

Mineral Industry Surveys

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TUNGSTEN IN OCTOBER, NOVEMBER, AND DECEMBER 2009

On the basis of preliminary data, U.S. net production of intermediate tungsten products, including metal powder and tungsten carbide powder, in 2009 was 41% lower than that produced in 2008, according to the U.S. Geological Survey. U.S. net production of intermediate tungsten products during the quarter ending December 31, 2009, was 62% higher than net production during the quarter ending September 30, 2009.

Total U.S. reported consumption of ferrotungsten, tungsten metal powder, tungsten carbide powder, tungsten scrap, and other tungsten materials in 2009 was 31% lower than reported consumption in 2008. U.S. reported consumption of these materials during the quarter ending December 31, 2009, was 19% higher than that consumed during the quarter ending September 30, 2009. 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 2009 and full year 2008 totals by material are published in this issue.

Prices

Selected prices from Metal Bulletin for October, November, and December 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:

October:

Low—\$176/metric ton unit WO₃ (\$160/short ton unit WO₃)
High—\$187/metric ton unit WO₃ (\$170/short ton unit WO₃)

November:

Low—\$176/metric ton unit WO₃ (\$160/short ton unit WO₃)
High—\$187/metric ton unit WO₃ (\$170/short ton unit WO₃)

December:

Low—\$187/metric ton unit WO₃ (\$170/short ton unit WO₃)
High—\$209/metric ton unit WO₃ (\$190/short ton unit WO₃)

Concentrates:

October:

Low—\$140/metric ton unit WO₃ (\$127/short ton unit WO₃)
High—\$160/metric ton unit WO₃ (\$145/short ton unit WO₃)

November:

Low—\$140/metric ton unit WO₃ (\$127/short ton unit WO₃)
High—\$160/metric ton unit WO₃ (\$145/short ton unit WO₃)

December:

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 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
2008:									
October	W	393	W	19,700	510	789	999	762	183
November	W	432	W	19,700	252	601	906	736	183
December	W	312	W	19,700	223	563	831	707	183
January-December	W	3,990	XX	XX	4,700	8,950	11,700	XX	XX
2009:									
January	W	459	W	19,700	313 ^r	334	648 ^r	779	183
February	W	341	W	19,800	227 ^r	389	581 ^r	696	183
March	W	408	W	19,800	259 ^r	436	653 ^r	725	183
April	W	319	W	19,800	273 ^r	330	562 ^r	694	183
May	W	315	W	19,700	251 ^r	379	650 ^r	713	183
June	W	272	W	19,700	179 ^r	441	689 ^r	690	183
July	W	289	W	19,700	276 ^r	286	584 ^r	623	183
August	W	270	W	19,700	213 ^r	400	668 ^r	633	183
September	W	165	W	19,700	308 ^r	446 ^r	703 ^r	693 ^r	172
October	W	289	W	19,500	395	669	795	740	172
November	W	150	W	19,300	363	575	759	722	172
December	W	306	W	19,000	351	589	777	678	171
Total	W	3,590	XX	XX	3,410	5,270	8,070	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:			
October	W	904	W
November	W	(3)	W
December	W	478	W
January-December	W	9,700	XX
2009:			
January	W	428	W
February	W	557	W
March	W	404	W
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
Total	W	6,860	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				
	2009						2009				
	2008	September ^r	October	November	December	Year to date	2008	September ^r	October	November	December
Metal powder	4,230	242	347	286	310	2,860	377	413	433	410	377
Tungsten carbide powder	4,720	204	322	289	279	2,410	330	280	307	313	301
Total	8,950	446	669	575	589	5,270	707	693	740	722	678

^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."

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

(Metric tons, tungsten content)

End use	2009			
	October	November	December	Year to date
Steels	21	21	21	253
Superalloys	W	W	W	W
Other alloys (excludes steels and superalloys) ⁴	W	W	W	W
Cemented carbides ⁵	412	412	412	4,960
Mill products made from metal powder	W	W	W	W
Chemical uses	W	W	W	W
Miscellaneous and unspecified	362	326	344	2,860
Total	795	759	777	8,070

