

Mineral Industry Surveys

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TUNGSTEN IN APRIL, MAY, AND JUNE 2010

The following quarterly comparisons are based on preliminary data. During the quarter ending June 30, 2010, total U.S. net production of intermediate tungsten products, including metal powder and tungsten carbide powder, was 15% more than net production during the quarter ending March 31, 2010, according to the U.S. Geological Survey. U.S. net production of intermediate tungsten products during the first half of 2010 was 73% more than that produced during the first half of 2009.

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, 2010, was 4% greater than consumption during the quarter ending March 31, 2010. U.S. reported consumption of these materials during the first half of 2010 was 29% more than that consumed during the first half of 2009. 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 2010 and full year 2009 totals by material are published in this issue.

Prices

Selected prices from Metal Bulletin for April, May, and June 2010, 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—\$182/metric ton unit WO₃ (\$165/short ton unit WO₃)

High—\$204/metric ton unit WO₃ (\$185/short ton unit WO₃)

May:

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

High—\$204/metric ton unit WO₃ (\$185/short ton unit WO₃)

June:

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

High—\$204/metric ton unit WO₃ (\$185/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				Reported scrap consumption	Intermediate products			
	Reported consump- tion	Imports for consumption	Stocks, end of period			Net production ⁴	Reported consump- tion ⁵	Stocks, end of period	
			Industry ²	U.S. Gov- ernment ³			Industry ⁶	U.S. Gov- ernment ³	
2009:									
April	W	319	W	19,800	273	330	562	694	183
May	W	315	W	19,700	251	379	649	713	183
June	W	272	W	19,700	200 ^r	450 ^r	689	690	183
July	W	289	W	19,700	286 ^r	300 ^r	584	635 ^r	183
August	W	270	W	19,700	219 ^r	411 ^r	667	656 ^r	183
September	W	165	W	19,700	315 ^r	440 ^r	702	708 ^r	172
October	W	289	W	19,500	392 ^r	665 ^r	794	750 ^r	172
November	W	150	W	19,300	371 ^r	575	758	727 ^r	172
December	W	306	W	19,000	356 ^r	589	776	682 ^r	171
January-December	W	3,590	XX	XX	3,460 ^r	5,300 ^r	8,060	XX	XX
2010:									
January	W	173	W	18,800	418 ^r	584 ^r	826 ^r	674 ^r	171
February	W	249	W	18,600	303 ^r	588 ^r	756 ^r	749 ^r	171
March	W	181	W	18,300	455 ^r	689 ^r	808 ^r	739 ^r	171
April	W	279	W	17,700	369	638	835	676	169
May	W	160	W	17,700	426	743	817	745	169
June	W	246	W	17,700	426	759	837	702	169
Total	W	1,290	XX	XX	2,400	4,000	4,880	XX	XX

¹Revised. 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
2009:			
April	W	490	W
May	W	676	W
June	W	521	W
July	W	311	W
August	W	535	W
September	W	(3)	W
October	W	(3)	W
November	W	667	97
December	W	(3)	100
January-December	W	6,860	XX
2010:			
January	W	793	W
February	W	726	W
March	W	854	W
April	W	894	W
May	W	742	W
June	W	810	W
Total	W	4,820	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 3
U.S. PRODUCTION AND STOCKS OF TUNGSTEN PRODUCTS¹

(Metric tons, tungsten content)

Product ³	Net production ²						Stocks at end of period				
	2010						2010				
	2009 ^r	March	April	May	June	Year to date ⁴	2009 ^r	March ^r	April	May	June
Metal powder	2,880	335	313	333	373	2,010	379	467	432	438	388
Tungsten carbide powder	2,420	354 ^r	325	410	386	1,990	304	273	244	307	314
Total	5,300	689 ^r	638	743	759	4,000	682	739	676	745	702

^rRevised.

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."

⁴May include revisions to prior months.

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

(Metric tons, tungsten content)

End use	2010			
	April	May	June	Year to date ⁴
Steels	20	21	20	124
Superalloys	W	W	W	W
Other alloys (excludes steels and superalloys) ⁵	W	W	W	W
Cemented carbides ⁶	419	416	419	2,500
Mill products made from metal powder	W	W	W	W
Chemical uses	W	W	W	W
Miscellaneous and unspecified	396	380	398	2,250
Total	835	817	837	4,880

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.

