

Mineral Industry Surveys

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TUNGSTEN IN APRIL, MAY, AND JUNE 2009

The following quarterly comparisons are based on preliminary data. During the quarter ending June 30, 2009, total 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 March 31, 2009, according to the U.S. Geological Survey. U.S. net production of intermediate tungsten products during the first half of 2009 was approximately one-half of that produced during the first half of 2008.

Total U.S. reported consumption of ferrotungsten, tungsten metal powder, tungsten carbide powder, tungsten scrap, and other tungsten materials during the quarter ending June 30, 2009, was slightly greater than consumption during the quarter ending March 31, 2009. U.S. reported consumption of these materials during the first half of 2009 was 33% less than that consumed during the first half of 2008. These 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 May 2009 and full year 2008 totals by material are published in this issue.

Update

Selected prices from Metal Bulletin for April, May, and June 2009, 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:

April:

Low—\$220/metric ton unit WO₃ (\$200/short ton unit WO₃)

High—\$231/metric ton unit WO₃ (\$210/short ton unit WO₃)

May:

Low—\$176/metric ton unit WO₃ (\$160/short ton unit WO₃)

High—\$231/metric ton unit WO₃ (\$210/short ton unit WO₃)

June:

Low—\$176/metric ton unit WO₃ (\$160/short ton unit WO₃)

High—\$187/metric ton unit WO₃ (\$170/short ton unit WO₃)

Concentrates:

April:

Low—\$140/metric ton unit WO₃ (\$127/short ton unit WO₃)

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

May:

Low—\$140/metric ton unit WO₃ (\$127/short ton unit WO₃)

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

June:

Low—\$140/metric ton unit WO₃ (\$127/short ton unit WO₃)

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

TABLE 1
U.S. SALIENT TUNGSTEN STATISTICS¹

(Metric tons, tungsten content)

Period	Concentrate				Intermediate products				
	Reported consumption	Imports for consumption	Stocks, end of period Industry ²	U.S. Government ³	Reported scrap consumption	Net production ⁴	Reported consumption ⁵	Stocks, end of period Industry ⁶	U.S. Government ³
2008:									
April	W	252	W	21,100	577 ^r	802	1,000 ^r	726 ^r	235
May	W	378	W	20,900	411 ^r	770 ^r	994 ^r	814 ^r	235
June	W	344	W	20,800	469 ^r	735 ^r	1,000 ^r	794 ^r	235
July	W	400	W	20,500	305 ^r	892 ^r	891 ^r	764 ^r	196
August	W	224	W	20,400	447 ^r	751 ^r	1,040 ^r	757 ^r	196
September	W	314	W	19,800	314 ^r	789 ^r	978 ^r	700 ^r	183
October	W	393	W	19,700	510 ^r	789 ^r	999 ^r	762 ^r	183
November	W	432	W	19,700	252 ^r	601 ^r	906 ^r	736 ^r	183
December	W	312	W	19,700	223 ^r	563 ^r	831 ^r	707 ^r	183
January-December	W	3,990	XX	XX	4,700 ^r	8,950 ^r	11,700 ^r	XX	XX
2009:									
January	W	459	W	19,700	313 ^r	334 ^r	697 ^r	779 ^r	183
February	W	341	W	19,800	231 ^r	389 ^r	633 ^r	696 ^r	183
March	W	408 ^r	W	19,800	264 ^r	436 ^r	706 ^r	725 ^r	183
April	W	319	W	19,800	276	330	614	694	183
May	W	315	W	19,700	257	379	703	713	183
June	W	272	W	19,700	184	441	742	690	183
Total	W	2,120	XX	XX	1,520	2,310	4,100	XX	XX

^rRevised. 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
2008:			
April	W	877	W
May	W	1,070	W
June	W	977	W
July	W	(3)	W
August	W	539 ^r	W
September	W	882 ^r	W
October	W	904 ^r	W
November	W	(3)	W
December	W	478 ^r	W
January-December	W	9,700 ^r	XX
2009:			
January	W	428 ^r	W
February	W	557 ^r	W
March	W	404 ^r	W
April	W	490	W
May	W	676	W
June	W	521	W
Total	W	3,080	XX

