

Mineral Industry Surveys

For information, contact:

Kim B. Shedd, Cobalt Commodity Specialist
National Minerals Information Center
U.S. Geological Survey
989 National Center
Reston, VA 20192
Telephone: (703) 648-4974, Fax: (703) 648-7757
Email: ksheddd@usgs.gov

Annie Hwang (Data)
Telephone: (703) 648-7952
Fax: (703) 648-7975
Email: ahwang@usgs.gov

Internet: <http://minerals.usgs.gov/minerals/>

TUNGSTEN IN JULY THROUGH SEPTEMBER 2014

U.S. net production of intermediate tungsten products, including metal powder and tungsten carbide powder, was slightly less during January through September 2014 than net production during the same period in 2013.

Prices

Prices were sourced from Platts Metals Daily. The prices listed below in dollars per metric ton unit were converted from short-ton-unit prices and rounded to the nearest dollar.

July:

Ammonium paratungstate, U.S. free market:

Low—\$353/metric ton unit WO₃ (\$320/short ton unit WO₃)

High—\$364/metric ton unit WO₃ (\$330/short ton unit WO₃)

Concentrates:

Low—\$331/metric ton unit WO₃ (\$300/short ton unit WO₃)

High—\$353/metric ton unit WO₃ (\$320/short ton unit WO₃)

August:

Ammonium paratungstate, U.S. free market:

Low—\$353/metric ton unit WO₃ (\$320/short ton unit WO₃)

High—\$364/metric ton unit WO₃ (\$330/short ton unit WO₃)

Concentrates:

Low—\$331/metric ton unit WO₃ (\$300/short ton unit WO₃)

High—\$353/metric ton unit WO₃ (\$320/short ton unit WO₃)

September:

Ammonium paratungstate, U.S. free market:

Low—\$353/metric ton unit WO₃ (\$320/short ton unit WO₃)

High—\$364/metric ton unit WO₃ (\$330/short ton unit WO₃)

Concentrates:

Low—\$331/metric ton unit WO₃ (\$300/short ton unit WO₃)

High—\$353/metric ton unit WO₃ (\$320/short ton unit WO₃)

List services and Web feed subscribers are the first to receive notification of USGS minerals information publications and data releases. For information on how to subscribe, go to <http://minerals.usgs.gov/minerals/>.

TABLE 1
U.S. SALIENT TUNGSTEN STATISTICS¹

(Metric tons, tungsten content)

Period	Concentrate				Intermediate products		
	Reported consumption ^p	Imports for consumption	Stocks, end of period		Net production ^{p,4}	Stocks, end of period	
			Industry ^{p,2}	U.S. Government ³		Industry Producer ^{p,5}	U.S. Government ³
2013:							
July	W	249	W	12,300	517	732	125
August	W	262	W	12,100	W	720	125
September	W	273	W	12,100	472	714	125
October	W	222	W	12,100	523	801	125
November	W	176	W	12,000	W	801	125
December	W	286	W	11,900	W	769	125
January–December	W	3,690	W	11,900	6,150	769	125
2014:							
January	W	269	W	11,900	521	776	125
February	W	530	W	11,900	561	858	125
March	W	436	W	11,800	W	832	125
April	W	364	W	11,700	W	812	125
May	W	274	W	11,700	508	762	125
June	W	303	W	11,600	546	752	125
July	W	396	W	NA	517	755	125 ^e
August	W	190	W	NA	488	741	125 ^e
September	W	326	W	NA	503	708	125 ^e
January–September	W	3,090	W	NA	4,710	708	125 ^e

^eEstimated. ^pPreliminary. NA Not available. W Withheld to avoid disclosing company proprietary data.

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

²Reported by consumers.

³Data from the Defense Logistics Agency, DLA Strategic Materials. Data are uncommitted material only.

⁴Net production of tungsten metal powder and tungsten carbide powder.

⁵Data for tungsten metal powder and tungsten carbide powder reported by producers. Includes estimates.

TABLE 2a
U.S. PRODUCTION AND STOCKS OF TUNGSTEN PRODUCTS^{p,1}

(Metric tons, tungsten content)

Product ⁴	Net production ²				Stocks at end of period		
	2013	2014		January–July ⁴	2013	2014	
		June	July			June	July
Metal powder	W	W	W	W	W	W	W
Tungsten carbide powder	W	W	W	W	W	W	W
Total	6,150	546	517	3,720	769	752	755

^pPreliminary. W Withheld to avoid disclosing company proprietary data.

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 previously published data.

