

# Mineral Industry Surveys

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## TUNGSTEN IN JANUARY, FEBRUARY, AND MARCH 2010

The following quarterly comparisons are based on preliminary data. During the quarter ending March 31, 2010, total U.S. net production of intermediate tungsten products, including metal powder and tungsten carbide powder, was 8% higher than production during the quarter ending December 31, 2009, and 71% higher than that produced during the quarter ending March 31, 2009, according to the U.S. Geological Survey.

Total U.S. reported consumption of ferrotungsten, tungsten metal powder, tungsten carbide powder, tungsten scrap, and other tungsten materials during the quarter ending March 31, 2010, was slightly higher than consumption during the quarter ending December 31, 2009, and 27% higher than that consumed during the quarter ending March 31, 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 February 2010 and full year 2009 totals by material are published in this issue.

### Update

Selected prices from Metal Bulletin for January, February, and March 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 (WO<sub>3</sub>) 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:

January:

Low—\$182/metric ton unit WO<sub>3</sub> (\$165/short ton unit WO<sub>3</sub>)  
High—\$209/metric ton unit WO<sub>3</sub> (\$190/short ton unit WO<sub>3</sub>)

February:

Low—\$182/metric ton unit WO<sub>3</sub> (\$165/short ton unit WO<sub>3</sub>)  
High—\$204/metric ton unit WO<sub>3</sub> (\$185/short ton unit WO<sub>3</sub>)

March:

Low—\$182/metric ton unit WO<sub>3</sub> (\$165/short ton unit WO<sub>3</sub>)  
High—\$204/metric ton unit WO<sub>3</sub> (\$185/short ton unit WO<sub>3</sub>)

Concentrates:

January:

Low—\$140/metric ton unit WO<sub>3</sub> (\$127/short ton unit WO<sub>3</sub>)  
High—\$160/metric ton unit WO<sub>3</sub> (\$145/short ton unit WO<sub>3</sub>)

February:

Low—\$140/metric ton unit WO<sub>3</sub> (\$127/short ton unit WO<sub>3</sub>)  
High—\$160/metric ton unit WO<sub>3</sub> (\$145/short ton unit WO<sub>3</sub>)

March:

Low—\$140/metric ton unit WO<sub>3</sub> (\$127/short ton unit WO<sub>3</sub>)  
High—\$160/metric ton unit WO<sub>3</sub> (\$145/short ton unit WO<sub>3</sub>)

TABLE 1  
U.S. SALIENT TUNGSTEN STATISTICS<sup>1</sup>

(Metric tons, tungsten content)

Period	Concentrate				Reported scrap consumption	Intermediate products			
	Reported consump- tion	Imports for consumption	Stocks, end of period Industry <sup>2</sup>	U.S. Gov- ernment <sup>3</sup>		Net production <sup>4</sup>	Reported consump- tion <sup>5</sup>	Stocks, end of period Industry <sup>6</sup>	U.S. Gov- ernment <sup>3</sup>
2009:									
January	W	459	W	19,700	313	334	647 <sup>r</sup>	779	183
February	W	341	W	19,800	227	389	580 <sup>r</sup>	696	183
March	W	408	W	19,800	259	436	652 <sup>r</sup>	725	183
April	W	319	W	19,800	273	330	562	694	183
May	W	315	W	19,700	251	379	649 <sup>r</sup>	713	183
June	W	272	W	19,700	179	441	689	690	183
July	W	289	W	19,700	276	286	584	623	183
August	W	270	W	19,700	213	400	667 <sup>r</sup>	633	183
September	W	165	W	19,700	308	446	702 <sup>r</sup>	693	172
October	W	289	W	19,500	395	669	794 <sup>r</sup>	740	172
November	W	150	W	19,300	363	575	758 <sup>r</sup>	722	172
December	W	306	W	19,000	351	589	776 <sup>r</sup>	678	171
January-December	W	3,590	XX	XX	3,410	5,270	8,060 <sup>r</sup>	XX	XX
2010:									
January	W	173	W	18,800	419	618	823	745	171
February	W	249	W	18,600	295	639	753	838	171
March	W	181	W	18,300	443	720	805	830	171
Total	W	602	XX	XX	1,160	1,980	2,380	XX	XX

<sup>r</sup>Revised. W Withheld to avoid disclosing company proprietary data. XX Not applicable.

