INTRODUCTION.

The statistics presented in the following report are of especial value on account of the completeness of the canvass in collecting them. A large part of them were obtained by direct visits to the quarrymen, made necessary by the fact that statistics of labor, wages, and expenses required by the Census Office for the mining census, were collected at the same time. This extra work has delayed the publication of the report, but this office wishes to thank the various quarrymen for their cooperation and for the information given to the various agents of this office and of the Census Office.

In 1889-90, at the time of the last mining census, the value of the stone produced in the United States was \$53,035,620. In the census of 1902 the value of the stone produced was \$64,559,099, an increase of \$11,523,479. In the interval the yearly value of the output fluctuated, until in 1896 it decreased to \$31,346,171. Since then the output has steadily increased to its present status.

The stone industry for 1902, though showing a large increase in value of production, has not exhibited an unusual state of activity, not nearly so much so as in the year 1901. This is shown by the fact that though there was a large increase in value of the production for 1902, this increase was not so large as the increase of 1901 over 1900, or of 1900 over 1899.

The check given to the building trade by various builders' strikes all over the country is in part accountable for this, the contractors being unable to use the material contracted for, which material was therefore not taken out. In some places, also, there were strikes among the quarrymen, although this was not general, as the quarrymen themselves are not as a rule union men. The cutters, polishers, and skilled laborers, however, employed to work the stone after it leaves the quarry are usually union men.

The coal strike during 1902 influenced the stone production to some extent, in that some of the large producers were unable to get coal for their engines, and especially were the lime burners affected who depended upon coal as a fuel for their kilns.

The crushed-stone industry, influenced by the demand for good roads and by the use of crushed stone for concrete in masonry, has in

the last six or seven years given a strong impetus to the stone industry as a whole.

In the last year the export trade in stone has been more active than before.

A tendency toward combination has also been more or less felt during the last two or three years, and in several States large interests have combined to control the output of various quarries. This is the case in New York, Pennsylvania, Massachusetts, Minnesota, Wisconsin, Ohio, Indiana, Connecticut, Vermont, and other States.

CLASSIFICATION.

In this report stone is classified, as usual in the trade, under the general headings of granite, sandstone, limestone, slate, and marble.

Under the head of granite are included granite, gneiss, mica-schist, andesite, syenite, and quartz-porphyry, which are used for all purposes for which granite is used, such as building stone, foundation work, monumental stone, paving blocks, curbstone and flagstone, rubble, and crushed stone for riprap, macadam roads, concrete, and railroad ballast. Besides these the following are also included: The diabase, trap rocks, basalts, diorites, and gabbros, quarried extensively in the New England and the Eastern States and in the far West, and used almost entirely for paving or as crushed stone for road metal.

Under sandstone are included all consolidated sands. The value of the stone depends upon the cementing material, quartz grains cemented by silica forming the hardest and most durable stone. The varieties of sandstone are often called by the quarrymen bluestone, freestone, and (when the grains composing the stone are of considerable size) conglomerates. As such they are classed as sandstone in this report. Some bituminous sandstone, quartzites used as refractory material in furnaces, the jasper stone of Minnesota and South Dakota, and the lava stone of Colorado are also included.

Limestone, when in its pure state, consists essentially of amorphous calcium carbonate, often cemented together by crystalline material and containing many impurities. In this report there is included with true limestone not only the calcium carbonate with the usual small amounts of impurities, such as the oxides of iron, aluminum, silica, etc., but stone containing calcium carbonate and magnesium carbonate in varying proportions. When the stone contains a considerable amount of magnesium carbonate it is called magnesium limestone, and when the stone is about equally composed of the carbonate of lime and of magnesia it is called dolomite. The limestones also include travertine, or the limestone deposited by running streams and springs in large compact masses, and fossiliferous, shell, and coral limestones. In composition there is no essential difference between limestone and

what is generally known as marble. Marble is, however, limestone that by action of heat has been transformed into a crystalline form. There is also included with the marble some onyx marble, which in composition is the same as marble, but which is deposited from solution in crystalline form at different intervals, thus giving it a banded appearance and variegated colors. There is also included a small amount of serpentine.

PRODUCTION.

The figures as given in the table which follows do not include values of stone quarried for the following purposes: Sandstone converted into grindstones, whetstones, and other abrasive materials; sandstone quarried and crushed into sand for the manufacture of glass; bituminous limestone and sandstone used in making asphalt pavements and asphalt blocks; limestone used in blast furnaces, although the statistics of the furnace flux are shown under the part of the report treating of limestone; and limestone used in the manufacture of Portland cement.

The statistics of stone used for abrasives is shown in the report on abrasives as published by this office.

In making the statements as to the value of the stone the values given represent as nearly as it was possible to obtain them the value of the stone as it left the hands of the producer exclusive of any shipment values. When the stone was sold by the producer to the manufacturers in the rough state, the value is so given; and when the producer dressed his own stone, the value given is the dressed value. This applies particularly to the rough and the dressed granite, sandstone, and marble used for building and for monumental work.

The total value of the stone reported to this office in 1902, exclusive of the products mentioned above, was \$64,559,099. The value in 1901 was \$55,615,926. This shows a gain in 1902 of \$8,943,173. The corresponding gain in 1901 over 1900, when the figures were \$44,321,345, was \$11,294,581, a larger increase in 1901 than in 1902.

Limestone, not including furnace flux, increased more in value of production than any other kind of stone, the figures for 1902 being \$24,959,751 and for 1901 \$21,747,061, a gain of \$3,212,690 for 1902. The value of limestone used for blast-furnace flux, and not included in the above, increased from \$4,659,836 in 1901 to \$5,271,252 in 1902, a gain of \$611,416.

Granite, including trap rock, increased from \$15,976,961 in 1901 to \$18,257,944 in 1902, or \$2,280,983. The trap-rock production increased from \$1,710,857 in 1901 to \$2,181,157 in 1902, a gain of \$470,300.

Sandstone, including bluestone, but not including grindstones and whetstones, increased from \$8,138,680 in 1901 to \$10,601,171 in 1902, a gain of \$2,462,491. The value of bluestone, included in the above

figures, was practically the same for 1901 and 1902, being \$1,164,481 in 1901 and \$1,163,525 in 1902.

The value of marble production increased slightly in 1902, the figures, however, being practically the same for both years-\$4,965,699 in 1901 and \$5,044,182 in 1902, an increase of \$78,483.

The slate production in 1902 increased in value from \$4,787,525 in 1901 to \$5,696,051 in 1902, a gain of \$908,526.

Value of the different kinds of stone produced in the United States, 1890-1902.

Year.	Granite.	Trap rock.	Marble.	Slate.	Sandstone.	Bluestone.	Limestone.	Total,
1890	\$14, 464, 095		\$3,488,170	\$ 3, 482, 513	\$10,816,057	\$1,689,606	\$19,095,179	\$53, 035, 626
1891	13,867,000		3,610,000	3, 825, 746	8,700,000	a 1, 500, 000	15, 792, 000	47, 294, 746
1892	12,642,000		3, 705, 000	4, 117, 125	8, 315, 500	a1,600,000	18, 342, 000	48, 721, 623
1893	8,808,934		2,411,092	2,523,173	5, 295, 151	a1,000,000	13,947,223	33, 985, 57
1894	10,029,156		3, 199, 585	2,790,324	3, 955, 847	α 900, 000	16, 190, 118	37, 065, 03
1895	8, 894, 328		2, 825, 719	2,698,700	4, 211, 314	a 750, 000	15, 308, 755	34, 688, 81
1896	7, 944, 994		2, 859, 136	2,746,205	4,023,199	a 750, 000	13, 022, 637	31, 346, 17
1897	8, 905, 075		3, 870, 584	3,524,614	4, 065, 445	a 900, 000	14, 804, 933	36, 070, 65
1898	9, 324, 406		3, 629, 940	3, 723, 540	4, 724, 412	a 1,000,000	16,039,056	38, 441, 35
1899	10, 343, 298	\$1,275,041	4,011,681	3,962,733	b 4, 924, 670	815, 284	18,757,963	44, 090, 670
1900	10,969,417	1,706,200	4, 267, 253	4, 240, 466	b 5, 272, 865	1, 198, 519	c16, 666, 625	44, 321, 34
1901	14, 266, 104	1,710,857	4, 965, 699	4, 787, 525	b 6, 974, 199	1, 164, 481	c21, 747, 061	55, 615, 92
1902	16,076,787	2, 131, 157	5,044,182	5,696,051	b 9, 407, 646	1, 163, 525	c24, 959, 751	64, 559, 09

The following tables show the value of stone produced in 1901 and 1902, by States:

Value of various kinds of stone produced in 1901 and 1902, by States.

1901.

State.	Granite.	Sandstone.	Slate.	Marble.	Limestone.	Total value.
Alabama		\$8,680			\$619, 423	\$628, 103
Alaska				\$4,500		4,500
Arizona		202, 500		300	300	203, 100
Arkansas	\$23,554	62, 825		300	68, 319	154, 998
California	a 1, 134, 675	301,028	\$18,608	6,642	645, 455	2, 106, 408
Colorado	138, 996	237, 331			245, 799	622, 126
Connecticut	a 616, 654	146, 814			140, 424	903, 892
Delaware	671, 204			,		671, 204
Florida					51,870	51,870
Georgia	761,646		3,000	936, 549	85, 629	1, 786, 824
Idaho	5,100	20,843			21, 251	47,194
Illinois		12,884			2,793,837	2, 806, 721
Indiana		28,334			2, 993, 186	3, 028, 145
Indian Territory	(b)					(b)
Iowa		14, 341			777, 484	791, 825
Kansas	c 48, 530	49,901			478, 986	577, 417

aIncludes trap rock.

a Estimated. b Does not include value of grindstones and whetstones. c Does not include value of limestone for flux.

b Included with Kansas.

c Includes Indian Territory.

Value of various kinds of stone produced in 1901 and 1902, by States—Continued.

1901—Continued,

State.	Granite.	Sandstone.	Slate.	Marble.	Limestone.	Total value.
Kentucky		\$108,259			\$199,567	\$307,826
Maine	\$2,703,116		\$202,325		715, 272	3,620,713
Maryland	613, 356	4,546	105, 798	\$68,100	382, 381	1, 174, 181
Massachusetts	a 2, 216, 258	147, 428	200,100	126,546	244,039	2, 834, 153
Michigan	2,706	290, 578		,	565, 931	859, 215
Minnesota	260, 105	246, 685	1,400		522,778	1,030,968
Missouri	95, 806	42, 170	1,100	2,100	1, 362, 272	1,502,348
Montana	15, 200	58, 439		1,500	143, 866	221, 285
Nebraska	10, 200	515		2,000	154,717	155, 232
Nevada	4,100	010			202,121	4, 100
New Hampshire	935, 494					935, 494
New Jersey	a 894, 167	244, 512	30,000		309,738	1, 478, 417
New Mexico	4-051, 101	241,012	50,000	10,600	000,100	10,600
New York	a 489, 828	b 1, 331, 327	100,960	379, 159	1,738,716	4, 039, 990
North Carolina	261, 288	11,682	100,000	070,200	8, 266	281, 236
Ohio	201, 200	1,999,180			2, 606, 502	5, 183, 225
Oklahoma Territory		1,000,100			32, 497	32, 497
Oregon	10,754	531		500	24, 520	36, 305
Pennsylvania	a 486, 008	b 2, 063, 082	2, 984, 264	157, 547	5, 081, 387	10,772,288
Rhode Island	501, 698	02,000,002	2, 504, 201	101,011	38,030	539, 728
South Carolina	996, 084		***********		28,500	1,024,584
South Dakota	99, 941	17,647			53,780	171, 368
	99, 941	10,342		494, 637	330, 927	835, 906
Tennessee	27,005	111, 568		131,001	209, 658	348, 231
Texas	5,588	38, 919	*********	320	78,900	123, 727
Utah		50, 515	1, 162, 191	2, 753, 583	205, 138	5, 366, 740
Vermont	1, 245, 828 275, 701		178, 979	2, 100, 000	539, 128	1,446,160
Virginia	43,808	5, 303	110, 313	22,816	234, 587	390, 385
Washington	40,000	89, 174		22,010	447, 049	106,710
West Virginia	389, 953	103, 010 90, 425			1,225,448	1, 705, 826
Wisconsin		170(1)			1,340	58, 295
Wyoming	2,810	54, 145			1,540	00, 200
Total	a 15, 976, 961	b 8, 138, 680	4, 787, 525	4, 965, 699	c 26,406, 897	60, 982, 060
		190	2.			
Alabama		\$42,706		(d)	\$759,617	\$802,323
Arizona	\$3,000	107,910				110, 910
Arkansas	12, 115	85, 917	(e)	(d)	113, 163	211, 195
California	a 1, 137, 679	462, 328	(e)	\$92,298	496, 843	2, 189, 148
Colorado	66, 023	366, 161			203,700	635, 884
Connecticut	a 812, 141	128,579		(d)	205, 371	1, 146, 091
Delaware	276, 753					276, 753
Florida					63,571	63,571
Georgia	803, 778	1,250	(e)	660, 517	111,589	1,577,134
Hawaii		6,688				6,688
Idaho	940	13,777			15,074	29, 791
Illinois		32, 200			3, 222, 608	3, 254, 808
Indiana		37, 593			2, 865, 691	2, 903, 284
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Indian Territory.....

