

Mineral Industry Surveys

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TUNGSTEN IN OCTOBER, NOVEMBER, AND DECEMBER 2008

On the basis of preliminary data, U.S. net production of intermediate tungsten products, including metal powder and tungsten carbide powder, in 2008 was 9% higher than that produced in 2007, according to the U.S. Geological Survey. U.S. net production of intermediate tungsten products during the quarter ending December 31, 2008, was 12% lower than net production during the quarter ending September 30, 2008.

Total U.S. reported consumption of ferrotungsten, tungsten metal powder, tungsten carbide powder, tungsten scrap, and other tungsten materials in 2008 was 5% higher than reported consumption in 2007. U.S. reported consumption of these materials during the quarter ending December 31, 2008, was 3% lower than that consumed during the quarter ending September 30, 2008. 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 November 2008 and full year 2007 totals by material are published in this issue.

Prices

Selected prices from Metal Bulletin for November and December 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:

November:

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

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

December:

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

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

Concentrates:

November:

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

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

December:

Low—\$140/metric ton unit WO₃ (\$127/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 consumption	Imports for consumption	Stocks, end of period Industry ²	U.S. Government ³		Net production ⁴	Reported consumption ⁵	Stocks, end of period Industry ⁶	U.S. Government ³
2007:									
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
October	W	393	W	19,700	497	796	944	753	183
November	W	432	W	19,700	306	632	940	733	183
December	W	312	W	19,700	306	645	944	733	183
Total	W	3,990	XX	XX	4,590	9,070	11,600	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:			
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
October	W	1,190	120
November	W	(3)	W
December	W	851	72
Total	W	13,100	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 OCTOBER 2008¹

(Metric tons, tungsten content)

Product ³	Net production ²				Stocks at end of period		
	2008				2008		
	2007	September	October	Year to date	2007	September	October
Metal powder	3,880	349	373	3,470	406	296	344
Tungsten carbide powder	4,480	441	423	4,320	419	389	409
Total	8,360	790	796	7,790	825	685	753

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 NOVEMBER 2008¹

(Metric tons, tungsten content)

Product ³	Net production ²				Stocks at end of period		
	2008				2008		
	2007	October	November	Year to date	2007	October	November
Metal powder	3,880	373	332	3,810	406	344	363
Tungsten carbide powder	4,480	423	300	4,620	419	409	370
Total	8,360	796	632	8,420	825	753	733

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 DECEMBER 2008¹

(Metric tons, tungsten content)

Product ³	Net production ²				Stocks at end of period		
	2008				2008		
	2007	November	December	Year to date	2007	November	December
Metal powder	3,880	332	351	4,160	406	363	385
Tungsten carbide powder	4,480	300	294	4,910	419	370	349
Total	8,360	632	645	9,070	825	733	733

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			
	October	November	December	Year to date
Steels	23	23	23	267
Superalloys	W	W	W	W
Other alloys (excludes steels and superalloys) ⁴	W	W	W	W
Cemented carbides ⁵	508	508	502	6,080
Mill products made from metal powder	W	W	W	W
Chemical uses	W	W	W	W
Miscellaneous and unspecified	413	409	419	5,300
Total	944	940	944	11,600

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:						
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
October	20	W	515	W	9	944
November	20	W	516	W	9	940
December	20	W	510	W	14	944
Total	237	W	6,170	W	105	11,600
Stocks:						
2007:						
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
October	17	27	400	64	9	516
November	17	27	397	46	9	496
December	17	27	424	43	9	520