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

<sup>2</sup>Reported by consumers.

<sup>3</sup>Data from Defense National Stockpile Center. Data are uncommitted material only.

<sup>4</sup>Net production of tungsten metal powder and tungsten carbide powder.

<sup>5</sup>Includes estimates and scrap.

<sup>6</sup>Data for tungsten metal powder and tungsten carbide powder reported by producers.

TABLE 2  
U.S. PRODUCTION, CONSUMPTION, AND STOCKS OF  
AMMONIUM PARATUNGSTATE, BY MONTH<sup>1</sup>

(Metric tons, tungsten content)

Period	Production	Consumption	Stocks, end of period <sup>2</sup>
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
January-December	W	6,860	XX
2010:			
January	W	793	W
February	W	726	W
March	W	854	W
Total	W	2,370	XX

W Withheld to avoid disclosing company proprietary data.

XX Not applicable.

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

<sup>2</sup>Producers and consumers.

<sup>3</sup>Withheld to avoid disclosing company proprietary data; included in "Total."

TABLE 3  
U.S. PRODUCTION AND STOCKS OF TUNGSTEN PRODUCTS<sup>1</sup>

(Metric tons, tungsten content)

Product <sup>3</sup>	Net production <sup>2</sup>					Stocks at end of period			
	2010					2010			
	2009	January	February	March	Year to date	2009	January	February	March
Metal powder	2,860	354	302	335	991	377	502	526	507
Tungsten carbide powder	2,410	264	337	386	987	301	242	313	323
Total	5,270	618	639	720	1,980	678	745	838	830

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

<sup>2</sup>Receipts plus gross production less quantity used to make other products in table.

<sup>3</sup>Data 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<sup>1, 2, 3</sup>

(Metric tons, tungsten content)

End use	2010			
	January	February	March	Year to date
Steels	20	21	21	62
Superalloys	W	W	W	W
Other alloys (excludes steels and superalloys) <sup>4</sup>	W	W	W	W
Cemented carbides <sup>5</sup>	412	412	412	1,240
Mill products made from metal powder	W	W	W	W
Chemical uses	W	W	W	W
Miscellaneous and unspecified	391	320	372	1,080
Total	823	753	805	2,380

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

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

<sup>2</sup>Does not include materials used in making primary tungsten products.

<sup>3</sup>Includes estimates.

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

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

TABLE 5  
U.S. REPORTED CONSUMPTION AND CONSUMER STOCKS OF TUNGSTEN MATERIALS<sup>1</sup>

(Metric tons, tungsten content)