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:						
2008:						
October	20	W	563	W	6	999
November	20	W	564	W	6	906
December	20	W	557	W	6	831
January-December	237	W	6,750	W	72	11,700
2009:						
January	21	W	414 ^r	W	6	648 ^r
February	21	W	406 ^r	W	6	581 ^r
March	21	W	407 ^r	W	6	653 ^r
April	21	W	404 ^r	W	6	562 ^r
May	20	W	403 ^r	W	6	650 ^r
June	20	W	404 ^r	W	6	689 ^r
July	21	W	404 ^r	W	6	584 ^r
August	20	W	404 ^r	W	6	668 ^r
September	21	W	404 ^r	W	6 ^r	703 ^r
October	21	W	404	W	6	795
November	21	W	404	W	6	759
December	21	W	404	W	6	777
Total	248	W	4,860	W	72	8,070
Stocks:						
2008:						
October	16	25	423	50	9	522
November	15	25	421	35	9	504
December	15	25	448	28	9	524
2009:						
January	18	24	400 ^r	49 ^r	9	499 ^r
February	16	26 ^r	393 ^r	49 ^r	9	493 ^r
March	18	26 ^r	395 ^r	52 ^r	9	499 ^r
April	19	26 ^r	387 ^r	51 ^r	9	492 ^r
May	18	25	348 ^r	57 ^r	9	457 ^r
June	15	25	387 ^r	49 ^r	9	486 ^r
July	16	25	387 ^r	55 ^r	9	493 ^r
August	15	25	387 ^r	55 ^r	9	492 ^r
September	18	25	387 ^r	50 ^r	9 ^r	488 ^r
October	16	25	387	48	9	485
November	18	25	387	57	9	495
December	16	24	387	47	9	484