^rRevised. 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 3
U.S. PRODUCTION AND STOCKS OF TUNGSTEN PRODUCTS¹

(Metric tons, tungsten content)

Product ³	Net production ²						Stocks at end of period				
	2009						2009				
	2008 ^f	March ^f	April	May	June	Year to date	2008 ^f	March ^f	April	May	June
Metal powder	4,230	271	220	244	250	1,320	377	401	416	444	405
Tungsten carbide powder	4,720	166	109	135	191	993	330	324	278	269	284
Total	8,950	436	330	379	441	2,310	707	725	694	713	690

^fRevised.

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	2009			
	April	May	June	Year to date ⁴
Steels	24	23	23	141
Superalloys	W	W	W	W
Other alloys (excludes steels and superalloys) ⁵	W	W	W	W
Cemented carbides ⁶	438	437	437	2,640
Mill products made from metal powder	W	W	W	W
Chemical uses	W	W	W	W
Miscellaneous and unspecified	152	243	282	1,310
Total	614	703	742	4,100

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.

⁴May include revisions to prior months' data.

⁵Includes welding and hard-facing rods and materials, wear- and corrosion-resistant alloys, and nonferrous alloys.

⁶Includes 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:						
2008:						
April	20	W	568 ^r	W	6	1,000 ^r
May	19	W	562 ^r	W	6	994 ^r
June	20	W	559 ^r	W	6 ^r	1,000 ^r
July	20	W	555 ^r	W	6 ^r	891 ^r
August	20	W	562 ^r	W	6 ^r	1,040 ^r
September	20	W	560 ^r	W	6 ^r	978 ^r
October	20	W	563 ^r	W	6	999 ^r
November	20	W	564 ^r	W	6	906 ^r
December	20	W	557 ^r	W	6	831 ^r
January-December	237	W	6,750 ^r	W	72 ^r	11,700 ^r
2009:						
January	21 ^r	W	456 ^r	W	6	697 ^r
February	21 ^r	W	448 ^r	W	6	633 ^r
March	21 ^r	W	450 ^r	W	6	706 ^r
April	21	W	446	W	6	614
May	20	W	445	W	6	703
June	20	W	448	W	6	742
Total	124	W	2,690	W	36	4,100
Stocks:						
2008:						
April	16	25	420	26	9	495
May	17	25	418	22	9	491
June	17	25	422	25	9	498
July	18	25	429	28	9	508
August	17	25	426	27	9	504
September	17	25	421	45	9	517
October	16 ^r	25	423	50	9	522
November	15 ^r	25	421	35	9	504
December	15 ^r	25	448	28	9	524
2009:						
January	18 ^r	24	467	27	9	545 ^r
February	16 ^r	25	461	39	9	550
March	18 ^r	25	462 ^r	26	9	540 ^r
April	19	25	455	25	9	533
May	18	25	415	31	9	498
June	15	25	415	22	9	487