Period	Ferro-tungsten	Tungsten metal powder	Tungsten carbide powder	Tungsten scrap	Other tungsten materials <sup>2</sup>	Total
Consumption:						
2009:						
January	20 <sup>r</sup>	W	414	W	6	647 <sup>r</sup>
February	20 <sup>r</sup>	W	406	W	6	580 <sup>r</sup>
March	20 <sup>r</sup>	W	407	W	6	652 <sup>r</sup>
April	20 <sup>r</sup>	W	404	W	6	562
May	20	W	403	W	6	649 <sup>r</sup>
June	20	W	404	W	6	689
July	20 <sup>r</sup>	W	404	W	6	584
August	20	W	404	W	6	667 <sup>r</sup>
September	20 <sup>r</sup>	W	404	W	6	702 <sup>r</sup>
October	20 <sup>r</sup>	W	404	W	6	794 <sup>r</sup>
November	20 <sup>r</sup>	W	404	W	6	758 <sup>r</sup>
December	20 <sup>r</sup>	W	404	W	6	776 <sup>r</sup>
January-December	238	W	4,860	W	74	8,060 <sup>r</sup>
2010:						
January	20	W	404	W	6	823
February	20	W	404	W	6	753
March	20	W	404	W	6	805
Total	60	W	1,210	W	18	2,380
Stocks:						
2009:						
January	15 <sup>r</sup>	24	400	49	10 <sup>r</sup>	497 <sup>r</sup>
February	15 <sup>r</sup>	26	393	49	10 <sup>r</sup>	493
March	15 <sup>r</sup>	26	395	52	10 <sup>r</sup>	498 <sup>r</sup>
April	15 <sup>r</sup>	26	387	51	10 <sup>r</sup>	488 <sup>r</sup>
May	14 <sup>r</sup>	25	348	57	10 <sup>r</sup>	454 <sup>r</sup>
June	15	25	387	49	10 <sup>r</sup>	486
July	15 <sup>r</sup>	25	387	55	10 <sup>r</sup>	492 <sup>r</sup>
August	15	25	387	55	10 <sup>r</sup>	492
September	15 <sup>r</sup>	25	387	50	10 <sup>r</sup>	486 <sup>r</sup>
October	15 <sup>r</sup>	25	387	48	10 <sup>r</sup>	484 <sup>r</sup>
November	15 <sup>r</sup>	25	387	57	10 <sup>r</sup>	493 <sup>r</sup>
December	15 <sup>r</sup>	24	387	47	10 <sup>r</sup>	484
2010:						
January	15	24	387	46	9	482
February	15	24	387	50	9	484
March	15	23	387	50	9	484

<sup>r</sup>Revised. W Withheld to avoid disclosing company proprietary data; included in "Total."

<sup>1</sup>Includes estimates.

<sup>2</sup>Includes tungsten chemicals.

TABLE 6A  
U.S. IMPORTS FOR CONSUMPTION OF TUNGSTEN, BY COUNTRY<sup>1</sup>

(Metric tons, tungsten content)

Period and country of origin	Ores and concentrates	Ammonium tungstates	Ferrotungsten	Metal powder	Tungsten carbide powder	Other <sup>2</sup>	Total	Total, year to date
2008	3,990	2,510	309	1,180	1,600	2,180	11,800	XX
2009:								
October	289	158	2	71	111	134	766	7,710
November	150	249	--	67	112	47	626	8,330
December:								
Austria	--	--	--	--	--	6	6	36
Belgium	--	--	--	--	2	1	4	12
Bolivia	148	--	--	--	--	--	148	891
Brazil	--	--	--	--	--	--	--	14
Canada	--	--	--	--	1	--	1	902
China	--	332	2	13	19	10	376	4,330
Czech Republic	--	--	--	(3)	1	1	2	30
France	--	--	--	--	(3)	(3)	1	11
Germany	--	3	--	8	1	1	13	373
Guatemala	--	--	--	--	--	--	--	8
Hong Kong	--	--	--	--	--	(3)	(3)	12
India	--	--	--	--	--	(3)	(3)	8
Ireland	--	--	--	--	--	--	--	5
Israel	--	--	--	7	4	--	11	255
Japan	--	--	--	8	--	1	10	60
Kenya	--	--	--	--	--	--	--	20
Korea, Republic of	--	--	--	14	(3)	--	14	200
Mexico	--	--	--	--	--	--	--	24
Mongolia	12	--	--	--	--	--	12	35
Netherlands	--	--	--	--	--	14	14	18
Peru	9	--	--	--	--	--	9	427
Portugal	73	--	--	--	--	--	73	756
Russia	--	--	--	--	--	16	16	16
Rwanda	12	--	--	--	--	--	12	216
Singapore	--	--	--	--	--	1	1	15
Spain	10	--	--	(3)	--	--	10	197
Sweden	--	--	--	--	5	(3)	6	33
Thailand	43	--	--	--	--	--	43	115
Uganda	--	--	--	--	--	--	--	12
United Kingdom	--	(3)	--	--	--	(3)	(3)	21
Vietnam	--	--	8	--	--	--	8	58
Other	--	--	--	--	(3)	(3)	(3)	10
Total	306	335	10	50	35	52	789	9,120
Total, year to date	3,590	2,540	46	837	753	1,360	9,120	XX

XX Not applicable. -- Zero.

