

# Virginia: 2002

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## 2002 Economic Census

*Construction*

Geographic Area Series



U S C E N S U S B U R E A U

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



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-- Not applicable for this report.	

**Table 1. Employment Statistics for Establishments by State: 2002**

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS code	Industry	Number of establishments	Number of employees		Number of construction workers in				Payroll (thousand dollars)		Relative standard error of estimate (percent) for column—
			Total	Construction workers	March	May	August	November	Total	Construction workers	
<b>VIRGINIA</b>											
<b>23</b>	<b>Construction .....</b>	<b>20 709</b>	<b>211 849</b>	<b>155 344</b>	<b>150 880</b>	<b>155 638</b>	<b>160 576</b>	<b>154 281</b>	<b>6 937 460</b>	<b>4 500 989</b>	<b>1</b>
236	Construction of buildings .....	6 313	50 850	31 320	31 275	31 199	32 420	30 385	1 860 130	929 696	3
2361	Residential building construction ..	5 424	31 790	18 292	17 770	18 428	19 118	17 851	1 098 246	509 630	3
23611	Residential building construction ..	5 424	31 790	18 292	17 770	18 428	19 118	17 851	1 098 246	509 630	3
236115	New single-family housing construction (except operative builders) .....	1 774	8 910	6 047	5 882	6 120	6 335	5 852	275 340	157 808	6
236116	New multifamily housing construction (except operative builders) .....	103	869	591	535	545	673	611	32 910	16 735	14
236117	New housing operative builders .....	875	11 105	4 530	4 411	4 474	4 709	4 526	496 764	167 148	4
236118	Residential remodelers .....	2 671	10 906	7 124	6 943	7 289	7 401	6 862	293 232	167 938	5
2362	Nonresidential building construction .....	889	19 060	13 028	13 505	12 771	13 302	12 534	761 884	420 066	5
23621	Industrial building construction ..	38	980	764	799	794	758	706	25 378	17 638	22
236210	Industrial building construction ..	38	980	764	799	794	758	706	25 378	17 638	22
23622	Commercial and institutional building construction .....	851	18 080	12 264	12 706	11 978	12 544	11 828	736 505	402 428	5
236220	Commercial and institutional building construction .....	851	18 080	12 264	12 706	11 978	12 544	11 828	736 505	402 428	5
237	Heavy and civil engineering construction .....	1 288	30 753	24 103	23 188	24 669	24 750	23 806	1 078 735	747 472	3
2371	Utility system construction .....	583	13 300	10 614	10 668	10 854	10 628	10 308	475 188	350 902	5
23711	Water and sewer line and related structures construction .....	459	7 902	6 350	6 329	6 516	6 474	6 082	270 259	197 736	8
237110	Water and sewer line and related structures construction .....	459	7 902	6 350	6 329	6 516	6 474	6 082	270 259	197 736	8
23712	Oil and gas pipeline and related structures construction .....	11	672	598	592	598	610	593	22 463	18 691	—
237120	Oil and gas pipeline and related structures construction .....	11	672	598	592	598	610	593	22 463	18 691	—
23713	Power and communication line and related structures construction .....	113	4 727	3 666	3 747	3 740	3 543	3 632	182 466	134 475	2
237130	Power and communication line and related structures construction .....	113	4 727	3 666	3 747	3 740	3 543	3 632	182 466	134 475	2
2372	Land subdivision .....	120	1 054	261	249	257	250	287	39 579	10 028	10
23721	Land subdivision .....	120	1 054	261	249	257	250	287	39 579	10 028	10
237210	Land subdivision .....	120	1 054	261	249	257	250	287	39 579	10 028	10
2373	Highway, street, and bridge construction .....	366	14 080	11 476	10 556	11 827	12 036	11 484	467 390	318 509	4
23731	Highway, street, and bridge construction .....	366	14 080	11 476	10 556	11 827	12 036	11 484	467 390	318 509	4
237310	Highway, street, and bridge construction .....	366	14 080	11 476	10 556	11 827	12 036	11 484	467 390	318 509	4
2379	Other heavy and civil engineering construction .....	219	2 320	1 752	1 714	1 731	1 836	1 727	96 578	68 033	11
23799	Other heavy and civil engineering construction .....	219	2 320	1 752	1 714	1 731	1 836	1 727	96 578	68 033	11
237990	Other heavy and civil engineering construction ..	219	2 320	1 752	1 714	1 731	1 836	1 727	96 578	68 033	11
238	Specialty trade contractors .....	13 108	130 246	99 921	96 417	99 769	103 407	100 090	3 998 596	2 823 820	2
2381	Foundation, structure, and building exterior contractors .....	3 408	32 405	26 089	24 481	25 670	27 380	26 824	875 836	639 698	4
23811	Poured concrete foundation and structure contractors .....	530	6 914	5 971	5 819	5 608	6 256	6 199	210 968	164 962	8
238110	Poured concrete foundation and structure contractors ..	530	6 914	5 971	5 819	5 608	6 256	6 199	210 968	164 962	8
23812	Structural steel and precast concrete contractors .....	65	2 136	1 802	1 679	1 831	1 928	1 769	59 945	47 270	21
238120	Structural steel and precast concrete contractors .....	65	2 136	1 802	1 679	1 831	1 928	1 769	59 945	47 270	21
23813	Framing contractors .....	571	3 784	2 958	2 692	2 841	3 187	3 112	95 663	64 405	13
238130	Framing contractors .....	571	3 784	2 958	2 692	2 841	3 187	3 112	95 663	64 405	13
23814	Masonry contractors .....	1 101	11 150	9 620	9 069	9 485	9 948	9 977	279 545	220 284	8
238140	Masonry contractors .....	1 101	11 150	9 620	9 069	9 485	9 948	9 977	279 545	220 284	8
23815	Glass and glazing contractors ..	110	1 166	764	766	775	732	785	41 489	24 079	13
238150	Glass and glazing contractors .....	110	1 166	764	766	775	732	785	41 489	24 079	13
23816	Roofing contractors .....	679	4 720	3 526	3 303	3 544	3 689	3 568	128 396	83 637	8
238160	Roofing contractors .....	679	4 720	3 526	3 303	3 544	3 689	3 568	128 396	83 637	8
23817	Siding contractors .....	215	1 756	878	551	995	1 027	940	32 868	17 994	8
238170	Siding contractors .....	215	1 756	878	551	995	1 027	940	32 868	17 994	8