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:						
2009:						
April	20	W	404	W	6	562
May	20	W	403	W	6	649
June	20	W	404	W	6	689
July	20	W	404	W	6	584
August	20	W	404	W	6	667
September	20	W	404	W	6	702
October	20	W	404	W	6	794
November	20	W	404	W	6	758
December	20	W	404	W	6	776
January-December	238	W	4,860	W	74	8,060
2010:						
January	20	W	408 ^r	W	6	826 ^r
February	20	W	407 ^r	W	6	756 ^r
March	20	W	408 ^r	W	6	808 ^r
April	20	W	410	W	6	835
May	21	W	408	W	8	817
June	20	W	411	W	9	837
Total	121	W	2,450	W	41	4,880
Stocks:						
2009:						
April	15	26	387	51	10	488
May	14	25	348	57	10	454
June	15	25	387	49	10	486
July	15	25	387	55	10	492
August	15	25	387	55	10	492
September	15	25	387	50	10	486
October	15	25	387	48	10	484
November	15	25	387	57	10	493
December	15	24	387	47	10	484
2010:						
January	15	24	387	46	9	481 ^r
February	15	24	387	50	9	484
March	15	23	387	49 ^r	9	484
April	15	25	387	57	9	493
May	15	24	387	53	20	499
June	15	28	387	49	17	497