TABLE 2b
U.S. PRODUCTION AND STOCKS OF TUNGSTEN PRODUCTS^{p, 1}

(Metric tons, tungsten content)

Product ³	Net production ²				Stocks at end of period		
	2013	2014			2013	2014	
		July	August	January–August ⁴		July	August
Metal powder	W	W	W	W	W	W	W
Tungsten carbide powder	W	W	W	W	W	W	W
Total	6,150	517	488	4,210	769	755	741

^pPreliminary. W Withheld to avoid disclosing company proprietary data.

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 previously published data.

TABLE 2c
U.S. PRODUCTION AND STOCKS OF TUNGSTEN PRODUCTS^{p, 1}

(Metric tons, tungsten content)

Product ³	Net production ²				Stocks at end of period		
	2013	2014			2013	2014	
		August	September	January–September ⁴		August	September
Metal powder	W	W	W	W	W	W	W
Tungsten carbide powder	W	W	W	W	W	W	W
Total	6,150	488	503	4,710	769	741	708

^pPreliminary. W Withheld to avoid disclosing company proprietary data.

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 previously published data.

TABLE 3a
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
2013	3,690	2,220	470	1,410	827	2,260	10,900	XX
2014:								
May	274	167	16	107	83	227	873	4,970
June	303	126	8	102	78	315	931	5,900
July:								
Australia	9	--	--	--	--	(3)	10	158
Austria	--	--	--	--	21	5	27	101
Belgium	--	--	--	--	2	--	2	13
Bolivia	91	--	--	--	--	--	91	652
Brazil	--	--	--	--	--	--	--	16
Canada	93	--	--	25	4	1	123	865
China	--	87	12	36	30	122	287	2,790
Colombia	--	--	--	--	--	--	--	16
Czech Republic	--	--	--	1	--	(3)	1	11
France	--	--	--	1	1	(3)	2	13
Germany	--	78	--	10	33	6	128	386
India	--	--	--	--	--	3	3	25
Ireland	--	--	--	--	--	--	--	4
Israel	--	--	--	10	--	(3)	10	90
Japan	--	--	--	1	(3)	2	3	47
Korea, Republic of	--	--	--	26	--	--	26	151
Luxembourg	--	--	--	--	--	(3)	(3)	13
Mexico	--	--	--	--	--	(3)	(3)	8
Mongolia	28	--	--	--	--	--	28	28
Peru	10	--	--	--	--	--	10	20
Portugal	33	--	--	--	--	--	33	339
Russia	26	--	--	--	--	2	28	113
Singapore	--	--	--	--	--	1	1	8
South Africa	--	--	--	--	--	2	2	5
Spain	93	--	--	--	--	--	93	464
Taiwan	--	--	--	--	--	(3)	(3)	18
Thailand	13	--	--	--	--	--	13	51
United Kingdom	--	--	--	(3)	(3)	(3)	1	6
Vietnam	--	--	19	10	--	17	46	447
Other	(3)	--	--	--	--	(3)	(3)	10
Total	396	165	31	121	91	163	967	6,870
January–July	2,570	1,020	300	681	596	1,700	6,870	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 July 2014 totaled 162 metric tons, tungsten content, to give a January–July total of 856 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 3b
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
2013	3,690	2,220	470	1,410	827	2,260	10,900	XX
2014:								
June	303	126	8	102	78	315	931	5,900
July	396	165	31	121	91	163	967	6,870
August:								
Australia	--	--	--	--	--	(3)	(3)	158
Austria	--	--	--	--	--	6	6	107
Belgium	--	--	--	--	--	--	--	13
Bolivia	11	--	--	--	--	--	11	664
Brazil	--	--	--	--	--	--	--	16
Canada	66	--	--	35	8	(3)	110	975
China	--	212	44	59	47	145	507	3,300
Colombia	--	--	--	--	--	--	--	16
Czech Republic	--	--	--	2	--	(3)	2	14
France	--	--	--	--	2	(3)	2	15
Germany	4	91	--	3	10	4	112	497
India	--	--	--	--	--	2	2	27
Ireland	--	--	--	--	--	--	--	4
Israel	--	--	--	12	--	--	12	102
Japan	--	15	--	(3)	--	6	22	69
Korea, Republic of	--	--	--	24	4	(3)	28	179
Luxembourg	--	--	--	--	--	--	--	13
Mexico	--	--	--	--	--	--	--	8
Mongolia	--	--	--	--	--	--	--	28
Peru	10	--	--	--	--	--	10	31
Portugal	34	--	--	--	--	--	34	373
Russia	--	--	--	--	--	1	1	114
Singapore	--	--	--	--	--	1	1	9
South Africa	--	--	--	--	--	--	--	5
Spain	52	--	--	--	--	--	52	516
Taiwan	--	--	--	--	--	(3)	(3)	18
Thailand	13	--	--	--	--	--	13	64
United Kingdom	--	--	--	--	--	1	1	7
Vietnam	--	--	--	--	--	6	6	453
Other	--	--	--	(3)	--	1	1	10
Total	190	318	44	136	71	173	932	7,800
January–August	2,760	1,340	344	817	666	1,870	7,800	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 August 2014 totaled 171 metric tons, tungsten content, to give a January–August total of 1,030 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 3c
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
2013	3,690	2,220	470	1,410	827	2,260	10,900	XX
2014:								
July	396	165	31	121	91	163	967	6,870
August	190	318	44	136	71	173	932	7,800
September:								
Australia	--	--	--	--	--	(3)	(3)	158
Austria	--	--	--	1	34	5	41	148