^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
2008	3,990	2,510	309	1,180	1,600	2,180	11,800	XX
2009:								
July	289	246	--	50	78	114	777	5,690
August	270	285	2	71	42	62	732	6,420
September:								
Austria	--	--	--	--	(3)	3	4	22
Belgium	--	--	--	--	(3)	1	1	6
Bolivia	--	--	--	--	--	--	--	535
Brazil	--	--	--	--	--	--	--	14
Canada	61	--	--	5	1	(3)	67	857
China	--	66	--	22	32	146	266	3,220
Czech Republic	--	--	--	(3)	10	1	10	18
France	--	--	--	--	1	(3)	1	8
Germany	--	3	--	12	3	2	21	287
Guatemala	8	--	--	--	--	--	8	8
Ireland	--	--	--	--	--	--	--	5
Israel	--	--	--	2	4	--	6	219
Japan	--	--	--	7	--	4	11	33
Kenya	--	--	--	--	--	--	--	20
Korea, Republic of	--	--	--	17	4	(3)	21	149
Mexico	7	--	--	--	--	--	7	19
Mongolia	--	--	--	--	--	--	--	23
Netherlands	--	--	--	--	--	(3)	(3)	4
Peru	36	--	--	--	--	--	36	337
Portugal	21	--	--	--	--	--	21	600
Rwanda	--	--	--	--	--	--	--	204
Singapore	--	--	--	--	--	1	1	8
Spain	10	--	--	--	--	(3)	10	187
Sweden	--	--	--	--	--	(3)	(3)	17
Thailand	15	--	--	--	--	--	15	44
Uganda	--	--	--	--	--	--	--	12
United Kingdom	7	--	--	--	--	(3)	7	19
Vietnam	--	--	--	--	--	5	5	50
Other	--	--	--	(3)	(3)	1	1	14
Total	165	68	--	64	56	164	518	6,940
Total, year to date	2,840	1,800	34	649	494	1,120	6,940	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 2009 totaled 43 metric tons, tungsten content, to give a year-to-date total of 603 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
2008	3,990	2,510	309	1,180	1,600	2,180	11,800	XX
2009:								
August	270	285	2	71	42	62	732	6,420
September	165	68	--	64	56	164	518	6,940
October:								
Austria	--	--	--	1	--	3	4	26
Belgium	--	--	--	--	(3)	(3)	(3)	6
Bolivia	152	--	--	--	--	--	152	687
Brazil	--	--	--	--	--	--	--	14
Canada	35	--	--	4	(3)	--	39	896
China	--	158	2	17	71	117	365	3,580
Czech Republic	--	--	--	(3)	9	1	9	28
France	--	--	--	(3)	(3)	(3)	(3)	9
Germany	--	--	--	29	4	1	34	321
Guatemala	--	--	--	--	--	--	--	8
Hong Kong	--	--	--	--	8	(3)	8	12
Ireland	--	--	--	--	--	--	--	5
Israel	--	--	--	--	19	--	19	238
Japan	--	--	--	1	--	5	6	39
Kenya	--	--	--	--	--	--	--	20
Korea, Republic of	--	--	--	17	--	(3)	17	167
Mexico	--	--	--	--	--	(3)	(3)	20
Mongolia	--	--	--	--	--	--	--	23
Netherlands	--	--	--	--	--	(3)	(3)	4
Peru	36	--	--	--	--	--	36	373
Portugal	52	--	--	--	--	--	52	652
Rwanda	--	--	--	--	--	--	--	204
Singapore	--	--	--	--	--	5	5	12
Spain	--	--	--	--	--	(3)	(3)	187
Sweden	--	--	--	--	2	(3)	2	19
Thailand	14	--	--	--	--	--	14	58
Uganda	--	--	--	--	--	--	--	12
United Kingdom	--	--	--	2	--	(3)	2	21
Vietnam	--	--	--	--	--	--	--	50
Other	--	--	--	--	--	3	3	13
Total	289	158	2	71	111	134	766	7,710
Total, year to date	3,130	1,960	36	720	606	1,260	7,710	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 2009 totaled 94 metric tons, tungsten content, to give a year-to-date total of 697 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 concen- trates	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:								
September	165	68	--	64	56	164	518	6,940
October	289	158	2	71	111	134	766	7,710
November:								
Austria	--	--	--	--	1	3	4	30
Belgium	--	--	--	--	2	--	2	8
Bolivia	56	--	--	--	--	--	56	742
Brazil	--	--	--	--	--	--	--	14
Canada	(3)	--	--	4	1	--	5	901
China	--	249	--	3	88	31	371	3,950
Czech Republic	--	--	--	(3)	--	1	1	28
France	--	--	--	(3)	1	1	2	11
Germany	--	--	--	33	5	1	39	360
Guatemala	--	--	--	--	--	--	--	8
Hong Kong	--	--	--	--	--	(3)	(3)	12
Ireland	--	--	--	--	--	--	--	5
Israel	--	--	--	2	4	(3)	6	244
Japan	--	--	--	6	--	5	11	50
Kenya	--	--	--	--	--	--	--	20
Korea, Republic of	--	--	--	18	1	(3)	19	186
Mexico	4	--	--	--	--	--	4	24
Mongolia	--	--	--	--	--	--	--	23
Netherlands	--	--	--	--	--	(3)	(3)	4
Peru	45	--	--	--	--	--	45	418
Portugal	31	--	--	--	--	--	31	683
Rwanda	--	--	--	--	--	--	--	204
Singapore	--	--	--	--	--	1	1	14
Spain	--	--	--	--	--	--	--	187
Sweden	--	--	--	--	8	(3)	8	27
Thailand	14	--	--	--	--	--	14	73
Uganda	--	--	--	--	--	--	--	12
United Kingdom	--	--	--	--	--	(3)	(3)	21
Vietnam	--	--	--	--	--	--	--	50
Other	--	--	--	--	1	4	5	17
Total	150	249	--	67	112	47	626	8,330