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a Includes trap rock.
b Includes bluestone.
c Includes blast-furnace flux
d Includes Alabama, Arkansas, Connecticut, Iowa, Maryland, Montana, New Mexico, and Utah.
c Included in other States.

Value of various kinds of stone produced in 1901 and 1902, by States-Continued. 1902-Continued.

State.	Granite.	Sandstone.	Slate.	Marble.	Limestone.	Total value.
Iowa		\$15,061		(b)	\$649,984	\$665,045
Kansas		105, 509			670,536	776, 045
Kentucky		128,470			593,747	722, 217
Maine	\$2,659,450		\$206, 558		745, 132	3, 611, 140
Maryland	758, 203	15,405	118,084	(b)	453,030	1, 344, 722
Massachusetts	a 3, 451, 397	487,366		\$165,489	339, 349	4, 443, 601
Michigan		188,073			621, 380	809, 453
Minnesota	478, 989	347, 472			830, 857	1,657,318
Missouri	157,708	56,990			1,697,139	1, 911, 837
Montana	77,050	85,152		(b)	104,725	266, 927
Nebraska		168			145, 478	145, 641
Nevada	2,090	6,115			2,800	11,005
New Hampshire	1,147,097					1,147,097
New Jersey	a 948, 474	406,726	(0)		181,650	1,536,850
New Mexico		12, 291		(b)		12, 291
New York	a 651, 014	d 1, 408, 699	126,718	577, 298	2, 419, 121	5, 182, 850
North Carolina	338,750	4,825			23, 153	366, 728
Ohio		2, 078, 754			3, 201, 718	5, 280, 472
Oklahoma		24, 200			50, 541	74, 741
Oregon	38, 429	1,109			20, 133	59, 671
Pennsylvania	a 661, 062	d2,800,108	3,547,322	160, 423	5, 420, 287	12,589,202
Rhode Island	734, 623				33, 814	768, 437
South Carolina	598, 848				37,850	636, 698
South Dakota		110,789			86,605	197, 394
Tennessee		7,670		518, 256	482,033	1,007,959
Texas	60,003	165, 565			228, 662	454, 230
Utah	1,479	105,011		(b)	186, 663	293, 153
Vermont	1,570,428		1, 464, 918	2,628,164	225, 703	5, 889, 208
Virginia	282,046	2,500	160,951		534, 113	979, 610
Washington	147,273	30,725		61, 176	213, 814	452, 988
West Virginia		423, 532			616, 366	1,039,898
Wisconsin	369, 137	207,086			1,351,058	1, 927, 281
Wyoming		90,691			6, 340	97, 031
Other States			e 71,500	e 180, 561		252,061
Total	a 18, 257, 944	d10,601,171	5 606 051	65 OM 190	620 021 062	£00 000 051
10001	4 18, 201, 944	410, 001, 171	5,696,051	05,044,182	f30, 231, 003	f 69, 830, 351

a Includes trap rock. b Includes Alabama, Arkansas, Connecticut, Iowa, Maryland, Montana, New Mexico, and Utah. c Included in other States. a Includes bluestone. c Includes Arkansas, California, Georgia, and New Jersey. f Includes blast-furnace flux.

From the table for 1902 it will be seen that Pennsylvania, producing every kind of stone, ranks first in the total valuation of the stone produced. Vermont is second in rank; and Ohio, producing, however, only limestone and sandstone, is third. New York is fourth, followed by Massachusetts, Maine, Illinois, Indiana, and California, in the order named. Each of these States has a product of over \$2,000,000. The drop from the value of the Pennsylvania product to the value of the Vermont product, the second State, is noticeable. Pennsylvania's

entire stone product is valued at \$12,589,202, and Vermont's product at \$5,889,208.

In 1901 the rank of the States was Pennsylvania, Vermont, Ohio, New York, Maine, Indiana, Massachusetts, Illinois, and California.

The following table is given to show the total values of the stone used for various purposes in 1901 and 1902. Only those values are given which are for uses common to two or more varieties of stone.

Value of granite, sandstone, limestone, and marble used for various purposes in 1901 and 1902.

1901.

Kind.	Building (rough and dressed).	Monument- al (rough and dressed).	Flagstone and curb- stone.	Paving.	Crushed stone.
Granite Sandstone Limestone Marble	\$5,660,129 4,875,973 5,219,310 1,080,969	\$2,715,225 2,019,474	\$670,703 1,663,221 463,925	\$1, 821, 431 358, 910	\$3, 003, 443 285, 347 5, 271, 642
Total	16, 836, 381	4, 734, 699	2,797,849	2, 180, 341	8, 560, 432
	1902.				No. of the last
Granite Sandstone Limestone Marble	\$7,034,832 6,007,484 5,563,084 2,184,941	\$3,998,911 1,942,674	\$876, 726 1, 815, 353 573, 656	1, 523, 776 527, 617	\$3, 211, 780 1, 116, 449 7, 152, 730
Total	20, 790, 341	5, 941, 585	3, 265, 735	2, 051, 393	11, 480, 959

This table is of interest as showing the total value of stone that went for different purposes. The stone used for building showed an increase of \$3,953,960 in 1902, the figures for 1901 being \$16,836,381, and for 1902, \$20,790,341. In 1901 the increase in value was from \$10,672,598 in 1900 to \$15,112,600 in 1901, or \$4,440,002, a larger increase for 1901 than for 1902.

The stone for monumental use was valued at \$5,941,585 in 1902, and at \$4,734,699 in 1901, an increase of \$1,206,886. In 1901 this value decreased slightly as compared with 1900. This does not include any limestone or sandstone, a small amount of which was used for this purpose.

Flagstone and curbstone increased from \$2,797,849 in 1901 to \$3,265,735 in 1902, or \$467,886, and the value of paving stone decreased from \$2,180,341 in 1901 to \$2,051,393 in 1902, or \$128,948.

Crushed stone increased in value from \$8,560,432 in 1901 to \$11,480,959 in 1902, a gain of \$2,920,527.

As the crushed-stone industry has become such a decided factor in the quarry trade, the following table is given, showing the production of crushed stone in 1901 and 1902 according to the variety of stone, and showing also the purpose for which this stone was used:

Value of crushed stone in the United States in 1901 and 1902. 1901.

Kind.	Railroad ballast.	Road making.	Concrete.	Total value.
Sandstone	\$1,758,541 30,887	\$2, 298, 286 130, 503	\$1, 214, 815 123, 957	\$5, 271, 642 285, 347
Granite	516, 768 2, 306, 196	2, 008, 966 4, 437, 755	1,816,481	3, 003, 448 8, 560, 432

1902.							
Limestone	\$2,661,081	\$2,890,985	\$1,600,664	\$7, 152, 730			
Sandstone	347, 869	442, 113	326, 467	1,116,449			
Granite	574, 780	1, 902, 439	734, 561	3, 211, 780			
Total	3, 583, 730	5, 235, 537	2, 661, 692	11, 480, 959			

In the following tables is shown the total value of the crushed stone produced in the United States in 1901 and 1902, by States.

Value of crushed stone produced in the United States in 1901 and 1902, by States. 1901.

State,	Granite.	Limestone.	Sandstone.	Total value.
Alabama		\$2,500		\$2,500
Arkansas	\$5,877	1,000	\$36, 204	43, 081
California	375,941	211, 148	24,000	611, 089
Colorado	2,190	100	15, 500	17,790
Connecticut	216, 306			216, 300
Delaware	87, 263			87, 26
Florida		6,420		6, 420
Georgia	98, 170	13,581		111,75
Idaho		25		2
Illinois		1,155,746	20	1, 155, 76
Indiana		225,740		225, 74
Indian Territory	450			45
Iowa		183,902	275	184, 17
Kansas	37, 333	137, 283	450	175,06
Kentucky		99, 415		99, 41
Maine	90, 499			90, 49
Maryland	101, 458	53,663		155, 12
Massachusetts	191,823	150	65, 400	257, 37
Michigan	2,706	125, 448		128, 15
Minnesota	2,085	20, 268	9,515	31, 86
Missouri	27,862	295, 470	2, 896	326, 22
Montana			2,300	2,30
Nebraska		67,309		67,30
New Hampshire	25, 223			25, 22
New Jersey	721, 126	1,925	831	723, 88
New York	320,610	627, 884	18,715	967, 20
North Carolina	85,083	4,668		89,75
Ohio		853, 886	15,005	868, 89
Oklahoma		24,534		04.50

Value of crushed stone produced in the United States in 1901 and 1902, by States—Cont'd. 1901—Continued.

State.	Granite.	Limestone.	Sandstone.	Total value.
Oregon		\$12,100	\$49	\$12,149
Pennsylvania	\$369,078	746, 895	56, 942	1, 172, 915
Rhode Island	6,676			6,676
South Carolina	79,091	1,000		80,091
South Dakota	3,000	2,000		3,000
	3,000	42, 120	50	42, 170
Γennessee	***********	9, 250	10,000	19, 250
rexas		1000		29
Utah	0.107	23		
Vermont	2,107	610		2,717
Virginia	60,008	77,985	0.40	137, 998
Washington	9,868	840	240	10, 948
West Virginia			1,730	1,730
Wisconsin	81,610	268, 729	1,519	351, 850
Wyoming		25	23,706	23, 73
Total	3,003,443	5, 271, 642	285, 347	8, 560, 433
190	2.			
Alabama		\$12,890	\$200	\$13,09
Arkansas	\$11,000	22,510	44,746	78, 25
California	266, 103	26,900	187,750	480,75
Colorado	3,750		71,008	74, 75
Connecticut	295, 063			295,06
Delaware	109,462			109, 46
Florida	100,102	11,008		11,00
	43,910	12,310		56, 22
Georgia	40, 310	12, 510	6,688	6,68
Hawaii	************	1,220,772	25	1, 220, 79
Illinois			1,000	
Indiana	000	274, 491	1,000	275, 49
Indian Territory	320	450 050	Front	
Iowa	***********	153, 372	785	154, 15
Kansas		383, 904	42,050	425, 95
Kentucky		327, 217	55,000	382, 21
Maine				9, 94
Maryland	155, 761	95, 966	5, 965	257, 69
Massachusetts	427,035	1,093	296, 529	724, 65
Michigan		146, 501		146,50
Minnesota	15,660	128, 244	21,099	165,00
Missouri	. 38,044	502,741	1,350	542, 13
Montana			. 750	78
Nebraska		52,742	43	52,78
New Hampshire	26,550			. 26,58
New Jersey	753,005	580	30,930	784, 51
New York	318,003	1,084,594	59,552	1, 462, 14
North Carolina	67,196	21,063		. 88, 25
Ohio	21,200	951,751	8,304	960,00
Oklahoma		9,000		
	. 14,150	the sale of the sale	. 228	
Oregon	(10 at 10 at			
Pennsylvania		10	113, 505	. 15,4
Rhode Island		Children and the second		60,5
South Carolina	. 60, 233			700
South Dakota		9,600		
Tennessee	- The second second second		1012 (2011)	70,7
Texas		. 18, 992	42,207	61, 2

Value of crushed stone produced in the	United States in 1901 and 1902, by States—Cont'd.
19	OO2—Continued.