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 SEPTEMBER 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:								
July	400	247	--	127	203	293	1,270	6,810
August	224	181	23	91	88	150	757	7,570
September:								
Austria	--	--	--	--	--	4	4	23
Belgium	--	--	--	--	(3)	1	1	7
Bolivia	113	--	--	--	--	--	113	799
Brazil	15	--	--	--	--	--	15	155
Canada	63	--	--	1	46	--	110	1,020
China	--	191	23	12	123	189	538	3,870
Czech Republic	--	--	--	(3)	--	(3)	1	24
France	--	--	--	--	(3)	(3)	(3)	6
Germany	--	22	--	26	18	3	69	549
Hong Kong	--	--	--	--	--	1	1	69
India	--	--	--	--	--	5	5	38
Israel	--	--	--	17	16	1	33	384
Japan	--	--	--	--	--	5	5	44
Korea, Republic of	--	--	--	28	--	(3)	28	138
Mexico	5	--	--	--	--	--	5	11
Mongolia	--	--	--	--	--	--	--	28
Netherlands	--	--	--	--	--	1	1	28
Peru	37	--	--	--	--	--	37	300
Portugal	21	--	--	--	--	--	21	598
Russia	--	--	--	--	--	1	1	69
Rwanda	16	--	--	--	--	--	16	82
Singapore	--	--	--	--	--	2	2	13
South Africa	--	--	--	--	--	--	--	11
Spain	20	--	--	--	--	(3)	20	69
Sweden	--	--	--	--	20	(3)	20	147
Thailand	15	--	--	--	--	--	15	102
Uganda	10	--	--	--	--	--	10	30
United Kingdom	--	--	--	--	--	1	1	9
Vietnam	--	--	--	--	--	--	--	10
Other	--	--	--	--	(3)	(3)	1	6
Total	314	213	23	83	224	213	1,070	8,630
Total, year to date	2,860	1,740	273	901	1,280	1,590	8,630	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 September 2008 totaled 114 metric tons, tungsten content, to give a year-to-date total of 895 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 6b
U.S. IMPORTS FOR CONSUMPTION OF TUNGSTEN THROUGH OCTOBER 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:								
August	224	181	23	91	88	150	757	7,570
September	314	213	23	83	224	213	1,070	8,630
October:								
Austria	--	--	--	--	1	2	2	25
Belgium	--	--	--	--	(3)	1	1	8
Bolivia	137	--	--	--	--	--	137	937
Brazil	--	--	--	--	--	(3)	(3)	155
Canada	28	--	--	--	27	--	55	1,070
China	--	122	13	29	47	154	365	4,230
Czech Republic	--	--	--	(3)	--	1	1	25
France	--	--	--	--	(3)	(3)	(3)	6
Germany	--	--	--	20	10	3	34	583
Hong Kong	--	--	--	--	12	(3)	12	81
India	--	--	--	--	1	3	4	42
Israel	--	--	--	32	13	(3)	45	429
Japan	--	--	--	5	(3)	9	14	58
Korea, Republic of	--	--	--	25	2	--	27	165
Mexico	--	--	--	--	--	--	--	11
Mongolia	23	--	--	--	--	--	23	51
Netherlands	--	--	--	--	--	1	1	30
Peru	37	--	--	--	--	--	37	337
Portugal	113	--	--	--	--	--	113	712
Russia	--	--	--	--	--	1	1	70
Rwanda	10	--	--	--	--	--	10	92
Singapore	--	--	--	--	--	2	2	15
South Africa	--	--	--	--	--	9	9	21
Spain	29	--	--	--	--	(3)	29	98
Sweden	--	--	8	--	15	(3)	23	170
Thailand	15	--	--	--	--	--	15	117
Uganda	--	--	--	--	--	--	--	30
United Kingdom	--	--	--	--	--	(3)	(3)	9
Vietnam	--	--	--	--	--	--	--	10
Other	--	--	--	--	--	(3)	(3)	7
Total	393	122	21	111	128	188	963	9,600
Total, year to date	3,250	1,860	293	1,010	1,400	1,780	9,600	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 October 2008 totaled 135 metric tons, tungsten content, to give a year-to-date total of 1,030 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 6c
U.S. IMPORTS FOR CONSUMPTION OF TUNGSTEN THROUGH NOVEMBER 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:								
September	314	213	23	83	224	213	1,070	8,630
October	393	122	21	111	128	188	963	9,600
November:								
Austria	--	--	--	--	(3)	1	1	26
Belgium	--	--	--	--	(3)	(3)	(3)	9
Bolivia	88	--	--	--	--	--	88	1,020
Brazil	--	--	--	--	--	--	--	155
Canada	175	--	--	1	9	--	185	1,260
China	11	342	16	24	86	170	649	4,880
Czech Republic	--	--	--	(3)	--	1	1	25
France	--	--	--	--	--	(3)	(3)	7
Germany	--	5	--	15	12	10	42	625
Hong Kong	--	--	--	--	--	(3)	(3)	81
India	--	--	--	--	--	3	3	45
Israel	--	--	--	10	--	1	11	440
Japan	--	--	--	(3)	--	7	7	65
Korea, Republic of	--	--	--	13	1	(3)	15	179
Mexico	3	--	--	--	--	--	3	14
Mongolia	--	--	--	--	--	--	--	51
Netherlands	--	--	--	--	--	(3)	(3)	30
Peru	27	--	--	--	--	--	27	364
Portugal	72	--	--	--	--	--	72	784
Russia	--	--	--	--	--	(3)	(3)	70
Rwanda	21	--	--	--	--	--	21	113
Singapore	--	--	--	--	--	(3)	(3)	15
South Africa	--	--	--	--	--	--	--	21
Spain	20	--	--	--	--	(3)	20	118
Sweden	--	--	--	--	--	(3)	(3)	170
Thailand	15	--	--	--	--	--	15	132
Uganda	--	--	--	--	--	--	--	30
United Kingdom	--	--	--	(3)	--	(3)	(3)	9
Vietnam	--	--	--	--	--	--	--	10
Other	--	--	--	--	--	4	4	10
Total	432	347	16	64	109	199	1,170	10,800
Total, year to date	3,680	2,210	309	1,080	1,510	1,980	10,800	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 November 2008 totaled 125 metric tons, tungsten content, to give a year-to-date total of 1,160 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 7a
U.S. EXPORTS OF TUNGSTEN THROUGH SEPTEMBER 2008, BY COUNTRY¹