Total, year to date	3,280	2,210	36	787	718	1,300	8,330	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 2009 totaled 110 metric tons, tungsten content, to give a year-to-date total of 807 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:							
July	3	31	36	33	32	135	919
August	2	22	25	41	38	127	1,050
September:							
Australia	--	--	--	--	1	1	20
Austria	--	--	--	--	--	--	59
Brazil	(4)	--	1	(4)	(4)	2	25
Canada	--	--	7	5	10	22	157
Chile	--	--	1	(4)	7	8	9
China	--	--	1	(4)	(4)	1	43
Czech Republic	--	--	--	--	1	1	23
France	--	--	--	(4)	(4)	(4)	28
Germany	--	49	11	3	7	70	404
Hong Kong	--	--	--	(4)	--	(4)	8
Hungary	--	2	--	--	2	4	14
India	--	--	1	1	(4)	3	12
Indonesia	--	--	--	--	(4)	(4)	6
Ireland	--	--	--	(4)	1	1	16
Italy	--	--	1	--	--	1	10
Japan	--	--	1	--	2	3	32
Korea, Republic of	--	--	1	(4)	(4)	1	6
Malaysia	--	--	--	2	(4)	2	9
Mexico	--	--	1	(4)	2	3	31
Netherlands	--	--	--	--	(4)	(4)	41
Philippines	--	--	--	--	(4)	(4)	9
Poland	--	--	--	2	--	2	13
Singapore	--	--	1	(4)	1	2	29
South Africa	--	--	--	2	(4)	2	28
Sweden	--	--	--	--	(4)	(4)	6
Taiwan	--	--	2	4	3	8	32
United Kingdom	--	--	2	(4)	1	3	74
Venezuela	--	--	(4)	(4)	--	(4)	7
Vietnam	--	--	14	--	(4)	14	19
Other	--	--	1	1	2	4	35
Total	(4)	51	44	22	42	158	1,210
Total, year to date	12	250	268	315	360	1,210	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 2009 totaled 108 metric tons, tungsten content, to give a year-to-date total of 788 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:							
August	2	22	25	41	38	127	1,050
September	(4)	51	44	22	42	158	1,210
October:							
Australia	--	--	--	(4)	(4)	(4)	21
Austria	--	--	3	15	--	18	77
Brazil	--	--	1	1	1	2	27
Canada	(4)	--	6	10	6	22	179
Chile	--	--	(4)	--	(4)	(4)	9
China	(4)	--	3	(4)	1	4	47
Czech Republic	--	--	--	--	3	3	26
France	--	--	--	(4)	(4)	(4)	28
Germany	(4)	36	15	22	12	85	489
Hong Kong	--	--	--	(4)	(4)	(4)	8
Hungary	--	--	--	--	(4)	(4)	14
India	--	1	1	(4)	(4)	2	14
Indonesia	--	--	--	--	--	--	6
Ireland	--	--	--	5	(4)	5	21
Italy	--	2	--	--	(4)	2	12
Japan	--	--	(4)	(4)	2	2	35
Korea, Republic of	--	--	1	--	(4)	1	7
Malaysia	(4)	--	(4)	--	(4)	(4)	9
Mexico	--	--	(4)	(4)	3	3	34
Netherlands	--	--	--	--	(4)	(4)	41
Philippines	--	--	--	--	--	--	9
Poland	--	--	--	--	--	--	13
Singapore	--	--	1	1	1	4	33
South Africa	--	--	(4)	4	--	4	32
Spain	9	--	--	--	(4)	9	13
Sweden	--	--	--	--	1	1	7
Taiwan	--	--	1	9	1	12	44
United Kingdom	--	--	1	1	13	15	89
Venezuela	--	--	(4)	1	--	1	8
Vietnam	--	--	--	--	(4)	(4)	20
Other	--	--	1	4	3	8	40
Total	10	38	34	74	49	206	1,410
Total, year to date	22	289	301	389	410	1,410	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 2009 totaled 21 metric tons, tungsten content, to give a year-to-date total of 810 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:							
September	(4)	51	44	22	42	158	1,210
October	10	38	34	74	49	206	1,410
November:							
Australia	--	--	--	3	--	3	24
Austria	--	--	--	--	--	--	77
Brazil	--	--	1	--	2	3	30
Canada	--	--	6	3	9	18	198
Chile	--	--	--	--	--	--	9
China	1	--	3	(4)	(4)	5	52
Czech Republic	--	--	(4)	(4)	4	4	30
France	--	--	--	(4)	(4)	(4)	28
Germany	--	37	18	22	6	82	571
Hong Kong	--	--	--	(4)	--	(4)	8
Hungary	--	--	--	--	(4)	(4)	14
India	--	--	1	(4)	(4)	2	15
Indonesia	--	--	--	--	(4)	(4)	6
Ireland	--	--	2	6	--	8	29
Italy	--	--	--	(4)	(4)	(4)	12
Japan	--	--	(4)	1	4	5	40
Korea, Republic of	--	--	1	(4)	(4)	1	8
Malaysia	--	--	--	--	(4)	(4)	9
Mexico	--	--	(4)	(4)	23	23	57
Netherlands	--	--	--	--	--	--	41
Philippines	--	--	--	--	(4)	(4)	9
Poland	--	--	--	(4)	--	(4)	13
Singapore	--	--	1	1	1	3	37
South Africa	--	--	(4)	1	--	1	33
Spain	--	--	--	(4)	(4)	(4)	13
Sweden	--	--	--	--	(4)	(4)	8
Taiwan	--	--	--	1	(4)	1	45
United Kingdom	--	--	(4)	(4)	1	1	90
Venezuela	--	--	(4)	--	(4)	(4)	9
Vietnam	--	--	--	--	(4)	(4)	20
Other	--	--	3	1	2	7	46
Total	1	37	37	41	54	170	1,580
Total, year to date	23	325	339	430	463	1,580	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 1/2 unit.

Note: Estimated exports of waste and scrap in November 2009 totaled 47 metric tons, tungsten content, to give a year-to-date total of 857 metric tons, tungsten content.

Source: U.S. Census Bureau.