State.	Granite.	Limestone.	Sandstone.	Total value.
Utah		\$400		\$400
Vermont	\$6,373	1,387		7,760
Virginia	78, 275	19,455		97, 730
Washington	22, 974			22, 974
West Virginia		157, 351	\$25,041	182, 392
Wisconsin	86,785	285, 477	764	373, 026
Wyoming			34, 162	34, 162
Total	3, 211, 780	7, 152, 730	1, 116, 449	11, 480, 959

The division of this product, according to the uses to which the stone was put, is shown in the table giving the values of the different varieties of stone by States and uses.

IMPORTS AND EXPORTS.

The figures following, giving statistics of the imports and exports of stone for the United States, are taken from data collected by the Bureau of Statistics of the Department of Commerce and Labor. These statistics are collected by fiscal years, and when the figures for a special year are given in this report, the year ending June 30 of the year mentioned is meant.

The value of the stone imported into this country for the fiscal year ending June 30, 1902, was \$1,641,388. The corresponding figures for previous years were \$1,276,602 for 1901, \$1,028,550 for 1900, \$883,852 for 1899. This shows an increase of \$144,698 in 1900; \$248,052 in 1901, and \$364,786 in 1902.

These values include rough and manufactured marble to the amount of \$680,533 in 1899, \$812,606 in 1900, \$1,024,687 in 1901, and in 1902 \$1,408,885. This shows an increase of \$132,073 in 1900, \$212,081 in 1901, and \$384,168 in 1902. The largest feature of the marble importation was rough and manufactured marble from Italy, which was valued at \$573,871 in 1899, \$665,221 in 1900, \$823,488 in 1901, and \$1,127,688 in 1902. This shows an increase of \$91,350 in 1900, \$158,267 in 1901, and \$304,200 in 1902, a notable increase in the last year. The other countries exporting to this country any considerable amount of marble are in order of importance, France, Mexico, Greece, United Kingdom, Belgium, Germany, and Denmark.

The rest of the stone, rough and manufactured, including slate imported to this country was valued at \$203,319 in 1899, \$215,944 in 1900, \$251,915 in 1901, and \$232,533 in 1902.

Besides the above, there was imported, chiefly from the Dominion of Canada, lime valued at \$58,066 in 1899, \$63,900 in 1900, \$65,399 in 1901, and \$91,785 in 1902.

The total value of the stone exported from the United States in 1902 was \$1,716,696. In comparison with exports in previous years, valued at \$1,886,756 in 1899, \$1,677,169 in 1900, and \$1,638,314 in 1901, there was a decrease of \$209,587 in 1900, a decrease of \$38,855 in 1901, and an increase of \$78,382 in 1902, as compared with the previous years.

Roofing slate is the largest factor of the exported stone, and amounted in value to \$1,363,617 in 1899, \$950,543 in 1900, \$898,262 in 1901, and \$945,352 in 1902. This shows a decrease of \$413,074 in 1902, a decrease of \$52,281 in 1901, and an increase of \$47,090 in 1900. The value of other manufactured stone exported in 1902 was \$644,071. In comparison with exports, valued at \$454,236 in 1899, \$606,229 in 1900, and \$646,332 in 1901, there was an increase of \$151,993 in 1900, an increase of \$40,103 in 1901, and a decrease of \$2,261 in 1902.

The unmanufactured stone exported was valued at \$172,273 in 1902, as compared with \$68,903 in 1899, \$120,397 in 1900, and \$93,720 in 1901. Most of the unmanufactured product is sent to the Dominion of Canada and the United Kingdom, the same being true of the manufactured product; but considerable quantities of unmanufactured were also shipped to Germany, Cuba, British Australasia, France, Mexico, Belgium, and the British West Indies, named in order of importance.

In addition to the stone, lime valued at \$39,447 was exported in 1902 chiefly to the Dominion of Canada. The value of the lime exported in previous years is given as \$73,385 in 1899, \$81,647 in 1900, and \$30,216 in 1901.

GRANITE.

The value of granite, including gneiss, mica-schist, lava, andesite, syenite, quartz-porphyry, trap rock, basalt, and allied igneous rocks, quarried in the United States in 1902 was \$18,257,944. This, in comparison with the value of this stone produced in 1901, \$15,976,961, shows an increase of \$2,280,983. The increase in value of the stone quarried in 1901, \$15,976,961, over that quarried in 1900, \$12,675,617, was \$3,301,344, which shows that the increase for the year 1902, although considerable, did not equal the increase for 1901; and the increase in the value for 1900 as compared with 1899 was \$1,057,278.

In 1902 Massachusetts still held first place in the production of granite in the United States. Maine, Vermont, New Hampshire, and California followed in the order named.

In 1902 Maine showed the largest value for building stone, with Massachusetts second and New Hampshire third. Vermont showed the largest value for monumental stone, with Massachusetts second and Rhode Island third. The largest value for paving blocks was from Massachusetts followed closely by Maine, and third, by Georgia. The value of crushed stone was largest in New Jersey, Massachusetts, and California following.

The greatest increase was in the value of stone used for building purposes. In 1901 the value of this product, including dressed and rough stone sold by the quarrymen was \$5,660,129. In 1902 the value of this product was \$7,034,832, a gain of \$1,374,703. The rough building stone increased from a value of \$1,878,835 in 1901, to \$2,175,082 in 1902, a gain of \$296,247. The stone quarried and dressed by the producer for building purposes increased from \$3,781,294 in 1901 to \$4,859,750 in 1902, a gain of \$1,078,456.

The stone sold for monumental work in 1902, including the rough stock sold by the quarrymen for this purpose and the stone quarried and dressed for this purpose by the quarrymen was \$3,998,911. In 1901 this value was \$2,715,225, a gain of \$1,283,686. The rough monumental stock was valued at \$1,714,156 in 1902, and \$1,257,668 in 1901, an increase for 1902 of \$456,488. The dressed stone was valued at \$2,284,755 in 1902 and \$1,457,557 in 1901, an increase for 1902 of \$827,198.

The value of the paving blocks decreased from a value of \$1,821,431 in 1901, to a value of \$1,523,776 in 1902, a decrease of \$297,655.

The crushed stone increased from a value of \$3,003,443 in 1901 to a value of \$3,211,780 in 1902, an increase of \$208,337.

The following tables give the value of the granite produced in the United States in 1901 and 1902, by States and uses:

Value of granite produced in the United States in 1901 and 1902, by States and uses.

1901.

	Sold in the rough.			Dressed for	Dressed for	Made into
State.	Building.	Monumen- tal.	Other.	building.	monumen- tal work.	paving blocks.
Arkansas						\$2,627
California	\$24,057	\$38,755	\$6,815	\$358,832	\$72,257	46,300
Colorado	45,650	7,562		60,835	1,787	5,750
Connecticut	108,959	26, 267	24, 384	94, 611	70,894	29,533
Delaware	9,069		2,678	1,750	400	32, 191
Georgia	54, 321	22, 315	2,725	57,207	14,526	328,087
Idaho	100	5,000				
Indian Territory	} 2,840			7,800		
Maine	407, 418	24, 475	27, 447	1,501,797	76,276	401, 189
Maryland	181,608	20, 180	1,500	188,568	7,800	51,637
Massachusetts	333, 047	236, 327	118,567	455, 535	236, 273	364, 721
Michigan						
Minnesota	13, 215	42, 197	1,550	55,017	96,902	20,002
Missouri	550	17, 406	2,095			40,651
Montana	}			15,600	3,500	
New Hampshire	156, 832	52, 231	9,797	363, 957	171, 239	112,581
New Jersey	60,905	2,515		19,888		87,933
New York	24, 312	1, 325	6,150	97,350	6,283	33,025
North Carolina	27, 464	4, 105	2,212	68, 975	6,813	10,862
Oregon	3,748	250	1,590	3,900	1,116	
Pennsylvania	63, 568	1,050	4,538	18,916	227	15, 712

Value of granite produced in the United States in 1901 and 1902, by States and uses— Continued.

1901—Continued.

	œh.					
State.	501	d in the rou	B11.	Dressed for	Dressed for monumen-	Made into
state.	Building.	Monumen- tal.	Other,	building.	tal work.	paving blocks.
Rhode Island	\$9,722	\$92,974	\$110	\$160,190	\$198,831	\$27,666
South Carolina	56, 831	23, 433	5,730	165, 594	12,789	8,276
South Dakota	25, 106	20, 200	2,159	1,650	15,700	52,089
Texas	2,652	11,521	2,100	243	10,400	02,000
Utah	2, 288	3,300		2.10	10, 100	
Vermont	208, 825	534, 755	101,779	16,343	354, 563	16,304
Virginia	40, 763	8,300	230	45,737	52, 404	17, 253
Washington	9, 100	2, 250		3,000	02, 101	3,360
Wisconsin	3,575	79,175	28,015	17,999	62, 277	113, 682
Wyoming	2,810			,		
Total	1, 878, 835	1, 257, 668	350,071	3, 781, 294	1, 457, 557	1,821,431
	Curbing	C	rushed ston	e.	Riprap,	
State.	and flag- ging.	Railroad ballast.	Road mak- ing.	Concrete.	rubble, etc.	Total.
Arkansas	\$12,496		\$3,500	\$2,377	\$2,554	\$23,554
California	22, 200	\$62,103	110, 871	202, 967	189, 518	1, 134, 675
Colorado	397	902, 103	750	1, 440	14, 825	138, 996
Connecticut	14, 358		213, 672	2, 634	31, 342	616, 654
Delaware	2, 853	a 87, 263	210,072	2,001	535,000	671, 204
Georgia	155, 920	25, 700	35, 545	36, 925	28, 375	761, 646
Idaho	100, 520	20, 100	00,010	00,020	20,010	5, 100
Indian Territory				10000	272	1000
Kansas	62	37, 333		450	545	48, 530
Maine	124, 535	25, 325	59,714	5, 460	49, 480	2, 703, 116
Maryland	42,045	13,092	37, 962	50, 404	18,560	613, 356
Massachusetts	146, 325	5, 455	135,775	50,593	133,640	2, 216, 258
Michigan	210,020	0, 200	2,706	00,000	200,020	2,706
Minnesota	18, 155	40	1,025	1,020	10,982	260, 105
Missouri	3,142		27,862		4,100	95, 806
Montana					7.55	
Nevada	} 200		***********			19, 300
New Hampshire	28,708	3, 615	7,140	14, 468	14, 926	935, 494
New Jersey		43, 500	677, 176	450	1,800	894, 167
New York	773	40,000	262, 410	18, 200		489, 828
North Carolina	51,733	64,660	17, 223	3, 200	4,041	261, 288
Oregon	150					10,754
Pennsylvania	7, 611	48, 686	294, 986	25, 406	5, 308	486,008
Rhode Island	2,456		5,676	1,000	8,073	501,698
South Carolina	2,723	46,835	21,806	10,450	641, 617	996, 084
South Dakota	795			3,000	15,142	99, 941
Texas	2, 189					27,005
Utah						5,588
Vermont	10,400	400	1,707		752	1, 245, 828
Virginia	7,977	7,841	9,850	42, 317	43,029	275, 701
Washington	9,000	4,920		4,948	7,230	43,808
Wisconsin	3,500		81,610		120	389, 953
Wyoming						2,810
Total	670,703	516, 768	2,008,966	477, 709	1,755,959	15, 976, 961

a Includes roadmaking.

Georgia.....

Idaho.....

Indian Territory
Maine

Maryland.....

Massachusetts.....

Minnesota....

Missouri.....

26,741

8,070

74,522

278,656

12,635

10, 122

90

26, 535

50, 795

1,525

18, 803

7,047

320

1,784

54,704

97,584

1,500

50,870

1,400

6,318

9,055

6,605

224, 187

19, 241

13,077

2,250

26,460

1,200

3,451

21,441

11,172

16,790

4,892

5,435

803,778

12,910

2, 659, 450

3, 451, 397

758, 203

478,989

157,708

Value of granite produced in the United States in 1901 and 1902, by States and uses— Continued.

1902.

