	--	--	--	--	(3)	20	140
Canada	87	--	--	9	27	--	123	848
China	--	247	--	12	89	250	598	2,970
Czech Republic	--	--	--	(3)	3	(3)	4	21
France	--	--	--	--	(3)	1	1	5
Germany	--	--	--	39	20	7	66	406
Hong Kong	--	--	--	--	--	(3)	(3)	67
India	--	--	--	--	(3)	5	5	27
Israel	--	--	--	46	11	1	58	309
Japan	--	--	--	(3)	(3)	4	4	32
Korea, Republic of	--	--	--	21	1	(3)	23	101
Mexico	--	--	--	--	--	(3)	(3)	6
Mongolia	--	--	--	--	--	--	--	28
Netherlands	--	--	--	--	--	20	20	28
Peru	37	--	--	--	--	--	37	227
Portugal	93	--	--	--	--	--	93	495
Russia	--	--	--	--	--	1	1	68
Rwanda	--	--	--	--	--	--	--	66
Singapore	--	--	--	--	--	1	1	9
South Africa	--	--	--	--	--	--	--	11
Spain	20	--	--	--	--	(3)	20	30
Sweden	--	--	--	--	51	(3)	51	127
Thailand	15	--	--	--	--	--	15	88
Uganda	--	--	--	--	--	--	--	20
United Kingdom	--	--	--	(3)	--	(3)	(3)	8
Vietnam	--	--	--	--	--	--	--	10
Other	--	--	--	--	--	(3)	(3)	6
Total	400	247	--	127	203	293	1,270	6,810
Total, year to date	2,320	1,350	227	728	964	1,230	6,810	XX

XX Not applicable. -- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes other unwrought tungsten, wrought tungsten, calcium and other tungstates, tungsten oxides, tungsten chlorides, other tungsten compounds, ash and residues containing mainly tungsten, and other mixtures of inorganic compounds containing tungsten. Tungsten content estimated in part.

³Less than ½ unit.

Note: Imports of waste and scrap in July 2008 totaled 143 metric tons, tungsten content, to give a year-to-date total of 711 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 6c
U.S. IMPORTS FOR CONSUMPTION OF TUNGSTEN THROUGH AUGUST 2008, BY COUNTRY¹

(Metric tons, tungsten content)

Period and country of origin	Ores and concentrates	Ammonium tungstates	Ferrotungsten	Metal powder	Tungsten carbide powder	Other ²	Total	Total, year to date
2007	3,880	2,700	357	1,480	1,450	1,670	11,500	XX
2008:								
June	344	303	15	106	156	186	1,110	5,540
July	400	247	--	127	203	293	1,270	6,810
August:								
Austria	--	--	--	--	--	4	4	19
Belgium	--	--	--	--	(3)	(3)	1	6
Bolivia	56	--	--	--	--	--	56	686
Brazil	--	--	--	--	--	--	--	140
Canada	30	--	--	10	19	--	59	907
China	--	165	23	6	34	127	356	3,330
Czech Republic	--	--	--	2	--	(3)	3	23
France	--	--	--	--	(3)	(3)	(3)	6
Germany	--	15	--	31	23	5	74	480
Hong Kong	--	--	--	--	--	(3)	(3)	68
India	--	--	--	--	1	5	6	33
Israel	--	--	--	32	9	1	42	351
Japan	--	--	--	2	--	4	6	39
Korea, Republic of	--	--	--	8	1	(3)	9	110
Mexico	--	--	--	--	--	(3)	(3)	6
Mongolia	--	--	--	--	--	--	--	28
Netherlands	--	--	--	--	--	(3)	(3)	28
Peru	36	--	--	--	--	--	36	263
Portugal	83	--	--	--	--	--	83	578
Russia	--	--	--	--	--	(3)	(3)	68
Rwanda	--	--	--	--	--	--	--	66
Singapore	--	--	--	--	--	--	--	11
South Africa	--	--	--	--	--	--	--	11
Spain	20	--	--	--	--	(3)	20	30
Sweden	--	--	--	--	--	(3)	(3)	127
Thailand	--	--	--	--	--	--	--	88
Uganda	--	--	--	--	--	--	--	20
United Kingdom	--	--	--	(3)	--	(3)	(3)	8
Vietnam	--	--	--	--	--	--	--	10
Other	--	--	--	--	--	(3)	(3)	6
Total	224	180	23	91	88	150	757	7,570
Total, year to date	2,540	1,530	250	819	1,050	1,380	7,570	XX

XX Not applicable. -- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes other unwrought tungsten, wrought tungsten, calcium and other tungstates, tungsten oxides, tungsten chlorides, other tungsten compounds, ash and residues containing mainly tungsten, and other mixtures of inorganic compounds containing tungsten. Tungsten content estimated in part.

