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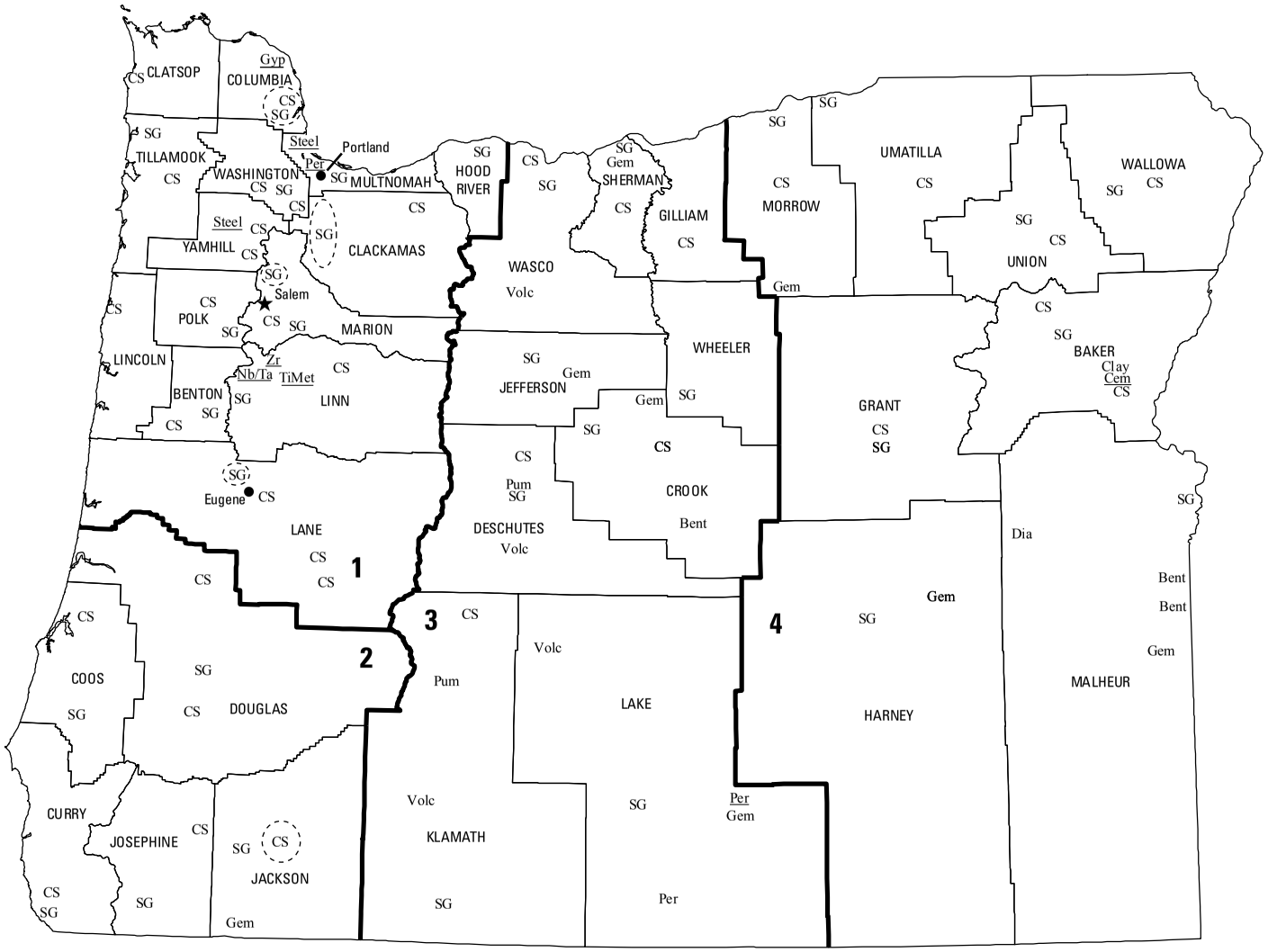
2008 Minerals Yearbook

OREGON

U.S. Department of the Interior
U.S. Geological Survey

July 2012

OREGON



LEGEND

- County boundary
- ★ Capital
- ● City
- 1 Crushed stone/sand and gravel district boundary

MINERAL SYMBOLS
(Principal producing areas)

Bent	Bentonite
Cem	Cement plant and quarry
Clay	Common clay
CS	Crushed stone
Dia	Diatomite
Gyp	Gypsum plant
Gem	Gemstones
Nb/Ta	Niobium (columbium) and tantalum plant
Per	Perlite
Per	Perlite plant
Pum	Pumice and pumicite
SG	Construction sand and gravel
Steel	Steel plant
TiMet	Titanium metal plant
Volc	Volcanic cinder
Zr	Zirconium plant
⬭	Concentration of mineral operations

Source: Oregon Department of Geology and Mineral Industries/U.S. Geological Survey (2008).