								1				
	Sold	in the rou	ıgh.	Dresse	od.	Dress		Mas				
State.	Building.	Monu- mental.	Other.	for building		for m umen wor	ital	into j	gr	Curbin		lag- ng.
Arkansas	100000000000000000000000000000000000000	\$215		. \$6	00		000			\$7	5	
California	230, 988	34,992	\$8,455	133,5	74	43,		\$144.	160	28, 20	5	\$495
Colorado		8,770	40,400	1,8	SVRID		513		100	20, 20		MICKELL
Connecticut		28, 862	3,929	200, 2		66,		34.	579	23,08	0	371
Delaware	20, 640		4,593	2,4	07			1	675	4,70		
Georgia	30, 159	45,814	12,330	99,2	13	18,	565	151,		317, 16		2, 533
IdahoIndian Territory	840			7,7	00	1,	800			85		
Maine	485, 217	52, 836	12,720	1, 435, 8	03	155,	305	354,	530	112, 29	0 10	0, 238
Maryland	The second second	15,825	4, 150	323, 2		17,		30,		35, 95	313 2 2000	7, 301
Massachusetts		412, 172	123, 399	965, 3	42	381,	872	358,	398	111,18	4 15	5, 614
Minnesota	The second secon	80,656	2,700	181,0	189	154,	825	3,	280	15, 34	0	480
Missouri		27,051		29,2	83	2,	185	42,	359	6,90	0	
Montana	16,600	100		16,0	00		250		****	30	0	
Nevada					50		800			14	34 0000	
New Hampshire		57, 335	8,564	471,3	250	289,	400	101,		22, 32	8	340
New Jersey		2,940	450	43,70	22.2			72,				
North Carolina	1	1,500 820	975 1,250	175, 90		1000	180		562	82	37.	640
Oregon		2,750	1,000	131,55	200	200	804		986 400	79, 33	2 3	3, 283 375
Pennsylvania	121,198	1,650	525	78,6		- 50	150	44,	7000	6, 79	0	010
Rhode Island	18,798	111,752	750	120,70	322	438,		14,	111100	5, 47	Section 1	160
South Carolina	The second second	20,986	333,728	71,00		24, 2			547	7, 05		500
Texas	10, 345	17, 135		10000	158	29,0				.,, 0.0		
Utah	495	534					450					
Vermont	28,845	756,007	23,896	289, 50	67	453,	187	2,	855	5, 77	0	
Virginia	21, 158	12,500		28,8	40	51,6	612	14,	845	29, 79	5	550
Washington		4,304		12,08	57	11,9	953	5,	000	10, 27	3	
Wisconsin	1,460	16,650	500	30, 9	53	118,0	009	114,	280			
Other States												
Total	2,175,082	1,714,156	543, 914	4, 859, 78	50	2, 284, 7	755	1,523,	776	823, 84	5 52	2, 880
		Crushed s	tone.									
State.	Road mak	- Railroa ballast		crete.	Rul	bble.	Ri	prap.	OI	her.	Tota	1.
Arkansas	\$9,000	\$2,0	00			\$175					\$12	2, 115
Arizona											3	3,000
California	135,842		61 \$1	16,400	2	4,635	\$4	8,099	\$17	4,118	1,137	,679
Colorado	3,750					2,438					66	,023
Connecticut	238, 261	2,2		54, 552		8, 468		2,426		400		,141
Delaware	41, 237	57, 2		7,047		1,066	6	3,300	0.	909		, 753

Value of granite produced in the United States in 1901 and 1902, by States and uses— Continued.

1902-Continued.

	C.	rushed ston	e.					
State.	Road mak- ing.	Railroad ballast.	Concrete.	Rubble.	Riprap.	Other.	Total.	
Montana					\$43,800		\$77,050 2,090	
New Hampshire	\$16,788	\$1,750	\$8,012	\$810	17,056	\$3,250	1, 147, 097	
New Jersey	578, 424	59,546	115,035	700	4,330		948, 474	
New York	193, 435	30,126	94, 442	6,874	1,000		651,014	
North Carolina	4,910	54,080	8, 206	6,888	3,676	2,500	338,750	
Oregon	11,500	1,550	1,100	1,550	813		38, 429	
Pennsylvania	140, 166	188, 129	58, 479	16,769	3,488	320	661,062	
Rhode Island	12,808	42	2,560	2,974	621	4,289	734, 623	
South Carolina	650	23,510	36,073	5,585		340	598, 848	
Texas							60,003	
Utah							1,479	
Vermont	3,348	3,025		2,000	108	1,815	1,570,423	
Virginia	6, 133	25, 554	- 46,588	26,255	17, 215	1,000	282, 046	
Washington		22, 974		34, 054	36, 788		147, 273	
Wisconsin	86,760	25		500			369, 137	
Total	1, 902, 439	574, 780	784, 561	500, 176	319, 158	248,671	18, 257, 944	

The following table shows the value of the production of granite in the United States from 1898 to 1902, inclusive:

Value of granite produced in the United States, 1898-1902.

State.	1898.	1899.	1900.	1901.	1902.
Arkansas		\$39,470	\$62,500	\$23,554	\$12,115
Arizona					3,000
California	\$247,429	471,665	738, 993	1, 134, 675	1, 137, 679
Colorado	25,923	78, 261	143, 054	138, 996	66, 023
Connecticut	682, 768	516, 886	507, 754	616, 654	812, 141
Delaware	677, 754	1,039,349	608, 028	671, 204	276, 758
Georgia	339, 311	411,344	380, 434	761,646	803,778
Idaho			2, 450	5, 100	12,910
Indian Territory			30,000	48,530	
Maine	1,032,621	1,321,082	1,568,573	2,703,116	2,659,450
Maryland	317, 258	423, 823	486, 822	613, 356	758, 203
Massachusetts	1,650,508	1,798,294	1,698,605	2, 216, 258	3, 451, 397
Michigan			- 3,957	2,706	
Minnesota	79, 309	159, 459	221, 684	260, 105	478, 989
Missouri	78, 423	151,688	139, 103	95, 806	157, 708
Montana	}	9,950	9,091	19,300	77,050
	683, 595	802, 636	870,646	935, 494	1,147,09
New Hampshire		779,822	1,170,555	894, 167	948, 47
New Jersey	753, 513			0.00	651,01
New York	516, 847	306,711	446, 171	489, 828	
North Carolina	79, 969	225, 544	257, 962	261, 288	338, 750
Oregon		3,012	5,313	10,754	38, 429

Value of granite produced in the United States, 1898-1902-Continued.

State.	1898.	1899.	1900.	1901.	1902,
Pennsylvania	\$237, 780	\$385,101	\$396, 271	\$486,008	\$661,062
Rhode Island	320, 242	400, 128	444, 316	501,698	734, 623
South Carolina	169, 518	361,034	500, 802	996, 084	598, 848
South Dakota	17,443	91,049	114, 115	99, 941	(a)
Texas	4,685	84, 945	76,069	27,005	60,003
Utah	3, 545	4,735	2,170	5, 588	1,479
Vermont	1,084,218	1, 212, 967	1, 113, 788	1, 245, 828	1,570,423
Virginia	136, 180	223, 380	211,080	275, 701	282, 046
Washington	9,700	42,766	48,900	43, 808	147, 278
Wisconsin	175, 867	270, 538	407, 711	389, 953	369, 137
Wyoming		2,700	8,700	2,810	
Total	9, 324, 406	11, 618, 339	12, 675, 617	15, 976, 961	18, 257, 944

a Value of quartzite included in sandstone for 1902.

The following tables show the value of the trap rock produced in the United States in 1901 and 1902, by States and uses:

Value of trap rock produced in the United States in 1901 and 1902, by States and uses.

1901.

State.	Sold in rough.	Made into paying blocks.	Crushed for roads or ballast.	Other purposes.	Total,
California		\$1,250	\$121, 120	\$4,627	\$126,997
Connecticut		193	202,006	11,784	213, 988
Massachusetts			128,079	2,469	130, 548
New Jersey		83, 922	633, 129	44, 286	761, 337
New York		22,750	161, 248	5, 985	189,988
Pennsylvania		1,890	281,706	4,413	288,009
Total		110,005	1,527,288	73, 564	1,710,857

1902.

State.	Build- ing.	Paving.	Cru	ished stone			
			Road mak- ing.	R. R. bal- last.	Concrete.	Other.	Total.
California			\$95,409	\$1,065	\$115,000	\$316	\$211,790
Connecticut	\$1,057	\$274	235, 743	2,250	48, 188		287,512
Massachusetts	13, 675		239, 552	47,131	70, 182		370,540
New Jersey	34, 640	66,727	532, 128	59,546	80,835	3, 496	777, 372
New York			164,723	26, 126	19, 151		210,000
Pennsylvania	4, 080	13, 244	121, 194	152,649	32,456	320	323, 943
Total	53, 452	80, 245	1, 388, 749	288,767	365,812	4, 132	2, 181, 157

SANDSTONE.

The value of the sandstone quarried in 1902 in the United States was \$10,601,171. This shows an increase of \$2,462,491 over the value for 1901, which was \$8,138,680.

The bluestone production of New York and Pennsylvania, although practically it forms an industry by itself, is included in the above sandstone total.

The entire value of the bluestone produced in these two States was valued at \$1,163,525 in 1902, as compared with \$1,164,481 in 1901, the values for the two years being almost identical. Deducting the value of the bluestone, we have the sandstone production for 1902 valued at \$9,437,646, as compared with \$6,974,199 in 1901; an increase of \$2,463,447. In the figures for 1901 and 1902 no attempt is made to show the value of stone used for abrasives, such as grindstones, whetstones, buhrstones, etc., as these are included in the report on abrasive materials published by this office.

The States showing an increased production were Alabama, Arkansas, California, Colorado, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, New Jersey, New Mexico, New York, Ohio, Oregon, Pennsylvania, Texas, Utah, West Virginia, Wisconsin, and Wyoming. Arizona, Connecticut, Idaho, Nebraska, North Carolina, South Dakota, Tennessee, Virginia, and Washington showed a decrease in value of production. Georgia, Hawaii, Nevada, and Oklahoma, were added to the list of States producing, and made the States and Territories producing sandstone in the United States number forty-one.

Pennsylvania, Ohio, and New York are the largest producers and show values of production of \$2,800,108, \$2,078,754, and \$1,408,699, respectively. The next State approaching these States in production is Massachusetts, with a value of \$487,366. The production of the three principal States in 1901 was: Pennsylvania, \$2,063,082; Ohio, \$1,999,180; and New York, \$1,331,327.

Pennsylvania, Ohio, and New York, in the order named, produced the largest quantities of building sandstone in 1902, the values for these States being \$1,916,959 for Pennsylvania, \$1,279,910 for Ohio, and \$550,439 for New York. In Ohio most of the stone is sold by the quarrymen as rough stone, in Pennsylvania as dressed stone, while in New York it is about evenly divided between the two. New York gives the greatest value for stone for curbing and also for paving, and Ohio for flagstones.

In 1901 the total value of the sandstone sold by the quarrymen for building purposes was \$4,875,973; in 1902 the dressed and rough building stone sold by the quarrymen amounted to \$6,007,484, an increase

of \$1,131,511, which accounted for \$1,000,000 of the entire increase in the value of the sandstone production. The value of the crushed-stone product increased from \$285,347 in 1901 to \$1,116,449 in 1902, an increase of \$831,102.

The value of stone used for paving increased from \$358,910 in 1901 to \$527,617 in 1902, or \$167,707; flagstones increased in value from \$1,026,499 in 1901 to \$1,142,699 in 1902, or \$116,200; curbing increased from \$636,722 to \$672,654, or \$35,932.

The following tables show the values of the sandstone production of the United States in 1901 and 1902, by States and uses:

Value of sandstone produced in the United States in 1901 and 1902, by States and uses.