^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	Ferro-tungsten	Metal powder	Tungsten carbide powder	Other ²	Total	Total, year to date
2009	3,590	2,540	46	837	753	1,360	9,120	XX
2010:								
January	173	325	33	106	173	175	984	984
February	249	161	12	91	84	219	815	1,800
March:								
Austria	--	--	--	(3)	(3)	6	6	13
Belgium	--	--	--	--	4	1	5	25
Bolivia	25	--	--	--	--	--	25	142
Canada	--	--	--	5	8	--	12	38
China	--	85	5	17	45	286	440	1,500
Czech Republic	--	--	--	--	1	1	2	4
France	--	--	--	--	1	(3)	1	2
Germany	(3)	--	--	28	11	1	40	100
Hong Kong	--	3	--	--	--	1	4	20
Hungary	--	--	--	--	--	2	2	2
India	--	--	--	--	--	(3)	(3)	1
Israel	--	--	--	38	11	--	50	140
Japan	--	--	--	5	--	2	7	19
Korea, Republic of	--	--	--	32	4	(3)	36	79
Mexico	3	--	--	--	--	--	3	7
Netherlands	--	--	15	--	--	(3)	15	15
Peru	36	--	--	--	--	--	36	126
Portugal	62	--	--	--	--	--	62	156
Russia	--	--	--	--	--	1	1	1
Rwanda	--	--	--	--	--	--	--	30
Singapore	--	--	--	--	--	1	1	3
South Africa	--	--	--	--	--	--	--	16
Spain	10	--	--	--	--	(3)	10	59
Sweden	--	--	--	(3)	9	(3)	9	19
Thailand	13	--	--	--	--	1	13	28
Uganda	31	--	--	--	--	--	31	31
United Kingdom	--	--	--	--	(3)	1	1	25
Vietnam	--	--	--	--	--	--	--	4
Other	--	--	--	--	--	(3)	(3)	(3)
Total	181	88	20	126	94	303	812	2,610
Total, year to date	602	574	65	322	351	697	2,610	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 2010 totaled 124 metric tons, tungsten content, to give a year-to-date total of 189 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	Ferro- tungsten	Metal powder	Tungsten carbide powder	Other ²	Total	Total, year to date
2009	3,590	2,540	46	837	753	1,360	9,120	XX
2010:								
February	249	161	12	91	84	219	815	1,800
March	181	88	20	126	94	303	812	2,610
April:								
Austria	--	--	--	--	1	5	6	19
Belgium	--	--	--	--	3	(3)	3	29
Bolivia	163	--	--	--	--	--	163	305
Canada	--	--	--	5	9	--	14	52
China	--	200	7	14	50	202	474	1,980
Czech Republic	--	--	--	--	--	1	1	5
France	--	--	--	--	(3)	(3)	1	3
Germany	(3)	5	--	26	7	2	40	141
Hong Kong	--	--	--	--	--	(3)	(3)	20
Hungary	--	--	--	--	--	1	1	3
India	--	--	--	--	(3)	(3)	(3)	1
Israel	--	--	--	30	4	--	34	174
Japan	--	--	--	2	--	2	4	23
Korea, Republic of	--	--	--	24	--	--	24	103
Mexico	--	--	--	--	--	--	--	7
Netherlands	--	--	--	--	--	(3)	(3)	15
Peru	52	--	--	--	--	--	52	177
Portugal	52	--	--	--	--	--	52	208
Russia	--	--	--	--	--	--	--	1
Rwanda	--	--	--	--	--	--	--	30
Singapore	--	--	--	(3)	--	1	1	5
South Africa	--	--	--	--	--	--	--	16
Spain	--	--	--	--	--	--	--	59
Sweden	--	--	--	--	--	(3)	(3)	19
Thailand	13	--	--	--	--	--	13	41
Uganda	--	--	--	--	--	--	--	31
United Kingdom	--	--	--	--	(3)	(3)	(3)	25
Vietnam	--	--	--	--	--	1	1	4
Other	--	--	--	--	--	(3)	(3)	1
Total	279	205	7	101	75	217	884	3,490
Total, year to date	882	778	72	423	427	913	3,490	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 2010 totaled 102 metric tons, tungsten content, to give a year-to-date total of 291 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
2009	3,590	2,540	46	837	753	1,360	9,120	XX
2010:								
March	181	88	20	126	94	303	812	2,610
April	279	205	7	101	75	217	884	3,490
May:								
Australia	--	--	4	--	--	(3)	4	4
Austria	--	--	--	1	--	5	6	25
Belgium	--	--	--	--	(3)	(3)	(3)	29
Bolivia	51	--	--	--	--	--	51	356
Canada	--	--	--	--	8	1	9	61
China	--	104	8	2	86	69	268	2,240
Czech Republic	--	--	--	--	--	1	1	5
France	--	--	--	--	(3)	(3)	1	4
Germany	(3)	4	--	18	23	1	46	187
Hong Kong	--	--	--	--	--	(3)	(3)	21
Hungary	--	--	--	--	--	1	1	4
India	--	--	--	--	--	(3)	(3)	2
Israel	--	--	--	16	11	--	27	200
Japan	--	--	--	2	(3)	2	4	27
Korea, Republic of	--	--	--	32	1	(3)	33	136
Mexico	--	--	--	--	--	--	--	7
Netherlands	--	--	--	--	--	(3)	(3)	15
Peru	36	--	--	--	--	--	36	214
Portugal	52	--	--	--	--	--	52	260
Russia	--	--	--	--	--	(3)	(3)	2
Rwanda	--	--	--	--	--	--	--	30
Singapore	--	--	--	--	--	1	1	6
South Africa	--	--	--	--	--	--	--	16
Spain	10	--	--	--	--	(3)	10	69
Sweden	--	--	--	--	12	1	13	33
Taiwan	--	--	--	--	--	16	16	16
Thailand	--	--	--	--	--	(3)	(3)	41
Uganda	11	--	--	--	--	--	11	42
United Kingdom	--	--	--	(3)	--	1	1	26
Vietnam	--	--	--	--	--	--	--	4
Other	--	--	--	--	--	(3)	(3)	(3)