³Less than ½ unit.

Note: Imports of waste and scrap in August 2008 totaled 71 metric tons, tungsten content, to give a year-to-date total of 781 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 7a
U.S. EXPORTS OF TUNGSTEN THROUGH JUNE 2008, BY COUNTRY ¹

(Metric tons, tungsten content)

Period and country of destination	Ores and concentrates ²	Ammonium tungstates	Metal powder ²	Tungsten carbide powder	Other ³	Total	Total, year to date
2007	109	731	1,050	1,280	1,270	4,440	XX
2008:							
April	(4)	47	87	75	69	279	1,410
May	(4)	19	52	119	84	274	1,690
June:							
Australia	--	--	(4)	1	1	2	16
Austria	--	--	(4)	18	--	18	115
Brazil	--	--	3	(4)	(4)	3	32
Canada	--	--	7	9	17	33	222
Chile	--	--	--	(4)	4	4	5
China	(4)	--	1	(4)	2	4	28
Czech Republic	--	--	--	--	1	1	13
France	--	--	3	10	1	14	151
Germany	--	38	18	40	14	110	686
Hungary	--	--	--	--	3	3	10
India	--	--	--	6	9	15	35
Ireland	--	--	--	3	2	5	16
Israel	--	--	--	9	1	9	16
Italy	--	--	1	2	1	4	18
Japan	--	--	(4)	2	5	7	60
Korea, Republic of	--	--	1	1	(4)	2	5
Mexico	--	--	40	(4)	3	43	242
Philippines	--	--	--	(4)	(4)	(4)	5
Singapore	--	--	4	(4)	2	7	40
South Africa	--	--	(4)	2	2	4	18
Spain	--	--	(4)	--	1	1	4
Sweden	--	--	--	--	(4)	(4)	3
Switzerland	--	--	--	1	--	1	5
Taiwan	--	--	--	29	8	37	109
United Kingdom	--	--	3	36	9	49	162
Venezuela	--	--	(4)	1	--	1	27
Other	--	--	2	2	1	4	24
Total	(4)	38	85	171	88	382	2,070
Total, year to date	4	291	524	777	472	2,070	XX

XX Not applicable. -- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Tungsten content estimated from reported gross weight.

³Includes unwrought tungsten, including bars and rods obtained simply by sintering, wrought tungsten, ferrotungsten, and other tungstates. Tungsten content estimated in part.

⁴Less than ½ unit.

Note: Estimated exports of waste and scrap in June 2008 totaled 59 metric tons, tungsten content, to give a year-to-date total of 794 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 7b
U.S. EXPORTS OF TUNGSTEN THROUGH JULY 2008, BY COUNTRY ¹

(Metric tons, tungsten content)