1901.

	m - 11 3 f	0	crushed ston	e.	a work
State.	Building purposes.	Railroad ballast.	Road making.	Concrete.	Paving.
Alabama	\$1,880				
Arizona	202,500				
Arkansas	10,805	\$700	\$15,136	\$20,368	\$2,000
California	230, 521		23,000	1,000	29,594
Colorado	93,534		15,500		
Connecticut	114,795				
Idaho	20,843				
Illinois	8,720	20			523
Indiana	23, 475				650
Iowa	13, 491		275		25
Kansas	15, 981	450	2,0		1,778
Kentucky	100,569	100			6,000
Maryland	4,546				0,00.
Massachusetts	176,850		14,600	50,800	
Michigan	128, 909		11,000	80,000	
Minnesota	85,800		3,015	6,500	82,500
Missouri	32,899		2,884	12	1,890
Montana	39, 135		2,001	2,300	1,000
Nebraska	515			2,000	
New Jersey	211, 318		756	75	6
New York	512, 352	6,125	9,560	3,030	168,59
North Carolina	11,100	0,120	5,500	0,000	100,00
Ohio	936, 650	2,000	5, 230	7,775	
Oregon	482	2,000	3, 250	1,715	
Pennsylvania		00 155		T DCC	er ne
South Dakota	1,544,621	20, 157	28,919	7,866	65, 06
Tennessee	13, 325			50	
	10, 180		10.000	50	
Texas	39,605		10,000	**********	***********
Utah	32,636				
Virginia	4,703				**********
Washington	67,480			240	
West Virginia	95,406	1, 435	60	235	
Wisconsin	72, 229		1,519		
Wyoming	18,118		***********	23, 706	
Total	4,875,973	30,887	130,503	123, 957	358, 910

Value of sandstone produced in the United States in 1901 and 1902, by States and uses— Continued.

1901—Continued,

State.	Riprap, rub- ble, etc.	Curbing.	Flagstones.	Other purposes.	Totalvalue.
Alabama	\$2,000			\$4,800	\$8,680
Arizona					202, 500
Arkansas	3, 278	\$10,256	\$232	50	62, 825
California	16, 633		280		301, 028
Colorado	24, 406		85,491	18, 400	237, 331
Connecticut	1,470		*********	30, 549	146, 814
Idaho					20, 843
Illinois	355		2,042	1,224	12,884
Indiana	4,098		111		28, 334
Iowa	178		71	75	14, 341
Kansas	125		31, 370	200	49, 901
Kentucky			830	860	108, 259
Maryland					4,546
Massachusetts	400			4,660	247, 310
Michigan	26, 519			19,000	174, 428
Minnesota	52, 870			16,000	246, 685
Missouri	3,278	146	464	597	42, 170
Montana	15,684		200	1,120	58, 439
Nebraska	********				515
New Jersey	18,705			13, 594	244, 512
New York	12,579	281, 679	269,790	67, 616	1, 331, 327
North Carolina	582				11,682
Ohio	95, 563	233, 965	510, 568	207, 429	1, 999, 180
Oregon			***********		531
Pennsylvania	78, 243	85, 676	113,508	119,025	2, 063, 082
South Dakota	4, 272			50	17, 647
Tennessee				112	10, 342
Texas	28, 918	25,000	8,000	45	111,568
Utah	3, 224		3,000	59	38, 919
Virginia	600				5, 303
Washington	20,050			1,404	89, 174
West Virginia	5, 660		214		103, 010
Wisconsin	15, 509		328	840	90, 425
Wyoming	12, 321				54, 145
Total	447, 520	636, 722	1,026,499	507, 709	8, 138, 680

Value of sandstone produced in the United States in 1901 and 1902, by States and uses—Continued.

1902.

			Crushed stone.				_
. State.	Rough	Dressed		ushed sto	ue.	Contat	- Di
suite.	building.	building.	Road- making.	Railroad ballast.	Concrete.	Gamst	er. Riprap.
			making.	Danast.			
Alabama		\$14,252			\$200		\$8,727
Arizona	\$9,570	75,000					4,800
Arkansas	8,374	1,420		\$38,475	6,271		415
California	80,038	123, 240	\$37,750	4,000	146,000		71,090
Colorado	93, 116	15, 267		65,000	6,008		2,347
Connecticut	123, 634	4,945					
Georgia	1, 250						
Hawaii			6,688				
Idaho	7,823	434					
Illinois	21, 185	4,100	25				1,000
Indiana	24, 565	5, 564	1,000				450
Iowa	9,044	775	750		35		
Kansas	10, 157	2,080		42,050			
Kentucky	47,775	5,600	5,000	50,000			
Maryland	7, 210		10	4,500	1,455		545
Massachusetts	93, 197	96, 595	256, 273		40, 256		
Michigan	136, 280	23,600					800
Minnesota	30, 796	70, 935	5,400		15,699		4,061
Missouri	32, 880	15, 323		900	450		345
Montana	4,822	61, 158			750		3,795
Nebraska	96	24	18		25		
Nevada	2,383						
New Jersey	232, 051	81,145	50		30,880		
New Mexico	6,800	2,125					
New York	279,009	271, 430	50, 447	3, 795	5, 310		5, 452
North Carolina	750	4,000					
Ohio	1,067,938	211,972	1,554	75	6,675	\$1,59	5 21,853
Oklahoma	24, 281		1,028				
Oregon			2,020				
Pennsylvania	491, 285	1, 425, 724	30,742	129, 591	18,972	92, 47	1 62, 927
South Dakota	19,970	22, 192		168			3,652
Tennessee	6, 950	600					
Texas	4,832	28,000	16, 300		25, 907		59, 919
Utah	63, 529	265					
Virginia	2,200	300					
Washington	2,500	15, 225					8,000
West Virginia	104, 601	193, 157	3, 995	8,685	12,361		3,323
Wisconsin	54, 392	85, 353	83	630	51	18,58	5, 436
Wyoming	14,003	26, 448	25,000		9,162		332
Total	3, 119, 236	2,888,248	442, 113	347, 869	326, 467	112,60	0 269, 269
			,	,	0.00, 101	220,00	200,200
State.	Rubble.	Paving.	Flagston	e. Curbin	ng. Oth	er.	Total value.
Alabama	\$16,675				8	2,852	\$42,706
Arizona	18, 300					240	107, 910
Arkansas	3, 115	\$9,810	\$2,97	9 \$14,	878	180	85, 917
California	210		,	42.4		100	462, 328
Colorado	37,998	718	101,48	6 42,	607	1,614	366, 161
Connecticut							128, 579
Georgia							1, 250
Hawaii							6,688
			THE RESERVE			SERVICE STATE	

Value of sandstone produced in the United States in 1901 and 1902, by States and uses— Continued.

1902—Continued.

						-3
State.	Rubble.	Paving.	Flagstone.	Curbing.	Other.	Total value.
Idaho	\$5,520					\$13,777
Illinois	2,925	\$2,400	\$160		\$405	32, 200
Indiana	1,069	240	120	\$4,585		37, 593
Iowa	3,157		75		1, 225	15, 061
Kansas	6,162	275	21, 124	23, 561	100	105, 509
Kentucky		1,075	7,420	4,900	6,700	128, 470
Maryland	1,035				650	15, 405
Massachusetts	1,000			45		487, 366
Michigan	27,393					188, 073
Minnesota	29, 351	140,726	225	43, 659	6,620	347, 472
Missouri	3,001		881	1,710	1,500	56, 990
Montana	4,462		390	2, 435	7, 340	85, 152
Nebraska	5					168
Nevada	3,657			75		6, 115
New Jersey	59,777		2,200		623	406, 726
New Mexico	50	360	756	950	1,250	12, 291
New York	18,583	264,858	230, 158	272, 831	6,826	1, 408, 699
North Carolina	75					4,82
Ohio	44, 471	750	664,659	43,077	14, 135	2,078,754
Oklahoma	1					
Oregon				**********		25, 309
Pennsylvania	202, 295	26, 985	104, 521	174, 184	40, 461	2,800,108
South Dakota	24, 447	39, 260		500	600	110,789
Tennessee					120	7,670
Texas	7,000			22,850	757	165, 563
Utah		35,000	2, 200	4,010	7	105,011
Virginia			7,500			2,500
Washington	5,000					30,72
West Virginia	79,030		2,745	15,635		423, 531
Wisconsin	29, 760	160	2, . 10	112	12,575	207, 086
Wyoming	10,096	5,000	600	50	12,010	90, 691
, , , , , , , , , , , , , , , , , , , ,	10,000	0,000	300	50		
Total	645, 619	527, 617	1, 142, 699	672,654	106,780	10, 601, 171

The following table shows the value of the sandstone production in the United States from 1898 to 1902, inclusive, by States:

Value of sandstone production in the United States, 1898-1902, by States.

State.	1898.	1899.	1900.	1901.	1902.				
Alabama	\$27,882	\$71,675	\$7,132	\$8,680	\$42,706				
Arizona	57,444	4, 168	64,000	202,500	107,910				
Arkansas	24,825	73,616	104,923	62, 825	85, 917				
California	358,908	261,193	200,090	301,028	462, 328				
Colorado	89,637	129,815	119,658	237, 331	366, 161				
Connecticut	215, 733	271,623	192,593	146, 814	128, 579				
Georgia			600		1,250				
Hawaii					6,688				
Idaho		and the same of th	438	20, 843	13, 777				
Illinois	13,758	16,133	19,141	12,884	32, 200				
Indiana	45, 342	35,636	45,063	28, 334	37,593				

Value of sandstone production in the United States, 1898–1902, by States—Continued.

State.	1898.	1899.	1900.	1901.	1902.
Iowa	\$7,102	\$24,348	\$19,063	\$14, 341	\$15,061
Kansas	19,528	49,629	55, 173	49, 901	105,509
Kentucky	72,525	119,982	56,178	108, 259	128,470
Louisiana	200, 500	a 226, 503	b 118, 192		
Maryland	13, 646	24, 426	6,655	4, 546	15,405
Massachusetts	91, 287	131,877	153, 427	247, 310	487,366
Michigan	222, 376	320, 192	238,650	174, 428	188,073
Minnesota	175, 810	294, 615	267,000	246, 685	347, 472
Missouri	48, 795	57,662	53, 401	42,170	56,990
Montana	3,682	26,160	59,630	58, 439	85, 152
Nebraska				515	168
Nevada					6,115
New Jersey	257, 217	147,768	198, 234	244, 512	406,726
New Mexico	3,500	1,829	2,500		12, 291
New York	566, 133	c 1, 218, 053	c 1, 467, 496	c1,331,327	c1, 408, 699
North Carolina	9,100	10,300	27,210	11,682	4,825
Ohio	1, 494, 746	1,775,642	2, 233, 596	1, 999, 180	2,078,754
Oklahoma					25,309
Oregon	7,864	4,153	5, 450	531	5 20,000
Pennsylvania	478, 451	0717,053	c1,050,248	c2,063,082	02,800,108
South Dakota	9,000	18,325	12,675	17,647	110,789
Tennessee			11,300	10, 342	7,670
Texas	77, 190	35, 738	37,038	111,568	165, 565
Utah	15, 752	29,091	66,733	38, 919	105, 011
Virginia		8,000	6,000	5, 303	2,500
Washington	15, 575	58, 395	68, 133	89, 174	30, 725
West Virginia	14, 381	33,860	72,438	103, 010	423, 532
Wisconsin	80, 341	132, 901	81,571	90, 425	207, 086
Wyoming	6, 382	32, 583	27, 671	54, 145	90, 691
Total	4,724,412	6, 362, 944	7, 149, 300	8, 138, 680	10, 601, 171

a Includes small amounts for Idaho and Nevada. b Includes Mississippi. c Includes bluestone.

Value and uses of bluestone produced in New York and Pennsylvania in 1901 and 1902. 1901.

State.	Building purposes.	Flagging.	Curbing.	Gutter and crossings.	Coping, steps, sills, and lintels.	Other purposes.	Total value.
New York	\$156,091	\$230,453	\$206,455	\$32,466	\$164, 296	\$48,363	\$838, 124
Pennsylvania	103,718	87,008	42,747	12,189	35, 044	45, 651	326, 357
Total	259,809	317,461	249, 202	44,655	199, 340	94, 014	1, 164, 481

1902.

State.	Building purposes.	Flagging.	Curbing.	Crushed stone.	Other purposes.	Total value,
New York	\$302,947	\$203, 743	\$152,241	\$28,847	\$9,935	\$697,713
Pennsylvania	177, 296	92, 469	69, 556	90, 209	36, 282	465, 812
Total	480, 243	296, 212	221, 797	119,056	46,217	1,163,525

The following table shows the value and uses of the bluestone produced in New York and Pennsylvania in 1901 and 1902:

SLATE.

The production of slate in 1902 increased in value from \$4,787,525 in 1901 to \$5,696,051, a gain of \$908,526. This increase was principally in Pennsylvania and Vermont. California, Georgia, Maine, Maryland, and New York also increased, while New Jersey and Virginia decreased in value of production. Minnesota reported no production in 1902, and Arkansas was added to the list of producers.