(Metric tons, tungsten content)

TABLE 7 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:							
July	(4)	20	57	102	86	265	2,330
August	46	39	114	136	78	413	2,750
September:							
Australia	--	--	(4)	(4)	1	2	29
Austria	--	--	1	8	--	9	143
Belgium	--	--	--	1	(4)	1	7
Brazil	--	--	2	1	6	9	56
Canada	--	--	6	8	17	31	324
Chile	--	--	(4)	(4)	--	(4)	6
China	82	--	2	(4)	(4)	85	167
Czech Republic	--	--	--	--	1	1	17
France	--	--	1	25	(4)	26	218
Germany	93	75	23	17	6	213	1,110
Hong Kong	--	--	--	(4)	--	(4)	5
Hungary	--	--	--	--	4	4	15
India	--	--	1	7	(4)	8	48
Ireland	--	--	--	(4)	(4)	1	35
Israel	--	--	(4)	--	--	(4)	35
Italy	--	--	1	(4)	(4)	1	23
Japan	--	(4)	(4)	1	4	6	83
Korea, Republic of	--	--	(4)	--	(4)	(4)	7
Mexico	--	--	24	1	4	28	342
Netherlands	--	--	--	--	1	1	21
Peru	--	--	--	(4)	--	(4)	5
Philippines	--	--	--	--	(4)	(4)	5
Singapore	--	--	3	(4)	(4)	4	49
South Africa	--	--	(4)	2	(4)	2	21
Spain	--	--	(4)	(4)	(4)	1	6
Switzerland	--	--	4	--	--	4	9
Taiwan	--	--	(4)	(4)	6	7	130
United Arab Emirates	--	--	1	--	--	1	4
United Kingdom	(4)	--	2	14	5	21	228
Venezuela	--	--	1	9	1	10	50
Other	--	--	4	(4)	1	6	26
Total	176	75	77	94	59	481	3,230
Total, year to date	226	424	772	1,110	696	3,230	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 September 2008 totaled 167 metric tons, tungsten content, to give a year-to-date total of 1,220 metric tons, tungsten content.

Source: U.S. Census Bureau.