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

<sup>2</sup>Includes 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.

<sup>3</sup>Less than ½ unit.

Note: Imports of waste and scrap in December 2009 totaled 71 metric tons, tungsten content, to give a year-to-date total of 879 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 6B  
U.S. IMPORTS FOR CONSUMPTION OF TUNGSTEN, BY COUNTRY<sup>1</sup>

(Metric tons, tungsten content)

Period and country of origin	Ores and concen- trates	Ammonium tungstates	Ferro- tungsten	Metal powder	Tungsten carbide		Total	Total, year to date
					powder	Other <sup>2</sup>		
2009	3,590	2,540	46	837	753	1,360	9,120	XX
2010:								
January:								
Austria	--	--	--	1	--	2	3	3
Belgium	--	--	--	--	(3)	1	1	1
Bolivia	29	--	--	--	--	--	29	29
Canada	(3)	--	--	4	4	(3)	8	8
China	--	325	33	18	138	134	647	647
Czech Republic	--	--	--	(3)	--	1	1	1
France	--	--	--	(3)	(3)	(3)	1	1
Germany	--	--	--	17	11	1	28	28
Hong Kong	--	--	--	--	--	16	16	16
Israel	--	--	--	38	11	--	50	50
Japan	--	--	--	4	--	1	6	6
Korea, Republic of	--	--	--	23	(3)	(3)	24	24
Peru	44	--	--	--	--	--	44	44
Portugal	42	--	--	--	--	--	42	42
Russia	--	--	--	--	--	1	1	1
Rwanda	8	--	--	--	--	--	8	8
Singapore	--	--	--	--	--	1	1	1
South Africa	--	--	--	--	--	16	16	16
Spain	39	--	--	--	--	(3)	40	40
Sweden	--	--	--	--	10	(3)	10	10
United Kingdom	11	--	--	--	(3)	(3)	11	11
Other	--	--	--	--	--	(3)	(3)	(3)
Total	173	325	33	106	173	175	984	984
Total, year to date	173	325	33	106	173	175	984	XX

XX Not applicable. -- Zero.

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

<sup>2</sup>Includes 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.

<sup>3</sup>Less than ½ unit.

Note: Imports of waste and scrap in January 2010 totaled 27 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 6C  
U.S. IMPORTS FOR CONSUMPTION OF TUNGSTEN, BY COUNTRY<sup>1</sup>

(Metric tons, tungsten content)

Period and country of origin	Ores and concentrates	Ammonium tungstates	Ferro-tungsten	Metal powder	Tungsten carbide powder	Other <sup>2</sup>	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	XX
February:								
Austria	--	--	--	--	--	4	4	7
Belgium	--	--	--	--	20	--	20	20
Bolivia	88	--	--	--	--	--	88	117
Canada	(3)	--	--	10	8	(3)	18	26
China	--	161	8	10	30	207	415	1,060
Czech Republic	--	--	--	(3)	1	1	1	2
France	--	--	--	(3)	(3)	(3)	1	1
Germany	--	--	--	24	8	1	33	61
Hong Kong	--	--	--	--	--	1	1	17
Hungary	--	--	--	--	--	(3)	(3)	1
India	--	--	--	--	1	(3)	1	1
Israel	--	--	--	24	16	--	40	90
Japan	--	--	--	4	--	3	7	12
Korea, Republic of	--	--	--	19	--	(3)	20	43
Mexico	4	--	--	--	--	--	4	4
Peru	45	--	--	--	--	--	45	89
Portugal	52	--	--	--	--	--	52	94
Russia	--	--	--	--	--	(3)	(3)	1
Rwanda	23	--	--	--	--	--	23	30
Singapore	--	--	--	--	--	1	1	2
South Africa	--	--	--	--	--	--	--	16
Spain	10	--	--	--	--	(3)	10	49
Sweden	--	--	--	--	--	(3)	(3)	10
Thailand	15	--	--	--	--	--	15	15
United Kingdom	12	(3)	--	--	--	1	13	24
Vietnam	--	--	4	--	--	--	4	4
Other	--	--	--	--	--	(3)	(3)	(3)
Total	249	161	12	91	84	219	815	1,800
Total, year to date	422	486	44	197	257	394	1,800	XX

XX Not applicable. -- Zero.