The increase in production was from 1,304,379 squares, valued at \$4,114,410, in 1901, to 1,435,168 squares, valued at \$4,950,428, in 1902, an increase in quantity of 130,789 squares, and in value of \$836,018. The increase in value of mill stock was from \$673,115 in 1901 to \$745,623 in 1902, or a gain of \$72,508.

The increase in the average value per square of roofing slate produced in 1902 over that produced in 1901 is quite noticeable, the average value per square in 1902 being \$3.45, while in 1901 the average value per square was \$3.15. The highest average value in 1902 for a State production was \$8 per square in Arkansas, and the lowest was \$3.30 per square in Pennsylvania.

The following tables show the value of roofing and milled slate produced in the United States in 1901 and 1902, by States:

Value of roofing and mill slate produced in the United States in 1901 and 1902, by States.

1901.

	Roofing	g slate.	Value of	Total
State,	Number of squares.	Value.	milled stock.	value.
California	2,500	\$18,608		\$18,608
Georgia	800	3,000		3,000
Maine	20, 791	111, 295	\$91,030	202, 32
Maryland	20, 153	104,781	1,017	105, 798
Minnesota			1,400	1,400
New Jersey	7,500	30,000		30,000
New York	15,786	91,805	9, 155	100, 960
Pennsylvania	853, 028	2, 591, 625	392, 639	2, 984, 264
Vermont	330, 191	984, 317	177,874	1, 162, 193
Virginia	53, 630	178, 979		178, 979
Total	1, 304, 379	4,114,410	673, 115	4, 787, 525
-1902	3.			
1909 Arkansas	2. (a)	(a)		(a)
Arkansas		(a) (a)		(a) (a)
Arkansas	(a)	, ,		
Arkansas . California. Georgia	(a) (a)	(a)		(a) (a)
Arkansas California Georgia Maine	(a) (a) (a)	(a) (a)		(a) (a) \$206, 55
	(a) (a) (a) (a) 26,468	(a) (a) \$143,832	\$62,726	(a) (a) \$206, 55
Arkansas California Georgia Maine Maryland	(a) (a) (a) (a) 26, 468 22, 569	(a) (a) \$143,832 117,155	\$62,726	(a) (a) \$206, 55 118, 08 (a)
Arkansas California Georgia Maine Maryland New Jersey New York	(a) (a) (a) 26, 468 22, 569 (a)	(a) (a) \$143,832 117,155 (a)	\$62, 726 929	(a) (a) \$206, 556 118, 08 (a) 126, 71
Arkansas California Georgia Maine Maryland New Jersey New York	(a) (a) (a) 26, 468 22, 569 (a) 21, 166	(a) (a) \$143,832 117,155 (a) 116,628	\$62,726 929	(a) (a) \$206, 556 118, 08 (a) 126, 716 3, 547, 32
Arkansas California Georgia Maine Maryland New Jersey New York Pennsylvania	(a) (a) (a) 26, 468 22, 569 (a) 21, 165 908, 206	(a) (a) \$143,832 117,155 (a) 116,628 3,001,545	\$62, 726 929 10, 090 545, 777	(a) (a) \$206, 556 118, 08 (a) 126, 716 3, 547, 32 1, 464, 91
Arkansas California. Georgia Maine Maryland New Jersey New York. Pennsylvania	(a) (a) (a) 26, 468 22, 569 (a) 21, 165 908, 206 400, 029	(a) (a) \$143,832 117,155 (a) 116,628 3,001,545 1,338,817	\$62,726 929 10,090 545,777 126,101	(a) (a) \$206, 556 118, 08

 $[\]alpha$ Included in the statement for Other States. b Includes Arkansas, California, Georgia, and New Jersey.

The following table shows the average value of roofing slate per square since 1890:

Average annual price per square of roofing slate for the entire country.

1890	\$3.34	1897	\$3.09
1891	3.49	1898	3, 42
1892	3.56	1899	3.14
1893	3.55	1900	3.01
1894	3.11	1901	3.15
1895	3.23	1902	3, 45
1896	3.36		

Value of slate produced in the United States, 1898-1902.

State.	1898. 1899.		1900.	1901.	1902.
Arkansas					(a)
California	\$2,700	\$6,642	\$26,500	\$18,608	(a)
Georgia	13,125		9,375	3,000	(a)
Maine	199, 237	181,766	177,342	202, 325	\$206,558
Maryland	82, 240	93,595	128,673	105,798	118,084
Massachusetts	958				
Minnesota	400		700	1,400	
New Jersey	800	(2)	13,600	30,000	(a)
New York	48,694	76,675	62,755	100, 960	126,718
Pennsylvania	2, 491, 756	2,537,022	2,713,598	2,984,264	3, 547, 322
Tennessee		(a)	250		
Utah		(a)			
Vermont	732, 684	872,673	917, 462	1, 162, 191	1, 464, 918
Virginia	150, 946	183, 110	190, 211	178,979	160, 951
Other States		11,250			b 71, 500
Total	3, 723, 540	3, 962, 733	4, 240, 466	4, 787, 525	5, 696, 051

a Included in Other States.
b Includes Arkansas, California, Georgia, and New Jersey.

EXPORTS.

The export trade in roofing slate, which rose so precipitately in value from \$780,112 in 1897 to \$1,370,075 in 1898, and which had decreased up to 1901, showed a slight increase in 1902. In 1902 the value of roofing slate exported, as shown in the figures of the Bureau of Statistics of the Department of Commerce and Labor, was \$945,352, an increase of \$47,090 over the value, \$898,262, given for 1901. The chief exportation is to Great Britain, to which slate to the value of \$731,556 was sent in 1902. In 1898 the value of roofing slate exported to Great Britain was \$1,213,377. Exports of slate to British Australasia, which have been increasing for the last four years, are next in value, amounting to \$79,319 in 1901 and to \$121,921 in 1902. The exportation to Denmark is next. Beginning in 1898 with \$8,150, the value of roofing slate exported to this country has since risen to \$47,957 in 1902.

Most of this slate is shipped from New York, Philadelphia, Baltimore, and Boston.

м в 1902-44

The following table shows the ports and customs districts from which and to which slate has been exported since 1893:

Exports of slate from the United States, showing ports and customs districts from which and to which sent, from 1893 to 1901.

	400									
Port and customs district.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.
Baltimore, Md				89,860	\$101,581	\$170,916	\$99,083	\$110,049	\$135,571	\$240.734
Bangor, Me	THE RESERVED OF	8445		350	Angeles and a second		,	577	1,144	449
Belfast, Me	100000000000000000000000000000000000000								.,	375
Boston and Charlestown,	Principles upon		\$443	609	1,020	385	40, 622	65,531	93,972	48, 299
Newport News, Va	STATE OF THE PARTY OF	TAMES AND THE REAL PROPERTY.			18,170	0.000		The same of the sa	12,910	The second second
New York, N. Y				242, 559					388,590	
Passamaquoddy, Me	Contract Contract	The state of the s	100000	The second second	120	S. S. C.				164
Philadelphia, Pa				2,300	94, 865	136, 916	205, 779	150, 254	236,090	243, 701
Portland and Falmouth, Me					270					
Brazos de Santiago, Tex.	5						14			
Corpus Christi, Tex			105	174		1,761				44
New Orleans, La		587								
Paso del Norte, Tex		621								20
Puget Sound, Wash						22	67		1,436	1,343
San Diego, Cal							7			
Arizona									20	790
Buffalo Creek, N. Y	13, 428	13,696	4,748	5, 903	2,378	4,141	6, 364	6,584	19,193	18,014
Champlain, N. Y	869	1,869	1,961	1,617	613	3,015	937	2,320	2,446	6,561
Detroit, Mich			65	2,874	2,427	854	129	1,441	380	
Huron, Mich								424		
Memphremagog, Vt									644	246
North and South Dakota.	94	160			111 01	137		612	942	
Oswegatchie, N. Y								487	4,915	3,702
Vermont	24	133	200	139	1,569			26	9	
Total	52,012	37, 195	38, 806	266, 385	780, 112	1, 370, 075	1, 363, 617	950, 543	898, 262	945, 352
Belgium	COKING	la Jan	a Director	S CALLED		5	524		and the second	againes.
France				12,000						
Germany	The second second		25		5,850	82,916	65, 974	17,921	5,180	1,555
Netherlands	A - Ditti				2,087			CO SECURITION OF	600	1,400
United Kingdom	1,400	4,800	3,000	197, 440	The state of the s	The second second	-			
Denmark		7,000	0,000		000,000	8, 150				
Norway and Sweden	A CONTRACTOR OF THE PARTY OF TH					270				
Bermuda	SOLUTION S	336	1,550	2,312	1,395		5,000	32.2		
Dominion of Canada:			.,		-,			- ECR	E 01-3	10,733
Nova Scotia, New Brunswick, etc	119	445	406	1,278	730	or gride	288	798	1,269	532
Quebec, Ontario, etc.	14,615	15,858	6,974	10,533	6,977	8,147	7,430	11,894	27,587	28,600
British Columbia						22			2,378	1,343
Newfoundland and Lab- rador	32		13					30	:	
Central American States		1								1
Costa Rica										1,268
Guatemala						1,755				
Honduras		587								*******
Mexico	. 22	621	488	821	150	1,872	330		20	854
Miquelon, Langley, etc.						35			60	
West Indies:					1 2 3					
British		3,803	4,419	1, 159	1,860	2,356	1,400	2,049	1,067	6,609
Haiti		330				26		332		

Exports of slate from the United States, showing ports and customs districts from which and to which sent, from 1893 to 1901—Continued.

Port and customs district.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.
Santo Domingo			\$10							
Cuba		\$2,643	3, 258	\$90		\$673	\$16			
Colombia				259	\$100			\$285		
Guianas:										
British		712	702	440	165	600				
Dutch	. \$3,145		340		1,640	1,325	2,275	650		\$365
Peru	. 405							1,000		
Uruguay				417		807	760	829	\$424	195
China						110				
East Indies—British				1,628	810	550				50
British Australasia	. 30,362	7,060	17,363	34,970	60,604	44,642	64, 434	71,881	79, 319	121,921
Hawaiian Islands				245	166		77			
British Africa	. 866		258	1,883	1,598	2, 218	4,335	2,458	4,847	679
Portuguese Africa						42	3			
Total	. 52,012	37, 195	38,806	266, 385	780, 112	1, 370, 075	1,363,617	950, 543	898, 262	945, 852

MARBLE.

The marble production of 1902 was valued at \$5,044,182. This is \$78,483 more than the value of the production of 1901, which was \$4,965,699. The production in Arkansas, California, Maryland, Massachusetts, Montana, New York, Oregon, Pennsylvania, Tennessee, Utah, and Washington increased in value, while the production of Georgia, New Mexico, and Vermont decreased slightly. Alabama and Connecticut, reporting no production in 1901, showed an output in 1902; and Alaska and Arizona reported no production in 1902. The production of Missouri and Oregon was small, and is included with the limestone figures for those States.

The following tables show the purposes for which the marble of the various producing States was sold by the quarrymen in 1901 and 1902:

Value of the marble product, by uses and States, 1901 and 1902.

1901.

State.	Rough,	Building.	Orna- mental.	Monu- mental.	Interior.	Other.	Total.
Alabama							
Alaska	\$4,500						\$4,500
Arizona	300						300
Arkansas	200		\$100				300
California	3,280	\$1,550	1,812				6,642
Connecticut							
Georgia	268, 761	241,683	16,500	\$207,305	\$166,300	\$36,000	936, 549
Iowa							
Maryland	8,100	45,000		15,000			68, 100
Massachusetts	63,556	26, 220	3,700	9,560	15,051	8,459	126, 546
Missouri			*******	2,100			2,100
Montana				1,500			1,500
New Mexico	4,200	3,000	300	3,100			10,600
New York	2,367	132, 943	4,900	204, 289	28,000	6,660	379, 159
Oregon				500			500
Pennsylvania	18,078	111,069		25,060	400	2,940	157, 547
Tennessee	162,513	13,000		14,000	305, 124		494, 637
Utah	320				3001-00		320
Vermont	53,892	659, 200	94, 450	1, 452, 434	493,607		2, 753, 583
Washington	1,600	2,358	4, 814	14,044			22,816
Total	591,667	1, 236, 023	126, 576	1,948,892	1,008,482	54, 059	4, 965, 699

Value of the marble product, by uses and States, 1901 and 1902—Continued. 1902.