^rRevised. 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, 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
2008	3,990	2,510	309	1,180	1,600	2,180	11,800	XX
2009:								
January	459	426	--	87	74	134	1,180	XX
February	341	137	--	128	132	71	809	1,990
March:								
Austria	--	--	--	--	(3)	2	2	10
Belgium	--	--	--	--	(3)	--	(3)	2
Bolivia	58	--	--	--	--	--	58	347
Brazil	14	--	--	--	--	--	14	14
Canada	126	--	--	6	5	(3)	137	295
China	--	149	17	11	2	134	314	1,220
Czech Republic	--	--	--	--	--	1	1	3
France	--	--	--	--	(3)	2	2	3
Germany	--	--	--	22	10	1	33	116
Hong Kong	--	--	--	--	--	(3)	(3)	2
India	--	--	--	--	--	(3)	(3)	2
Israel	--	--	--	29	(3)	--	29	130
Japan	--	--	--	(3)	--	9	9	12
Kenya	--	--	--	--	--	--	--	20
Korea, Republic of	--	--	--	15	5	(3)	20	69
Mexico	5	--	--	--	--	--	5	7
Mongolia	12	--	--	--	--	--	12	23
Netherlands	--	--	--	--	--	(3)	(3)	4
Peru	45	--	--	--	--	--	45	121
Portugal	83	--	--	--	--	--	83	248
Rwanda	21	--	--	--	--	--	21	45
Singapore	--	--	--	--	--	--	--	2
Spain	20	--	--	--	--	--	20	59
Sweden	--	--	--	--	13	(3)	13	13
Thailand	15	--	--	--	--	--	15	29
Uganda	--	--	--	--	--	--	--	12
United Kingdom	11	--	--	(3)	--	(3)	11	11
Vietnam	--	--	--	--	--	--	--	14
Other	--	--	--	--	--	2	2	3
Total	408	149	17	84	35	151	846	2,840
Total, year to date	1,210	713	17	299	242	356	2,840	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 March 2009 totaled 79 metric tons, tungsten content, to give a year-to-date total of 204 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 6B
U.S. IMPORTS FOR CONSUMPTION OF TUNGSTEN, 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
2008	3,990	2,510	309	1,180	1,600	2,180	11,800	XX
2009:								
February	341	137	--	128	132	71	809	1,990
March	408	149	17	84	35	151	846	2,840
April:								
Austria	--	--	--	--	--	1	1	11
Belgium	--	--	--	--	--	1	1	3
Bolivia	29	--	--	--	--	--	29	376
Brazil	--	--	--	--	--	--	--	14
Canada	140	--	--	1	4	--	145	440
China	--	208	--	10	8	205	431	1,650
Czech Republic	--	--	--	--	--	1	1	3
France	--	--	--	--	(3)	(3)	(3)	4
Germany	--	1	--	12	2	1	16	131
Hong Kong	--	--	--	--	--	1	1	3
India	--	--	--	--	(3)	(3)	1	3
Israel	--	--	--	14	--	(3)	14	143
Japan	--	--	--	--	--	(3)	(3)	13
Kenya	--	--	--	--	--	--	--	20
Korea, Republic of	--	--	--	11	1	(3)	12	81
Mexico	--	--	--	--	--	--	--	7
Mongolia	--	--	--	--	--	--	--	23
Netherlands	--	--	--	--	--	(3)	(3)	4
Peru	27	--	--	--	--	--	27	148
Portugal	72	--	--	--	--	--	72	320
Rwanda	11	--	--	--	--	--	11	55
Singapore	--	--	--	--	--	3	3	5
Spain	39	--	--	--	--	--	39	98
Sweden	--	--	--	--	--	(3)	(3)	13
Thailand	--	--	--	--	--	--	--	29
Uganda	--	--	--	--	--	--	--	12
United Kingdom	--	--	--	--	--	(3)	(3)	11
Vietnam	--	--	15	--	--	--	15	29
Other	--	--	--	(3)	--	(3)	(3)	3
Total	319	209	15	47	16	213	819	3,660