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

<sup>2</sup>Includes 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.

<sup>3</sup>Less than ½ unit.

Note: Imports of waste and scrap in February 2010 totaled 38 metric tons, tungsten content, to give a year-to-date total of 65 metric tons, tungsten content.

Source: U.S. Census Bureau.



TABLE 7A  
U.S. EXPORTS OF TUNGSTEN, BY COUNTRY<sup>1</sup>

(Metric tons, tungsten content)

Period and country of destination	Ores and concentrates <sup>2</sup>	Ammonium tungstates	Metal powder <sup>2</sup>	Tungsten carbide powder	Other <sup>3</sup>	Total	Total, year to date
2008	496	621	981	1,340	888	4,320	XX
2009:							
October	10	38	34	74	49	206	1,410
November	1	37	37	41	54	170	1,580
December:							
Australia	--	--	--	2	1	3	27
Austria	--	--	--	--	--	--	77
Brazil	--	--	(4)	(4)	4	5	35
Canada	--	--	4	5	21	30	228
Chile	--	--	--	--	--	--	9
China	3	--	1	(4)	(4)	5	57
Czech Republic	--	--	--	--	3	3	33
France	--	--	--	3	25	28	56
Germany	--	49	7	16	7	80	650
Hong Kong	--	--	--	(4)	(4)	(4)	8
Hungary	--	--	--	--	8	8	22
India	--	--	2	(4)	--	2	18
Indonesia	--	--	--	--	(4)	(4)	6
Ireland	1	--	1	3	--	5	33
Italy	--	--	--	--	(4)	(4)	12
Japan	--	--	(4)	(4)	1	2	42
Korea, Republic of	--	--	(4)	(4)	(4)	(4)	8
Malaysia	4	--	(4)	2	(4)	6	15
Mexico	--	--	(4)	(4)	2	3	60
Netherlands	--	--	--	--	--	--	41
Philippines	--	--	--	(4)	(4)	(4)	9
Poland	--	--	--	--	--	--	13
Singapore	--	--	1	(4)	1	2	38
South Africa	--	--	1	--	--	1	34
Spain	--	--	--	--	(4)	(4)	13
Sweden	--	--	--	(4)	(4)	(4)	8
Taiwan	--	--	2	4	--	6	51
United Kingdom	--	--	1	(4)	3	5	95
Venezuela	--	--	--	1	--	1	9
Vietnam	7	--	--	--	--	7	27
Other	--	--	(4)	2	1	2	49
Total	15	49	21	39	79	204	1,790
Total, year to date	38	375	360	469	543	1,790	XX

XX Not applicable. -- Zero.

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

<sup>2</sup>Tungsten content estimated from reported gross weight.

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

<sup>4</sup>Less than ½ unit.

Note: Estimated exports of waste and scrap in December 2009 totaled 125 metric tons, tungsten content, to give a year-to-date total of 981 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 7B  
U.S. EXPORTS OF TUNGSTEN, BY COUNTRY<sup>1</sup>

(Metric tons, tungsten content)