The Later of the L	100		199	MOL			De la	Life.		
	I	tough.			D	ressed.				
State.	Build- ing.	Monu- men- tal.	Other.	Building.	Monu- men- tal.	Orna- men- tal.	Interior decoration.	Other purposes.	Other pur- poses	Total.
Alabama		HOUSE STREET								(a)
Alaska										
Arizona		******	******				******	*******		
Arkansas										(a)
California	\$13,400	\$98	\$19,700		\$4,000	\$100	\$55,000			\$92, 298
Connecticut	The state of the s									(a)
Georgia	The second second	166, 017	81,000	\$50,000	7,500		6,000			660, 517
Maryland						******		.,,,,,,		(a)
Massachusetts				81, 394		6,000	15,056		\$11,344	165, 489
Missouri b										********
Montana	000000000000000000000000000000000000000									(a)
New Mexico	Paragraph of the Paragr									(a)
New York	83, 230	75, 342	8, 433	267,013	143,080	200			•••••	577, 298
Oregon b										
Pennsylvania	A STATE OF THE STA			110,977	7.5				3,000	
Tennessee	227, 337	26,000	4,500		9,000		240, 419	\$11,000		518, 256
Utah										(a)
Vermont		677, 528	-	The state of the s		The second second	321,689	The state of the s		2, 628, 164
Washington	A STATE OF THE PARTY OF THE PAR						19,200	1		
Other States	36, 997	40, 819	2, 103	63,780	10,900	1,000	22,549	336	1,000	180,561
Total	1, 146, 639	985, 804	3, 180	1,038,302	956, 870	7,300	679, 913	71,024	15, 244	5, 044, 182

a Includes Alabama, Arkansas, Connecticut, Maryland, Montana, New Mexico, and Utah. b Production of Missouri and Oregon included under report on limestone. c Included in Other States.

The following table shows the value of the marble produced in the United States from 1898 to 1902, inclusive, by States:

Value of marble, by States, from 1898 to 1902, inclusive.

State.	1898.	1899.	1900.	1901.	1902.
Alabama			\$500		(a)
Alaska				\$4,500	
Arizona			5,000	300	
Arkansas		\$3,410		300	(a)
California	\$40,200	6,500	17,500	6,642	\$92,298
Colorado		10,776			
Connecticut					(a)
Georgia	656,808	742, 554	631, 241	936, 549	660, 517
Idaho	4,400		1,250		
Maryland	120, 525	77,000	70,000	68,100	(a)
Massachusetts	38, 210	59, 416	130,735	126, 546	165, 489
Missouri			900	2,100	
Montana			1,200	1,500	(a)
New Mexico			4, 500	10,600	(a)
New York	342,072	338, 816	332, 518	379, 159	577, 298
Oregon				500	

a Included in Other States.

Value of marble, by States, from 1898 to 1902, inclusive—Continued.

State.	1898.	1899.	1900.	1901.	1902.
Pennsylvania	\$39,373	\$139,506	\$151,167	\$157,547	\$160, 423
Tennessee	316, 814	a 884,705	424,054	494, 637	518, 256
Utah		2,355		320	(b)
Vermont	2,067,938	2,241,806	2, 484, 852	2, 753, 583	2, 628, 164
Washington	3,600	4,837	11,836	22,816	61, 176
Other States					c180,561
Total	3, 629, 940	4,011,681	4, 267, 253	4, 965, 699	5, 044, 182

The following table shows the various uses to which the marble quarried in 1898, 1899, 1900, 1901, and 1902 was put:

Distribution and value of output of marble in 1898, 1899, 1900, 1901, and 1902 among various uses.

Use.	1898.	1899.	1900.	1901.	1902.
Sold by producers in rough state	\$690, 240	\$640,535	\$491,813	\$591,667	\$2, 276, 629
Dressed for building	968, 353	1, 176, 208	1,080,969	1, 236, 023	1,038,102
Ornamental purposes	23, 904	92, 942	13,754	126, 576	7,300
Dressed for monumental work	1, 613, 742	1,650,155	2, 019, 474	1,948,892	956,870
Interior decoration in buildings	304, 714	389, 040	555, 092	1,008,482	679, 913
Other uses	28, 987	62, 801	106, 151	54,059	85,268
Total	3, 629, 940	4,011,681	4, 267, 253	4, 965, 699	5, 044, 182

a Contains small amount from North Carolina.
b Included in Other States.
c Includes Alabama, Arkansas, Connecticut, Maryland, Montana, New Mexico, and Utah.

LIMESTONE.

The limestone production in the United States in 1902, including limestone for blast-furnace flux, was valued at \$30,231,003. In 1901 the value was \$26,406,897, a gain in 1902 of \$3,824,106. In 1901 the increase over the value for 1900, which was \$20,354,019, was \$6,052,878. This shows that, although there was a considerable gain in the production for 1902, the increase was very much less than the increase for the previous year.

Of the 42 States reporting a production in 1902, 29 showed an increase in value of output, and 13 a decrease. In 1901, 41 States reported, 35 with increased production, and 6 with decreased production. In order of importance Pennsylvania, Illinois, Ohio, Indiana, New York, Missouri, and Wisconsin give the largest value of production. The output of these States for 1902 was as follows: Pennsylvania, \$5,420,287; Illinois, \$3,222,608; Ohio, \$3,201,718; Indiana, \$2,865,691; New York, \$2,419,121; Missouri, \$1,697,139; and Wisconsin, \$1,351,058.

In 1901 the rank and production was: Pennsylvania, \$5,081,387; Indiana, \$2,993,186; Illinois, \$2,793,837; Ohio, \$2,606,502; New York, \$1,738,716; Missouri, \$1,362,272, and Wisconsin, \$1,225,448. From this it will be seen that while Pennsylvania kept first rank for both years, Indiana went from second place in 1901 to fourth place in 1902, Illinois from third to second, Ohio from fourth to third, and that the other States remained the same, New York fifth, Missouri sixth, and Wisconsin seventh.

The State next to these in rank in 1902 was Minnesota, with a production of \$830,857, and in 1901 Iowa with a production of \$777,484.

According to the uses to which the stone was put in 1902, the ranking States and the values of production were: Building stone, Indiana, \$1,813,577, and Illinois, \$640,443; flagstone, Indiana, \$75,659, and Illinois, \$70,491; curbstone, Indiana, \$117,077, and Wisconsin, \$50,251; lime, Pennsylvania, \$1,329,095, and Ohio, \$1,082,277; crushed stone, Illinois, \$1,220,772; Pennsylvania, \$1,136,832, and New York, \$1,085,458; limestone for flux, Pennsylvania, \$2,461,426; Ohio, \$630,325, and West Virginia, \$268,059.

Under stone used for "other purposes" is included stone for chemical purposes, marble dust, paving stone, monumental stone, limestone used by glass factories and by sugar factories, and for various purposes not enumerated.

The total value of the limestone used for building stone increased from \$5,219,310 in 1901 to \$5,563,084 in 1902, or \$343,774; the value of lime increased from \$8,204,054 in 1901 to \$9,335,618, or \$1,131,564; the value of crushed stone increased from \$5,271,642 in 1901 to \$7,152,730 in 1902, or \$1,881,088; the value of blast-furnace flux from

9,319,672 long tons (estimated), valued at \$4,659,836 in 1901 to 12,139,248 long tons, valued at \$5,271,252 in 1902, a gain in value of \$611,416.

The following tables show the value of the production of limestone in the United States in 1901 and 1902, by States and uses:

Value of the production of limestone in the United States in 1901 and 1902, by States and uses.

1901.

State or Territory.	Building		Dinman	Crushed stone.			
	purposes.		Riprap rubble, etc.	Road mak- ing.	Railroad ballast.	Concrete.	
Alabama	\$42,695		\$225		7/2015	\$2,500	
Arkansas	3,466	\$1,020	320	\$1,000			
California	1,500		6,366	145, 225	\$60,900	5, 023	
Colorado			3, 141	100			
Florida			6, 250	3,670	2,750		
Georgia	3,000				9,860	3, 721	
Idaho	100		520			25	
Illinois	384, 949	101,410	477, 435	452, 143	478, 452	225, 151	
Indiana	2, 123, 237	149,363	61,526	181,696	29,042	15,002	
Iowa	272, 501	8,117	85, 342	83,055	30,562	70, 285	
Kansas	290,730	16,872	27, 147	14,329	107,904	15, 050	
Kentucky	59, 425	10,697	5,500	60,423	29,622	9, 370	
Maryland	14,138	1,796	420	43, 887	8,000	1,776	
Massachusetts	7,224		453			150	
Michigan	47,785	380	5, 098	31,605	18,200	75, 643	
Minnesota	375, 308	20,773	39, 477	17,918	200	2, 150	
Missouri	377, 146	73,197	56, 345	105,435	116, 293	73, 745	
Montana	7,336	30	1,000				
Nebraska	44,015	810	26, 312	10,904	5,025	51, 380	
New Jersey	2,460	61	750	1,275	650	, 50.	
New York	265, 024	5,055	13, 997	188, 277	146,077	293, 530	
North Carolina		A STATE	(CONTRACTOR	4,668		200,000	
Ohio	341, 389	13,869	41, 451	489, 940	299, 599	64, 34	
Oklahoma	4, 147	2,716	600	9	24, 525	02,02	
Oregon		2,710	000	12,000	21,020	100	
Pennsylvania	192, 972	7,321	29, 291	221, 032	273, 260	252, 603	
South Carolina	100,010	1,021	20,201	1,000	270, 200	202,000	
South Dakota	225	Left Land		2,000		7	
Tennessee	40, 258	775	2,915	1,760	35, 425	4, 93	
Texas	45, 630	3, 117	7, 215	3,900	00, 120	5, 350	
Utah	6, 629	0,111	1,210	23		0,00	
Vermont	64			610		E CONTRACTOR OF THE PARTY OF TH	
Virginia	2, 270		27,650	100	695	2,068	
Washington	2, 270		27,000	100	000	840	
West Virginia	Release Harr	25	Numer 1	125	75,000	OH.	
Wisconsin	263, 687	46,571	97, 213	222, 177	6,500	40,05	
Wyoming	200,007	40,571	100	200,111	0,000	20,03	
in Johning			100			- 4	
Total	5, 219, 310	463, 975	1,024,059	2, 298, 286	1,758,541	1, 214, 816	

Value of the production of limestone in the United States in 1901 and 1902, by States and uses—Continued.

1901—Continued.

State or Territory.	Lime.	Sold to lime burners.	Flux.	Other purposes.	Total.			
Alabama	\$201,586	\$150	\$354, 267	\$18,000	\$619, 423			
Arizona	300			4,	300			
Arkansas	62, 163	350			68, 319			
California	343, 625	2,836	47,830	32, 150	645, 455			
Colorado	102, 466	4, 480	121,839	13,773	245, 799			
Connecticut	139, 374	38	1,012		140, 424			
Florida	39, 150	50			51,870			
Georgia	65, 888		3,160		85, 629			
Idaho	20,606				21, 251			
Illinois	504, 018		103,729	66,550	2, 793, 837			
Indiana	223, 340	1,200	193,469	15, 311	2,993,186			
Iowa	221, 760			5,862	777, 484			
Kansas	6,350			604	478, 986			
Kentucky	12, 290		6,998	5,242	199, 567			
Maine	709, 251	500	5, 521		715, 272			
Maryland	307, 657	4,007	700		382, 381			
Massachusetts	234, 261		1,843	108	244,039			
Michigan	136, 160	136, 173	13,488	101,399	565, 931			
Minnesota	57, 277			9,675	522,778			
Missouri	546, 549		7,607	5,958	1,362,272			
Montana	22, 250		113, 250		143,866			
Nebraska	500	4, 281	10,640	850	154,717			
New Jersey	62,707	1,708	40,587	199,540	309,738			
New York	631, 358	46, 327	16, 190	132,881	1,738,716			
North Carolina	3, 598				8, 266			
Ohio	726, 883	24, 822	550, 346	53, 856	2,606,502			
Oklahoma				500	32,497			
Oregon	12, 420				24,520			
Pennsylvania	1, 249, 996	151, 104	2, 243, 692	460,116	5,081,387			
Rhode Island	37, 798		232		38,030			
South Carolina	27,500				28,500			
South Dakota	13,830		39,725		53,780			
Tennessee	181, 219		62,640	1,000	330, 927			
Texas	93, 587		50, 294	565	209,658			
Utah	36, 910		34,588	750	78,900			
Vermont	204, 400		64		205, 138			
Virginia	220, 013		243, 585	42,750	539, 128			
Washington	210, 341	6, 192	16,514	700	234, 587			
West Virginia	10, 797		352, 344		447,049			
Wisconsin	522, 661		23, 682	2,905	1, 225, 448			
Wyoming	1,215				1,340			
Total	8, 204, 054	392, 976	4,659,836	1, 171, 045	26, 406, 897			
	0,201,001	002,010	1,000,000	1,171,010	20, 400, 697			

Value of the production of limestone in the United States in 1901 and 1902, by States and uses—Continued.