Total, year to date	1,530	921	32	346	259	569	3,660	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 April 2009 totaled 74 metric tons, tungsten content, to give a year-to-date total of 279 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 6C
U.S. IMPORTS FOR CONSUMPTION OF TUNGSTEN, 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
2008	3,990	2,510	309	1,180	1,600	2,180	11,800	XX
2009:								
March	408	149	17	84	35	151	846	2,840
April	319	209	15	47	16	213	819	3,660
May:								
Austria	--	--	--	--	--	1	1	11
Belgium	--	--	--	--	--	--	--	3
Bolivia	87	--	--	--	--	--	87	463
Brazil	--	--	--	--	--	--	--	14
Canada	57	--	--	--	3	--	59	500
China	--	114	--	14	24	101	253	1,910
Czech Republic	--	--	--	--	--	(3)	(3)	4
France	--	--	--	--	(3)	1	2	5
Germany	--	10	--	37	1	4	51	182
Hong Kong	--	--	--	--	--	(3)	(3)	3
India	--	--	--	--	--	(3)	(3)	3
Ireland	--	--	--	--	--	4	4	4
Israel	--	--	--	18	--	--	18	161
Japan	--	--	--	--	--	1	1	14
Kenya	--	--	--	--	--	--	--	20
Korea, Republic of	--	--	--	7	--	--	7	88
Mexico	--	--	--	--	--	(3)	(3)	7
Mongolia	--	--	--	--	--	--	--	23
Netherlands	--	--	--	--	--	(3)	(3)	4
Peru	25	--	--	--	--	--	25	173
Portugal	72	--	--	--	--	--	72	392
Rwanda	36	--	--	--	--	--	36	91
Singapore	--	--	--	--	--	--	--	5
Spain	39	--	--	--	--	--	39	137
Sweden	--	--	--	--	--	(3)	(3)	13
Thailand	--	--	--	--	--	--	--	29
Uganda	--	--	--	--	--	--	--	12
United Kingdom	--	--	--	(3)	1	(3)	1	12
Vietnam	--	--	--	--	--	--	--	29
Other	--	--	--	--	--	2	2	5
Total	315	123	--	75	29	114	657	4,310
Total, year to date	1,840	1,050	32	421	288	683	4,310	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 May 2009 totaled 93 metric tons, tungsten content, to give a year-to-date total of 371 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 7A
U.S. EXPORTS OF TUNGSTEN, 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
2008	496	621	981	1,340	888	4,320	XX
2009:							
January	(4)	37	32	58	30	158	158
February	--	--	36	32	48	117	274
March:							
Australia	--	--	(4)	1	(4)	1	5
Austria	--	--	--	--	--	--	21
Brazil	--	--	3	--	1	3	15
Canada	--	--	5	5	6	16	48
China	--	--	1	1	2	5	7
Czech Republic	--	--	--	--	1	1	17
France	--	--	2	(4)	1	4	11
Germany	(4)	45	7	7	2	61	129
Hong Kong	--	--	--	--	6	6	6
Hungary	--	--	--	--	(4)	(4)	3
India	--	--	1	(4)	1	2	4
Indonesia	--	--	--	(4)	(4)	(4)	3
Ireland	--	--	--	2	--	2	8
Israel	--	--	(4)	--	(4)	1	1
Italy	--	--	1	--	1	1	5
Japan	--	--	(4)	--	1	2	13
Korea, Republic of	(4)	--	(4)	(4)	(4)	1	1
Malaysia	--	--	--	1	--	1	6
Mexico	--	--	(4)	(4)	4	5	18
Netherlands	--	--	--	--	(4)	(4)	16
Peru	--	--	(4)	--	(4)	(4)	1
Philippines	--	--	--	--	8	8	9
Poland	--	--	--	3	--	3	3
Singapore	--	--	1	1	(4)	2	12
South Africa	--	--	(4)	6	--	7	15
Spain	--	--	--	--	--	--	1
Sweden	--	--	--	(4)	1	1	2
Taiwan	--	--	2	(4)	(4)	2	3
United Kingdom	--	--	1	2	5	8	29
Venezuela	--	--	--	(4)	(4)	(4)	1
Other	--	--	1	(4)	(4)	1	6
Total	(4)	45	26	30	41	143	417