Period and country of destination	Ores and concentrates <sup>2</sup>	Ammonium tungstates	Metal powder <sup>2</sup>	Tungsten carbide powder	Other <sup>3</sup>	Total	Total, year to date
2009	38	375	360	469	543	1,790	XX
2010:							
January:							
Australia	--	--	--	--	1	1	1
Austria	--	6	1	--	--	7	7
Belgium	--	--	--	(4)	2	2	2
Brazil	--	--	2	3	1	6	6
Canada	--	--	7	7	23	37	37
China	--	--	4	(4)	1	5	5
Czech Republic	--	--	--	--	4	4	4
France	--	--	(4)	(4)	1	1	1
Germany	--	67	15	4	7	93	93
Hong Kong	--	--	(4)	(4)	--	1	1
India	--	--	1	1	(4)	2	2
Indonesia	--	--	--	(4)	1	1	1
Ireland	--	--	1	(4)	--	1	1
Italy	--	--	(4)	(4)	1	1	1
Japan	--	--	(4)	1	3	4	4
Korea, Republic of	--	--	1	--	(4)	1	1
Mexico	--	--	1	(4)	3	4	4
Netherlands	--	--	8	--	(4)	9	9
Singapore	--	--	1	(4)	2	4	4
South Africa	--	--	2	--	--	2	2
Spain	--	--	--	--	1	1	1
Sweden	--	--	--	--	1	1	1
Switzerland	--	--	3	1	--	4	4
Taiwan	--	--	(4)	5	--	5	5
Turkey	--	--	(4)	--	(4)	1	1
United Kingdom	--	--	--	1	2	2	2
Venezuela	--	--	(4)	2	1	3	3
Vietnam	5	--	--	--	(4)	5	5
Other	--	--	--	(4)	1	2	2
Total	5	73	47	27	56	208	208
Total, year to date	5	73	47	27	56	208	XX

XX Not applicable. -- Zero.

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

<sup>2</sup>Tungsten content estimated from reported gross weight.

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

<sup>4</sup>Less than ½ unit.

Note: Estimated exports of waste and scrap in January 2010 totaled 15 metric tons tungsten content.

Source: U.S. Census Bureau.

TABLE 7C  
U.S. EXPORTS OF TUNGSTEN, BY COUNTRY<sup>1</sup>

(Metric tons, tungsten content)

Period and country of destination	Ores and concentrates <sup>2</sup>	Ammonium tungstates	Metal powder <sup>2</sup>	Tungsten carbide powder	Other <sup>3</sup>	Total	Total, year to date
2009	38	375	360	469	543	1,790	XX
2010:							
January	5	73	47	27	56	208	208
February:							
Australia	--	--	1	3	1	5	6
Austria	--	--	--	--	--	--	7
Belgium	--	--	--	(4)	(4)	(4)	2
Brazil	(4)	--	1	(4)	(4)	2	8
Canada	--	--	6	6	9	21	59
China	--	--	1	1	(4)	3	8
Czech Republic	--	--	--	--	2	2	5
Germany	49	19	20	10	10	108	201
India	--	--	--	(4)	(4)	(4)	2
Indonesia	--	--	--	--	1	1	2
Ireland	--	--	1	5	--	6	7
Israel	--	--	(4)	--	2	2	2
Italy	--	1	--	--	--	1	2
Japan	--	--	1	(4)	1	2	6
Korea, Republic of	--	--	1	(4)	(4)	2	3
Mexico	--	--	(4)	(4)	2	2	7
Netherlands	--	--	--	--	(4)	(4)	9
Singapore	--	--	1	--	4	5	9
South Africa	--	--	(4)	(4)	--	(4)	2
Switzerland	--	--	--	--	(4)	(4)	4
Taiwan	--	--	2	6	--	9	14
United Kingdom	--	--	(4)	1	2	3	5
Venezuela	--	--	(4)	2	(4)	2	5
Vietnam	--	--	--	--	(4)	(4)	5
Other	(4)	--	1	1	3	5	11
Total	49	21	37	37	39	183	391
Total, year to date	54	93	85	64	94	391	XX

XX Not applicable. -- Zero.

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

<sup>2</sup>Tungsten content estimated from reported gross weight.

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

<sup>4</sup>Less than ½ unit.

Note: Estimated exports of waste and scrap in February 2010 totaled 38 metric tons, tungsten content, to give a year-to-date total of 53 metric tons, tungsten content.

Source: U.S. Census Bureau.