1902.

			190	0.2.					
Same Cont			- Control of		Stone	Crushed stone.			
State or Territory.	Building purposes.	Flagging.	Curbing.	Lime made.	sold to lime burners.	Road making.	Railroad ballast.	Concrete.	
Alabama	\$37,358		\$1,275	\$235,568		\$ 7,890	\$2,500	\$2,500	
Arkansas	1,900		1,500	82, 853		15, 510	7,000		
California	17, 250		250	395, 995		900	1,625	24, 375	
Colorado				46,345	\$521				
Connecticut				203, 899				Established .	
Florida	11,000			37, 963		9,658	1,350		
Georgia	4, 295	\$17,500		71, 724			12,310		
Idaho				13,049					
Illinois	640, 443	70,491	39, 296	485, 644		588, 796	399, 537	232, 439	
Indiana	1, 813, 577	75,659	117,077	312, 189		180, 188	55,740	38,563	
Iowa	195,009	6,893	2,374	114,051	95	103, 074	21,298	29,000	
Kansas	175, 374	7,315	5,675	7,358		18,598	354, 721	10,585	
Kentucky	124, 467	1,305	45,773	15, 893		125, 048	176,032	26, 137	
Maine				742, 132					
Maryland	16,953		1,575	326, 417	5, 834	74, 205	17, 161	4,600	
Massachusetts	12,378		-,-	324, 480		1-1-1-		1,093	
Michigan	58, 707	200	489	208, 232	98,000	56, 261	40,810	49, 430	
Minnesota	451, 368	25, 481	7,260	75,870	1,344	65, 744		62,500	
Missouri	429, 115	536	32,444	515, 780		193, 327	141, 185	168, 229	
Montańa	6,375	1,400	0.00)	8,775		200,020	212,200	2003	
Nebraska	46, 910	150	85	150	400	15, 050	12,510	25, 182	
Nevada				2,800		20,000	,		
New Jersey	4,450			123, 478				580	
New York	480, 141	3,420	857	561, 228	43, 531	514, 916	267, 189	302, 489	
North Carolina	100,111	0, 120	COI	2,090	20,001	21,063	201,105	004, 100	
Ohio	329,808	5,604	4,718	1,082,277	62, 218	454, 170	317, 281	180,300	
Oklahoma	22,562	7,783	4,540	25	Umj arc	104,110	9,000	400,000	
Oregon	22,002	1,100	2,020	20, 133			2,000	3100000000	
Pennsylvania	209, 215	3,971	4,572	1, 429, 643	16,690	215, 533	575, 244	358, 578	
Rhode Island	1	0,011	1,012	1, 120, 010	10,000	210,000	0,0,211	500,010	
South Carolina				70, 124			350		
South Dakota	775			21,300			1	9,600	
Tennessee	57, 399	180	3, 257	235, 615		8,878	56, 317	5,518	
Texas	69, 327	6,620	8,700	82,500		0,010	400	18,593	
Utah	3,960	0,020	0,100	99, 463		400	100	10,000	
Vermont	4,500			219, 306		1,387			
Virginia	41, 355			241, 984		1,007	7,875	11,580	
Washington	11,000			186,070			1,610	11,000	
West Virginia	25	400		181,608	8,760	1,455	153, 696	2,200	
Wisconsin	296, 998	6,780	50, 251	549, 357	0, 100	218, 934	29, 950	36,593	
Wyoming	90	0,700	00, 201	2,250		210, 904	23, 550	30,093	
				-			***********	***************************************	
Total	5, 563, 084	241, 688	331,968	9, 335, 618	237, 393	2, 890, 985	2,661,081	1,600,664	
And in concession of the last		-						Annual Control of the	

Value of the production of limestone in the United States in 1901 and 1902, by States and uses—Continued.

1902—Continued.

State or Territory.	Rubble.	Riprap.	Flux.	Other purposes.	Total.			
Alabama	\$1,735	\$5,726	\$465,065		\$759,617			
Arkansas		4, 350		\$50	113, 163			
California	5,250	1,400	5,250	44,548	496, 843			
Colorado			155, 484	1,350	203,700			
Connecticut			1,472		205, 371			
Florida		3,600			63, 571			
Georgia			5,760		111,589			
Idaho			2,025		15,074			
Illinois	353, 699	154,624	214,881	42,758	3, 222, 608			
Indiana	37, 916	15,346	187, 265	32,171	2,865,691			
Iowa	144, 339	32,588		1,263	649,984			
Kansas	79,769	9,292		1,849	670,536			
Kentucky		22,500	15, 487	41,105	593,747			
Maine			1,000	2,000	745, 132			
Maryland		22	3, 263	3,000	453,030			
Massachusetts			1,398		339, 349			
Michigan	3, 101	5,740	32, 246	68, 164	621,380			
Minnesota	106,693	33, 447		1,150	830, 857			
Missouri	147, 151	43,998	14,065	11,309	1,697,139			
Montana	175		88,000		104, 725			
Nebraska	24, 114	16,515	4, 407		145, 473			
Nevada					2,800			
New Jersey			53, 142		181,650			
New York	95,026	5,806	92,849	51,669	2, 419, 121			
North Carolina					23, 153			
Ohio	32, 163	46,786	630, 325	56,068	3, 201, 718			
Oklahoma	4,570			2,061	50, 541			
Oregon					20,133			
Pennsylvania	4,419	42,092	2, 461, 426	98, 904	5, 420, 287			
Rhode Island	1		1,190		71 004			
South Carolina	J		1,190		71,664			
South Dakota	180		54,750		86,605			
Tennessee	3,045	2,264	108,860	700	482, 033			
Texas	8,765	2,325	23, 432	8,000	228,662			
Utah			82, 840		186,663			
Vermont	385		125		225, 703			
Virginia			220,001	11, 318	534, 113			
Washington			22, 239	5,505	213, 814			
West Virginia		163	268, 059		616, 366			
Wisconsin	44, 234	59,573	50, 946	7,442	1, 351, 058			
Wyoming			4,000		6,340			
Total	1,096,729	508, 157	5, 271, 252	492, 384	30, 231, 003			
	,,,		,,	,				

The following table shows the production of limestone in the United States from 1898 to 1902, by States:

Value of limestone, 1898-1902, by States.

The second secon							
State.	1898.	1899.	1900.	1901.	1902.		
Alabama	\$242, 295	\$364,636	\$533,608	\$619, 423	\$759,617		
Arizona	1,782	960	165	300			
Arkansas	54,373	71,965	71, 407	68, 319	113, 163		
California	229,729	287, 295	407, 489	645, 455	496, 843		
Colorado	109,310	96, 456	160, 587	245, 799	203,700		
Connecticut	142,057	162,388	148,060	140, 424	205, 371		
Florida	91,330	44,002	128,381	51,870	63, 571		
Georgia	57,803	29,786	54, 451	85, 629	111,589		
Idaho	3,080	3, 325	34, 587	21,251	15,074		
Illinois	1, 421, 072	2, 065, 483	1, 881, 151	2, 793, 837	3, 222, 608		
Indiana	1, 686, 572	2, 173, 833	2, 344, 818	2, 993, 186	2, 865, 691		
Iowa	524, 546	785, 576	586,410	777, 484	649, 984		
Kansas	305, 605	379,001	339, 466	478, 986	670, 536		
Kentucky	83, 960	178,861	178, 252	199, 567	593, 747		
Maine	1, 283, 468	1,028,375	691, 312	715, 272	745, 132		
Maryland	433, 653	235, 225	317, 207	382, 381	453, 030		
Massachusetts	174, 822	168, 147	209, 359	244, 039	339, 349		
Michigan	271,523	371,210	425, 636	565, 931	621, 380		
Minnesota	345, 685	496, 462	441, 554	522,778	830, 857		
Missouri	735, 275	977, 399	1,079,343	1,362,272	1,697,139		
Montana	63, 196	113,718	141,093	143,866	104,725		
Nebraska	78, 493	125, 017	107, 305	154, 717	145, 473		
Nevada		***************************************	***********		2,800		
New Jersey	146,611	153, 025	170,006	309,738	181,650		
New York	1,533,936	1,545,699	1,730,162	1,738,716	2, 419, 121		
North Carolina	1,605	1 700 004	1 000 007	8,266	23, 153		
Ohio	1,673,160	1,793,604	1,969,387	2,606,502	3, 201, 718		
Oklahoma	3,000	50, 550	25, 586	32, 497	50, 541		
Oregon	7,480	8,000	10, 900	24, 520 5, 081, 387	20, 133 5, 420, 287		
Pennsylvania	2,746,256	3, 088, 583	3,800,318		0, 420, 201		
Rhode Island	10, 215 34, 000	18, 239 17, 650	16, 828 38, 415	38, 030 28, 500	71,664		
South Carolina	26, 858	45, 808	47, 762	53, 780	86, 605		
Tennessee	182, 402	208, 097	238, 505	330, 927	482, 033		
Texas	70, 321	100, 025	124, 728	209, 658	228, 662		
Utah	11, 721	6, 381	12,749	78, 900	186, 663		
Vermont	174, 150	282, 173	188, 100	205, 138	225, 703		
Virginia	182, 852	255, 640	403, 318	539, 128	534, 113		
Washington	140, 239	139, 339	249, 163	234, 587	213, 814		
West Virginia	56, 167	58, 802	53, 701	447, 049	616, 366		
Wisconsin	698, 454	826, 486	989, 685	1, 225, 448	1, 351, 058		
Wyoming.	000, 101	742	3, 065	1, 340	6, 340		
1,2					0,010		
Total	16,039,056	18, 757, 963	20, 354, 019	26, 406, 897	30, 231, 003		

The following table shows the quantity and value of the blast-furnace flux produced in 1902, by States:

Production of blast-furnace flux in 1902, by States.

State.	Quantity.	Value.	State.	Quantity.	Value.
	Long tons.			Long tons.	1000
Alabama	1,001,884	\$465,065	New York	178,019	92,849
California	3,500	5, 250	Ohio	1,559,933	630, 325
Colorado	402, 735	155, 484	Pennsylvania	5, 645, 857	2, 461, 426
Connecticut	2,942	1,472	Rhode Island	950	1,190
Georgia	14, 400	5,760	South Dakota	97,768	54,750
Idaho	2,025	2,025	Tennessee	284, 895	108,860
Illinois	483, 348	214, 881	Texas	33, 393	23, 432
Indiana	438,717	187, 265	Utah	113, 194	82, 840
Kentucky	36, 354	15, 487	Vermont	250-	125
Maine	2,000	1,000	Virginia	565, 704	220,001
Maryland	3,654	3, 263	Washington	23,917	22, 239
Massachusetts	2,732	1,398	West Virginia	740,901	268, 059
Michigan	58, 567	32, 246	Wisconsin	89,309	50,946
Missouri	25, 115	14,065	Wyoming	10,000	4,000
Montana	198,000	88,000	metal.	10 100 0/0	E 071 050
Nebraska	8,814	4, 407	Total	12, 139, 248	5, 271, 252
New Jersey	110, 371	53, 142			

This is the first attempt that has been made to collect the statistics of the quantity of stone used by blast furnaces; the estimates formerly used were based on an average value of 50 cents per ton. This value has, however, been found to be rather high for some localities. The figures here given were obtained directly from the quarry, whether the quarries were owned by the blast-furnace operator or whether the stone was sold to the furnace. The value given is the value of the stone at the quarry.