Total, year to date	1	82	94	120	120	417	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 March 2009 totaled 78 metric tons, tungsten content, to give a year-to-date total of 244 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 7B
U.S. EXPORTS OF TUNGSTEN, 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
2008	496	621	981	1,340	888	4,320	XX
2009:							
February	--	--	36	32	48	117	274
March	(4)	45	26	30	41	143	417
April:							
Australia	--	--	--	(4)	1	1	6
Austria	--	--	--	--	--	--	21
Brazil	--	--	(4)	(4)	--	(4)	15
Canada	--	--	4	3	14	21	69
China	(4)	--	1	(4)	11	12	19
Czech Republic	--	--	--	--	(4)	(4)	18
France	--	--	1	2	(4)	3	14
Germany	--	--	6	6	2	14	143
Hong Kong	--	--	--	(4)	--	(4)	6
Hungary	--	--	--	--	(4)	(4)	3
India	--	--	(4)	--	(4)	(4)	4
Indonesia	--	--	--	--	(4)	(4)	3
Ireland	--	--	--	--	1	1	9
Israel	--	--	(4)	--	(4)	(4)	1
Italy	--	--	1	(4)	(4)	1	6
Japan	--	--	(4)	1	1	3	16
Korea, Republic of	--	--	(4)	--	--	(4)	2
Malaysia	--	--	(4)	(4)	--	(4)	6
Mexico	--	--	(4)	(4)	2	2	20
Netherlands	--	--	5	--	1	6	21
Peru	--	--	--	--	--	--	1
Philippines	--	--	--	--	--	--	9
Poland	--	--	--	6	--	6	8
Singapore	--	--	1	2	1	3	15
South Africa	--	--	--	--	--	--	15
Spain	--	--	--	--	--	--	1
Sweden	--	--	--	(4)	(4)	(4)	3
Taiwan	--	--	1	1	(4)	3	6
United Kingdom	--	--	2	5	2	9	38
Venezuela	--	--	--	2	--	2	3
Other	--	--	(4)	(4)	1	1	7
Total	(4)	--	23	29	38	90	507
Total, year to date	1	82	117	150	157	507	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 April 2009 totaled 112 metric tons, tungsten content. a year-to-date total of 356 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 7C
U.S. EXPORTS OF TUNGSTEN, 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
2008	496	621	981	1,340	888	4,320	XX
2009:							
March	(4)	45	26	30	41	143	417
April	(4)	--	23	29	38	90	507
May:							
Australia	--	--	1	3	1	5	11
Austria	--	18	(4)	--	(4)	18	39
Brazil	--	--	2	--	(4)	2	17
Canada	--	--	3	4	10	17	85
China	--	--	2	(4)	8	10	30
Czech Republic	--	--	--	--	2	2	20
France	--	--	--	--	12	12	26
Germany	--	9	9	8	1	27	170
Hong Kong	--	--	(4)	--	--	(4)	6
Hungary	--	--	--	--	3	3	6
India	--	--	1	--	(4)	1	5
Indonesia	--	--	(4)	--	(4)	(4)	3
Ireland	--	--	--	5	(4)	5	14
Israel	(4)	--	(4)	(4)	--	1	2
Italy	--	--	1	--	(4)	1	7
Japan	--	--	1	1	3	4	20
Korea, Republic of	--	--	1	(4)	--	1	3
Malaysia	--	--	--	(4)	--	(4)	6
Mexico	--	--	(4)	(4)	2	2	22
Netherlands	--	--	(4)	--	(4)	(4)	22
Peru	--	--	(4)	--	--	(4)	1
Philippines	--	--	--	--	--	--	9
Poland	--	--	--	3	--	3	11
Singapore	--	--	1	(4)	(4)	1	16
South Africa	--	--	--	5	(4)	5	20
Spain	--	--	--	--	1	1	1
Sweden	--	--	--	(4)	2	2	4
Taiwan	--	--	1	8	--	10	16
United Kingdom	--	--	1	9	5	15	52
Venezuela	--	--	--	--	--	--	3
Other	--	--	2	1	(4)	3	10
Total	(4)	27	26	47	51	152	659
Total, year to date	1	110	143	197	208	659	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 May 2009 totaled 57 metric tons, tungsten content, to give a year-to-date total of 413 metric tons, tungsten content.

Source: U.S. Census Bureau.