Period and country of destination	Ores and concentrates ²	Ammonium tungstates	Metal powder ²	Tungsten carbide powder	Other ³	Total	Total, year to date
2007	109	731	1,050	1,280	1,270	4,440	XX
2008:							
May	(4)	19	52	119	84	274	1,690
June	(4)	38	85	171	88	382	2,070
July:							
Australia	--	--	(4)	4	2	7	22
Austria	--	--	--	19	--	19	134
Brazil	--	--	6	(4)	4	11	42
Canada	--	--	10	11	17	39	260
Chile	--	--	(4)	--	--	(4)	5
China	--	--	3	1	1	5	33
Czech Republic	--	--	--	--	2	2	15
France	--	--	1	14	(4)	16	167
Germany	--	19	11	19	16	64	750
Hungary	--	--	--	--	1	1	11
India	--	--	(4)	(4)	3	3	38
Ireland	--	--	--	1	17	19	35
Israel	--	--	(4)	--	5	5	21
Italy	--	--	2	(4)	(4)	2	20
Japan	--	--	1	2	7	10	70
Korea, Republic of	--	--	(4)	(4)	(4)	1	6
Mexico	--	--	16	(4)	2	18	260
Netherlands	--	--	--	--	(4)	(4)	3
Philippines	--	--	--	--	--	--	5
Singapore	--	--	2	1	(4)	3	43
South Africa	--	--	(4)	(4)	--	1	18
Spain	--	--	--	--	(4)	(4)	4
Sweden	--	--	--	--	(4)	(4)	3
Switzerland	--	--	(4)	--	(4)	(4)	5
Taiwan	--	1	--	2	--	3	112
United Kingdom	--	--	2	22	2	25	188
Venezuela	--	--	(4)	2	6	8	34
Other	(4)	--	2	2	3	6	28
Total	(4)	20	57	102	86	265	2,330
Total, year to date	4	310	581	879	559	2,330	XX

XX Not applicable. -- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Tungsten content estimated from reported gross weight.

³Includes unwrought tungsten, including bars and rods obtained simply by sintering, wrought tungsten, ferrotungsten, and other tungstates. Tungsten content estimated in part.

⁴Less than ½ unit.

Note: Estimated exports of waste and scrap in July 2008 totaled 59 metric tons, tungsten content, to give a year-to-date total of 853 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 7c
U.S. EXPORTS OF TUNGSTEN THROUGH AUGUST 2008, BY COUNTRY¹

(Metric tons, tungsten content)

Period and country of destination	Ores and concentrates ²	Ammonium tungstates	Metal powder ²	Tungsten carbide powder	Other ³	Total	Total, year to date
2007	109	731	1,050	1,280	1,270	4,440	XX
2008:							
June	(4)	38	85	171	88	382	2,070
July	(4)	20	57	102	86	265	2,330
August:							
Australia	--	--	(4)	5	(4)	5	27
Austria	--	--	--	--	--	--	134
Belgium	--	--	3	(4)	(4)	3	7
Brazil	--	--	4	--	1	5	47
Canada	--	--	11	9	12	32	293
Chile	--	--	1	(4)	(4)	1	6
China	46	--	1	(4)	2	49	82
Columbia	--	--	2	--	(4)	2	3
Czech Republic	--	--	--	--	2	2	17
France	--	--	2	23	(4)	25	192
Germany	--	39	32	60	15	145	895
Hong Kong	--	--	(4)	4	--	4	5
Hungary	--	--	--	--	1	1	12
India	--	--	1	--	1	2	40
Ireland	--	--	--	(4)	--	(4)	35
Israel	--	--	(4)	10	3	13	35
Italy	--	--	(4)	--	1	1	22
Japan	--	--	(4)	(4)	7	8	78
Korea, Republic of	--	--	1	--	(4)	1	7
Mexico	--	--	52	(4)	2	54	314
Netherlands	--	--	--	1	17	18	21
Peru	--	--	(4)	--	--	(4)	5
Philippines	--	--	--	--	--	--	5
Singapore	--	--	1	1	1	3	46
South Africa	--	--	(4)	--	(4)	(4)	18
Spain	--	--	(4)	--	1	1	5
Sweden	--	--	--	(4)	(4)	(4)	3
Switzerland	--	--	--	1	(4)	1	6
Taiwan	--	1	--	3	8	12	124
United Arab Emirates	--	--	1	--	(4)	1	3
United Kingdom	--	--	2	13	3	18	206
Venezuela	--	--	(4)	5	--	5	40
Other	--	--	(4)	(4)	(4)	1	14
Total	46	39	114	136	78	413	2,750
Total, year to date	50	349	695	1,010	637	2,750	XX

XX Not applicable. -- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Tungsten content estimated from reported gross weight.

³Includes unwrought tungsten, including bars and rods obtained simply by sintering, wrought tungsten, ferrotungsten, and other tungstates. Tungsten content estimated in part.

⁴Less than ½ unit.

Note: Estimated exports of waste and scrap in August 2008 totaled 202 metric tons, tungsten content, to give a year-to-date total of 1,060 metric tons, tungsten content.

Source: U.S. Census Bureau.