Belgium	--	--	--	--	--	--	--	13
Bolivia	89	--	--	--	--	--	89	753
Brazil	--	--	--	--	--	--	--	16
Canada	105	--	--	46	10	(3)	161	1,140
China	--	9	20	54	17	150	250	3,550
Colombia	12	--	--	--	--	--	12	27
Czech Republic	--	--	--	--	6	(3)	6	20
France	--	--	--	(3)	1	(3)	1	16
Germany	4	13	--	12	2	26	57	554
India	--	--	--	--	--	3	3	30
Ireland	--	--	--	--	--	--	--	4
Israel	--	--	--	9	1	(3)	11	113
Japan	--	15	--	2	--	7	24	93
Korea, Republic of	--	--	--	10	--	1	11	190
Luxembourg	--	--	--	--	--	--	--	13
Mexico	--	--	--	--	--	--	--	8
Mongolia	20	--	--	--	--	--	20	48
Peru	--	--	--	--	--	--	--	31
Portugal	24	--	--	--	--	--	24	396
Russia	--	--	--	--	--	1	1	115
Singapore	--	--	--	--	--	(3)	(3)	9
South Africa	--	--	--	--	--	--	--	5
Spain	73	--	--	--	--	--	73	588
Taiwan	--	--	--	--	--	(3)	(3)	18
Thailand	--	--	--	--	--	(3)	(3)	64
United Kingdom	--	--	--	--	(3)	(3)	(3)	7
Vietnam	--	--	--	--	--	74	74	527
Other	--	--	--	--	--	1	1	12
Total	326	37	20	134	72	270	859	8,660
January–September	3,090	1,370	364	951	738	2,140	8,660	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 September 2014 totaled 132 metric tons, tungsten content, to give a January–September total of 1,160 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 4a
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
2013	1,060	1,600	455	901	1,460	5,470	XX
2014:							
May	164	19	41	84	177	485	2,430
June	--	51	36	70	89	246	2,680
July:							
Australia	--	--	--	1	(4)	1	18
Austria	--	--	--	27	5	32	149
Brazil	--	--	1	5	(4)	5	66
Canada	--	--	5	12	26	44	425
Chile	--	--	(4)	(4)	--	(4)	4
China	--	--	(4)	2	2	4	110
Costa Rica	--	--	--	--	1	1	8
Czech Republic	1	--	--	11	(4)	11	66
France	--	--	1	1	--	1	6
Germany	--	56	4	16	(4)	77	471
Hong Kong	--	--	(4)	(4)	--	1	35
Hungary	--	--	--	--	1	1	68
India	--	--	(4)	1	5	6	197
Ireland	--	--	(4)	--	--	(4)	4
Israel	--	--	2	--	(4)	2	24
Italy	--	--	--	1	2	4	16
Japan	--	--	3	3	1	6	62
Korea, Republic of	--	--	--	1	2	2	13
Luxembourg	19	--	1	--	--	19	75
Malaysia	(4)	--	--	2	1	2	4
Mexico	--	--	1	3	13	17	61
Netherlands	--	--	(4)	--	(4)	1	158
Panama	--	--	(4)	--	--	(4)	126
Peru	--	--	1	3	--	4	8
Russia	--	--	--	--	3	3	240
Saudi Arabia	--	--	17	(4)	(4)	17	60
Singapore	--	--	1	4	12	17	112
South Africa	--	--	1	--	(4)	1	10
Switzerland	--	--	--	(4)	(4)	(4)	9
Taiwan	--	--	--	4	(4)	4	37
Thailand	--	--	--	(4)	--	(4)	5
Turkey	--	--	--	(4)	--	(4)	9
United Arab Emirates	--	--	1	1	(4)	1	10
United Kingdom	--	--	2	5	(4)	7	49
Vietnam	28	--	--	--	--	28	269
Other	--	--	1	2	1	3	19
Total	48	56	42	104	76	325	3,000
January–July	738	357	271	640	998	3,000	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 July 2014 totaled 87 metric tons tungsten content, to give a January–July total of 1,040 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 4b
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
2013	1,060	1,600	455	901	1,460	5,470	XX
2014:							
June	--	51	36	70	89	246	2,680
July	48	56	42	104	76	325	3,000
August:							
Australia	--	--	(4)	4	(4)	4	22
Austria	--	--	--	8	5	13	163
Brazil	--	--	10	1	(4)	11	77
Canada	--	--	4	14	34	51	476
Chile	--	--	1	(4)	--	1	5
China	--	--	(4)	(4)	3	3	113
Costa Rica	--	--	--	--	(4)	(4)	8
Czech Republic	--	--	--	--	--	--	66
France	--	--	3	--	(4)	3	10
Germany	--	--	3	13	1	17	488
Hong Kong	--	--	2	1	(4)	3	38
Hungary	--	--	--	--	1	1	69
India	--	--	2	4	5	11	208
Ireland	--	--	1	1	--	2	5
Israel	--	--	--	--	1	1	25
Italy	--	--	--	(4)	--	(4)	17
Japan	--	--	3	2	6	11	73
Korea, Republic of	--	--	(4)	1	4	5	18
Luxembourg	--	--	--	--	--	--	75
Malaysia	--	--	(4)	1	1	2	5
Mexico	--	--	1	1	12	14	75
Netherlands	--	--	(4)	--	--	(4)	158
Panama	--	--	(4)	--	--	(4)	126
Peru	--	--	(4)	--	--	(4)	9
Russia	157	--	--	--	2	158	399
Saudi Arabia	--	--	--	(4)	--	(4)	61
Singapore	--	--	3	6	6	15	127
South Africa	--	--	(4)	2	(4)	3	13
Switzerland	--	--	1	--	--	1	10
Taiwan	--	--	1	1	(4)	2	39
Thailand	--	--	--	--	1	1	6
Turkey	--	--	2	--	--	2	11
United Arab Emirates	--	--	--	(4)	--	(4)	10
United Kingdom	--	--	1	(4)	2	3	52
Vietnam	40	--	--	--	31	71	340
Other	--	--	(4)	3	1	4	24
Total	197	--	38	63	116	415	3,420
January–August	935	357	309	703	1,110	3,420	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 August 2014 totaled 181 metric tons tungsten content, to give a January–August total of 1,220 metric tons, tungsten content.