THE MINERAL INDUSTRY OF OREGON

This chapter has been prepared under a Memorandum of Understanding between the U.S. Geological Survey and the Oregon Department of Geology and Mineral Industries for collecting information on all nonfuel minerals.

In 2008, Oregon's nonfuel raw mineral production[1] was valued at $398 million, based upon annual U.S. Geological Survey (USGS) data. This was a decrease of $107 million, or just over 21%, from the State's total nonfuel mineral value of $505 million in 2007, which followed a $34 million, or 6.3%, decrease from 2006 to 2007. In spite of these decreases, and while accounting for a smaller percentage of total U.S. production value, the State rose in rank to 35th from 36th among the 50 States in total nonfuel mineral production value from 2007 to 2008.

Oregon continued to produce only industrial minerals and no metals in 2008. Oregon's top five mineral commodities, in descending order of production value, remained unchanged from those of 2007: crushed stone, construction sand and gravel, portland cement, diatomite, and crude perlite. Oregon also continued to produce emery, lime, and pumice and pumicite. Crushed stone and construction sand and gravel continued to account for 73% of Oregon's total nonfuel mineral production value. The top five mineral commodities listed above accounted for almost 98% of the State's total nonfuel raw mineral production value in 2008.

In 2008, significant decreases in the quantities of mineral commodities produced led to the State's overall decrease in nonfuel mineral production value. The largest decreases in value, in descending order, took place in construction sand and gravel, crushed stone, portland cement, and pumice and pumicite. Crushed stone, construction sand and gravel, and portland cement were among the top raw mineral commodities produced in Oregon based on production value alone; however, the production and production values of these commodities decreased significantly from those of 2007 (table 1).

In 2008, Oregon was the only State with reported emery production (actual production data withheld—company proprietary data). The State continued to be second in the quantity of crude perlite produced among the six perlite-producing States, third in the production of diatomite, and fifth in pumice and pumicite. Oregon decreased from second to third for the production of natural gemstones (gemstones based upon production value). The quantity of crude perlite production was up significantly in 2008 and smaller increases were seen in the production of lime and diatomite. The State remained a moderate producer of natural aggregates, including crushed stone and construction sand and gravel, ranking among the top half of producing States.

[1]The terms "nonfuel mineral production" and related "values" encompass variations in meaning, depending upon the mineral products. Production may be measured by mine shipments, mineral commodity sales, or marketable production (including consumption by producers) as is applicable to the individual mineral commodity.

All 2008 USGS mineral production data published in this chapter are those available as of July 2010. All USGS Mineral Industry Surveys and USGS Minerals Yearbook chapters—mineral commodity, State, and country—can be retrieved over the Internet at URL http://minerals.usgs.gov/minerals.

TABLE 1
NONFUEL RAW MINERAL PRODUCTION IN OREGON[1, 2]

(Thousand metric tons and thousand dollars)

Mineral	2006		2007		2008	
	Quantity	Value	Quantity	Value	Quantity	Value
Gemstones, natural	NA	1,860	NA	2,150	NA	1,620
Sand and gravel, construction	23,800	175,000	21,200	163,000	14,800	120,000
Stone, crushed	29,300 r	219,000 r	30,600 r	211,000 r	23,000	171,000
Combine values of cement (portland), clays (bentonite, common), diatomite, emery (2008), lime, perlite (crude), pumice and pumicite, talc [crude (2006)]	XX	143,000	XX	128,000	XX	106,000
Total	XX	539,000 r	XX	505,000 r	XX	398,000

rRevised. NA Not available. XX Not applicable.

[1]Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

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

TABLE 2
OREGON: CRUSHED STONE SOLD OR USED, BY TYPE[1]

Type	2007 Number of quarries	2007 Quantity (thousand metric tons)	2007 Value (thousands)	2008 Number of quarries	2008 Quantity (thousand metric tons)	2008 Value (thousands)
Granite	7	212	$1,540	11	567	$4,340
Traprock	132 r	17,600 r	122,000 r	121	12,000	87,500
Volcanic cinder and scoria	6	445	3,350	4	177	1,220
Miscellaneous stone	77 r	12,300 r	84,900 r	80	10,200	78,000
Total	XX	30,600 r	211,000 r	XX	23,000	171,000

rRevised. XX Not applicable.
[1]Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 3
OREGON: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2008, BY USE[1]