Total	160	108	12	70	142	99	590	4,090
Total, year to date	1,040	886	83	493	568	1,010	4,090	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 2010 totaled 233 metric tons, tungsten content, to give a year-to-date total of 524 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
2009	38	375	360	469	543	1,790	XX
2010:							
January	5	73	47	27	56	208	208
February	49	21	37	37	39	183	391
March:							
Australia	--	--	(4)	2	1	3	9
Austria	--	--	--	17	--	17	24
Belgium	--	--	--	(4)	(4)	(4)	3
Brazil	--	--	1	1	2	3	11
Canada	--	--	5	14	22	41	99
China	--	--	1	1	(4)	2	10
Columbia	--	--	--	--	3	3	3
Czech Republic	--	--	--	--	2	2	7
France	--	--	(4)	11	(4)	11	12
Germany	--	38	38	11	4	90	291
Hong Kong	--	--	--	7	--	7	8
Hungary	--	3	--	--	(4)	3	4
India	--	--	1	1	1	2	4
Indonesia	--	--	--	1	(4)	1	3
Ireland	--	--	--	--	(4)	(4)	7
Japan	--	--	(4)	--	1	2	7
Korea, Republic of	--	--	(4)	(4)	--	1	3
Mexico	--	2	(4)	(4)	3	6	13
Netherlands	--	--	--	--	1	1	10
Saudi Arabia	--	--	--	5	(4)	5	6
Singapore	--	--	(4)	(4)	1	2	11
South Africa	--	--	(4)	(4)	--	1	3
Sweden	--	--	--	--	2	2	3
Switzerland	--	--	1	--	(4)	1	5
Taiwan	--	--	2	(4)	(4)	2	16
United Kingdom	--	--	--	4	2	6	11
Venezuela	--	--	1	--	--	1	6
Vietnam	--	--	--	--	(4)	(4)	5
Other	(4)	--	1	1	3	5	14
Total	(4)	43	53	77	48	220	611
Total, year to date	55	136	137	141	142	611	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 2010 totaled 103 metric tons, tungsten content, to give a year-to-date total of 155 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
2009	38	375	360	469	543	1,790	XX
2010:							
February	49	21	37	37	39	183	391
March	(4)	43	53	77	48	220	611
April:							
Australia	--	--	(4)	(4)	1	2	11
Austria	--	--	--	13	--	13	37
Belgium	--	--	--	(4)	36	36	39
Brazil	--	--	2	3	1	6	17
Canada	--	--	7	12	20	39	138
China	--	--	2	4	1	7	17
Columbia	--	--	--	--	1	1	4
Czech Republic	--	--	--	--	2	2	9
France	--	--	--	4	(4)	4	16
Germany	52	38	81	5	11	187	478
Hong Kong	--	--	--	(4)	(4)	(4)	8
Hungary	--	--	--	--	(4)	(4)	4
India	--	20	1	1	(4)	21	26
Indonesia	--	--	(4)	(4)	1	1	4
Ireland	--	--	--	3	--	3	10
Japan	--	--	2	1	3	6	13
Korea, Republic of	--	--	(4)	--	--	(4)	3
Mexico	--	--	2	1	2	5	18
Netherlands	--	--	7	--	(4)	7	17
Saudi Arabia	--	--	--	--	(4)	(4)	6
Singapore	--	--	1	(4)	1	2	13
South Africa	--	--	(4)	21	--	21	24
Spain	--	--	--	--	1	1	3
Sweden	--	--	(4)	15	1	16	19
Switzerland	--	--	--	1	(4)	1	6
Taiwan	--	--	1	3	(4)	4	20
United Kingdom	--	--	(4)	18	1	19	30
Venezuela	--	--	1	2	--	3	10
Vietnam	--	--	--	--	(4)	(4)	5
Other	(4)	--	2	1	1	4	16
Total	52	57	110	108	83	411	1,020
Total, year to date	107	193	247	249	226	1,020	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 2010 totaled 74 metric tons, tungsten content, to give a year-to-date total of 229 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
2009	38	375	360	469	543	1,790	XX
2010:							
March	(4)	43	53	77	48	220	611
April	52	57	110	108	83	411	1,020
May:							
Australia	--	--	(4)	1	1	2	13
Austria	--	--	--	2	--	2	39
Belgium	--	--	(4)	(4)	(4)	1	40
Brazil	--	--	1	--	1	3	20
Canada	--	--	6	7	18	31	169
China	--	--	1	(4)	(4)	1	18
Columbia	--	--	--	--	(4)	(4)	4
Czech Republic	--	--	--	--	2	2	11
France	--	--	--	(4)	(4)	(4)	16
Germany	141	--	43	23	85	293	771
Hong Kong	--	--	--	2	--	2	10
Hungary	--	--	--	--	3	3	8
India	--	--	1	2	--	3	29
Indonesia	--	--	--	(4)	3	4	7
Ireland	--	--	1	--	--	1	11
Israel	--	--	(4)	--	2	2	4
Italy	--	1	--	--	(4)	1	3
Japan	--	--	2	1	4	7	20
Korea, Republic of	--	--	(4)	1	(4)	1	5
Mexico	(4)	--	(4)	1	2	3	21
Netherlands	--	--	10	--	(4)	11	27
New Zealand	--	--	--	--	3	3	3
Peru	(4)	--	--	--	--	(4)	3
Saudi Arabia	--	--	--	(4)	--	(4)	6
Singapore	--	--	1	(4)	(4)	2	15
South Africa	--	--	--	2	--	2	26
Spain	--	--	--	--	1	1	4
Sweden	--	--	--	--	1	1	20
Switzerland	--	--	--	--	1	1	7
Taiwan	--	--	1	5	--	6	26
United Kingdom	2	--	--	15	1	18	48
Venezuela	--	--	1	6	--	7	17
Vietnam	--	--	--	--	(4)	(4)	5
Other	2	--	(4)	2	1	5	14
Total	146	1	70	70	130	417	1,440
Total, year to date	253	195	317	319	356	1,440	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 2010 totaled 31 metric tons, tungsten content, to give a year-to-date total of 260 metric tons, tungsten content.

Source: U.S. Census Bureau.