Source: U.S. Census Bureau.

TABLE 4c
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
2013	1,060	1,600	455	901	1,460	5,470	XX
2014:							
July	48	56	42	104	76	325	3,000
August	197	--	38	63	116	415	3,420
September:							
Australia	--	--	--	4	(4)	5	27
Austria	--	--	--	21	5	26	189
Brazil	--	--	1	1	8	10	87
Canada	1	--	6	10	56	73	549
Chile	--	--	--	(4)	--	(4)	5
China	18	--	(4)	3	1	22	135
Costa Rica	(4)	--	--	--	1	1	9
Czech Republic	--	--	--	8	3	11	77
France	--	--	1	1	--	2	12
Germany	--	88	3	20	5	117	604
Hong Kong	--	--	--	(4)	--	(4)	38
Hungary	--	--	--	--	(4)	(4)	69
India	--	--	(4)	(4)	2	2	211
Ireland	--	--	1	(4)	(4)	2	7
Israel	--	--	(4)	--	(4)	(4)	25
Italy	--	--	--	(4)	1	1	17
Japan	--	--	--	1	4	5	78
Korea, Republic of	--	--	(4)	1	(4)	1	19
Luxembourg	--	--	1	--	--	1	76
Malaysia	--	--	(4)	--	1	1	6
Mexico	--	--	(4)	(4)	10	11	86
Netherlands	--	--	1	--	(4)	1	159
Panama	--	--	(4)	--	--	(4)	127
Peru	--	--	1	(4)	--	1	9
Russia	134	--	--	--	9	144	543
Saudi Arabia	--	--	--	1	--	1	62
Singapore	--	--	1	2	6	9	136
South Africa	--	--	1	2	--	3	16
Switzerland	--	--	--	1	--	1	11
Taiwan	--	--	1	7	(4)	8	48
Thailand	--	--	--	(4)	3	3	10
Turkey	--	--	2	--	--	2	12
United Arab Emirates	--	--	(4)	(4)	(4)	1	11
United Kingdom	--	--	12	3	5	21	73
Vietnam	8	--	--	--	--	8	348
Other	--	--	1	1	1	3	27
Total	162	88	34	90	122	496	3,910
January–September	1,100	445	343	792	1,240	3,910	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 2014 totaled 274 metric tons tungsten content, to give a January–September total of 1,500 metric tons, tungsten content.

Source: U.S. Census Bureau.