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

(Metric tons, tungsten content)

TABLE 7 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:							
August	46	39	114	136	78	413	2,750
September	176	75	77	94	59	481	3,230
October:							
Australia	--	--	(4)	2	(4)	2	31
Austria	--	--	--	17	--	17	160
Belgium	--	--	--	13	--	13	20
Brazil	--	--	1	--	1	3	59
Canada	--	--	11	6	13	30	354
Chile	--	--	(4)	1	(4)	1	7
China	14	--	(4)	(4)	8	22	189
Colombia	--	--	--	--	(4)	(4)	4
Czech Republic	--	--	--	--	2	2	19
France	--	--	2	2	(4)	3	221
Germany	250	68	28	31	8	385	1,490
Hong Kong	--	--	--	--	--	--	5
Hungary	--	--	--	--	1	1	16
India	--	--	1	(4)	(4)	1	49
Ireland	--	--	--	1	2	3	38
Israel	--	--	(4)	--	(4)	1	35
Italy	--	--	(4)	(4)	(4)	1	23
Japan	--	--	(4)	2	7	9	93
Korea, Republic of	--	--	(4)	1	--	1	8
Mexico	--	--	28	(4)	2	30	372
Netherlands	--	--	--	--	(4)	(4)	22
Peru	--	--	2	--	--	2	6
Philippines	--	--	--	--	(4)	(4)	5
Singapore	(4)	--	2	(4)	(4)	2	51
South Africa	--	--	--	1	--	1	21
Spain	--	32	(4)	--	1	32	38
Sweden	--	--	--	(4)	1	1	4
Switzerland	--	--	1	--	--	1	10
Taiwan	--	--	1	--	5	6	136
Turkey	--	--	1	(4)	--	1	4
United Arab Emirates	--	--	(4)	--	(4)	(4)	4
United Kingdom	--	--	1	45	8	54	281
Venezuela	--	--	(4)	10	--	10	60
Other	--	--	(4)	(4)	1	1	24
Total	264	99	80	133	59	635	3,860
Total, year to date	490	524	852	1,240	755	3,860	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 October 2008 totaled 176 metric tons, tungsten content, to give a year-to-date total of 1,400 metric tons, tungsten content.

Source: U.S. Census Bureau.

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

(Metric tons, tungsten content)

TABLE 7 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:							
September	176	75	77	94	59	481	3,230
October	264	99	80	133	59	635	3,860
November:							
Australia	--	--	--	2	2	3	34
Austria	--	--	--	--	8	8	168
Belgium	--	--	--	--	--	--	20
Brazil	--	--	4	--	2	6	65
Canada	--	--	12	4	11	26	381
Chile	--	--	--	1	--	1	8
China	3	--	(4)	1	1	5	194
Colombia	--	--	--	--	--	--	4
Czech Republic	--	--	--	--	1	1	20
France	--	--	2	12	(4)	15	236
Germany	--	36	19	16	13	85	1,580
Hong Kong	--	--	(4)	--	--	(4)	5
Hungary	--	--	--	--	5	5	21
India	--	--	--	--	--	--	49
Indonesia	--	--	(4)	1	(4)	1	4
Ireland	--	--	--	5	17	22	60
Israel	--	--	--	--	(4)	(4)	35
Italy	--	3	1	--	(4)	5	28
Japan	--	--	(4)	(4)	6	6	99
Korea, Republic of	--	--	(4)	(4)	(4)	(4)	8
Malaysia	--	--	--	1	5	6	7
Mexico	1	2	27	1	1	32	404
Netherlands	--	--	--	--	(4)	(4)	22
Peru	--	--	(4)	--	--	(4)	6
Philippines	--	--	--	--	--	--	5
Singapore	--	--	2	1	(4)	3	54
South Africa	--	--	(4)	--	--	(4)	22
Spain	--	--	(4)	--	1	1	39
Sweden	--	--	--	(4)	(4)	(4)	4
Switzerland	--	--	(4)	1	(4)	1	11
Taiwan	--	--	1	(4)	(4)	2	138
Turkey	--	--	1	--	(4)	1	4
United Arab Emirates	--	--	--	--	(4)	(4)	4
United Kingdom	1	--	2	1	8	12	293
Venezuela	--	--	(4)	3	(4)	3	63
Other	--	--	1	1	(4)	2	18
Total	5	42	73	50	83	252	4,110
Total, year to date	495	565	924	1,290	837	4,110	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 November 2008 totaled 144 metric tons, tungsten content, to give a year-to-date total of 1,540 metric tons, tungsten content.

Source: U.S. Census Bureau.