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch):		
Macadam	W	W
Riprap and jetty stone	329	4,000
Filter stone	W	W
Other coarse aggregate	389	3,080
Coarse aggregate, graded:		
Concrete aggregate, coarse	59	478
Bituminous aggregate, coarse	299	3,030
Bituminous surface-treatment aggregate	190	2,480
Railroad ballast	196	1,720
Other graded coarse aggregate	859	5,000
Fine aggregate (-⅜ inch):		
Stone sand, concrete	W	W
Stone sand, bituminous mix or seal	W	W
Screening, undesignated	153	646
Other fine aggregate	543	4,370
Coarse and fine aggregates:		
Graded road base or subbase	4,280	30,000
Unpaved road surfacing	W	W
Terrazzo and exposed aggregate	W	W
Crusher run or fill or waste	551	3,200
Roofing granules	W	W
Other coarse and fine aggregates	2,870	16,100
Other construction materials	253	2,640
Unspecified:[2]		
Reported	4,850	40,100
Estimated	6,200	48,000
Total	23,000	171,000

W Withheld to avoid disclosing company proprietary data; included in "Total."
[1]Data are rounded to no more than three significant digits; may not add to totals shown.
[2]Reported and estimated production without a breakdown by end use.

TABLE 4
OREGON: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2008, BY USE AND DISTRICT[1]

(Thousand metric tons and thousand dollars)

Use	Districts 1 and 2[2]		Districts 3 and 4[2]		Unspecified districts	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch)[3]	574	4,780	W	W	146	817
Coarse aggregate, graded[4]	1,270	9,380	231	2,020	99	1,300
Fine aggregate (-⅜ inch)[5]	659	5,020	W	W	68	225
Coarse and fine aggregates[6]	7,040	45,700	W	W	352	1,600
Other construction materials	51	207	202	2,440	--	--
Unspecified:[7]						
Reported	987	7,510	1,350	8,920	2,520	23,700
Estimated	5,500	42,000	726	5,500	--	--
Total	16,100	115,000	3,740	28,800	3,180	27,600

W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.

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

[2]Districts 1 and 2, and 3 and 4 are combined to avoid disclosing company proprietary data.

[3]Includes filter stone, macadam, riprap and jetty stone, and other coarse aggregates.

[4]Includes bituminous aggregate (coarse), bituminous surface-treatment aggregate, concrete aggregate (coarse), railroad ballast, and other graded coarse aggregates.

[5]Includes screening (undesignated), stone sand (bituminous mix or seal), stone sand (concrete), and other fine aggregates.

[6]Includes crusher run or fill or waste, graded road base or subbase, roofing granules, terrazzo and exposed aggregate, unpaved road surfacing, and other coarse and fine aggregates.

[7]Reported and estimated production without a breakdown by end use.

TABLE 5
OREGON: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2008,
BY MAJOR USE CATEGORY[1]

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate and concrete products	1,920	$20,000	$10.42
Plaster and gunite sands	8	166	20.75
Asphaltic concrete aggregates and other bituminous mixtures	985	8,100	8.22
Road base and coverings	2,300	16,900	7.33
Road stabilization (cement)	9	45	5.00
Fill	292	1,510	5.15
Snow and ice control	6	64	10.67
Railroad ballast	24	167	6.96
Other miscellaneous uses	329	2,310	7.03
Unspecified:[2]			
Reported	5,090	40,000	7.85
Estimated	3,830	30,400	7.96
Total or average	14,800	120,000	8.09

[1]Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.

[2]Reported and estimated production without a breakdown by end use.

TABLE 6
OREGON: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2008,
BY USE AND DISTRICT[1]

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregate and concrete products[2]	927	9,350	381	4,220	422	3,820
Asphaltic concrete aggregates and road base materials[3]	1,620	11,700	840	7,690	401	2,890
Fill	188	1,020	9	40	77	393
Other miscellaneous uses[4]	213	1,630	34	277	108	582
Unspecified:[5]						
Reported	4,810	37,800	192	1,610	19	66
Estimated	2,550	20,700	173	1,400	642	4,640
Total	10,300	82,200	1,630	15,200	1,670	12,400

	District 4		Unspecified districts	
	Quantity	Value	Quantity	Value
Concrete aggregate and concrete products[2]	200	2,800	--	--
Asphaltic concrete aggregates and road base materials[3]	437	2,750	--	--
Fill	18	56	--	--
Other miscellaneous uses[4]	5	55	--	--
Unspecified:[5]				
Reported	59	481	14	30
Estimated	458	3,710	--	--
Total	1,180	9,850	14	30

-- Zero.

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

[2]Includes plaster and gunite sands.

[3]Includes road and other stabilization (cement).

[4]Includes railroad ballast and snow and ice control.

[5]Reported and estimated production without a breakdown by end use.