See footnotes at end of table.

**Table 1. Employment Statistics for Establishments by State: 2002—Con.**

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS code	Industry	Number of establishments	Number of employees		Number of construction workers in				Payroll (thousand dollars)		Relative standard error of estimate (percent) for column—
			Total	Construction workers	March	May	August	November	Total	Construction workers	
			A	B	C	D	E	F	G	H	
<b>VIRGINIA—Con.</b>											
<b>23</b>	<b>Construction—Con.</b>										
238	Specialty trade contractors—Con.										
2381	Foundation, structure, and building exterior contractors—Con.										
23819	Other foundation, structure, and building exterior contractors...	137	779	570	602	592	612	475	26 961	17 068	16
238190	Other foundation, structure, and building exterior contractors .....	137	779	570	602	592	612	475	26 961	17 068	16
2382	Building equipment contractors ...	4 251	53 530	40 914	40 049	40 968	42 049	40 589	1 844 130	1 299 670	2
23821	Electrical Contractors .....	1 543	20 608	16 150	15 849	16 239	16 383	16 127	716 618	500 683	3
238210	Electrical Contractors .....	1 543	20 608	16 150	15 849	16 239	16 383	16 127	716 618	500 683	3
23822	Plumbing, heating, and air-conditioning contractors .....	2 547	29 554	21 978	21 324	21 947	22 876	21 766	1 000 173	700 273	3
238220	Plumbing, heating, and air-conditioning contractors .....	2 547	29 554	21 978	21 324	21 947	22 876	21 766	1 000 173	700 273	3
23829	Other building equipment contractors .....	161	3 368	2 786	2 876	2 782	2 790	2 695	127 339	98 714	7
238290	Other building equipment contractors .....	161	3 368	2 786	2 876	2 782	2 790	2 695	127 339	98 714	7
2383	Building finishing contractors .....	3 615	27 511	19 792	19 636	19 790	20 245	19 498	772 390	523 695	4
23831	Drywall and insulation contractors .....	399	7 363	6 236	6 373	6 208	6 384	5 977	233 877	175 091	7
238310	Drywall and insulation contractors .....	399	7 363	6 236	6 373	6 208	6 384	5 977	233 877	175 091	7
23832	Painting and wall covering contractors .....	1 214	7 882	5 828	5 803	5 971	5 892	5 645	198 235	140 630	9
238320	Painting and wall covering contractors .....	1 214	7 882	5 828	5 803	5 971	5 892	5 645	198 235	140 630	9
23833	Flooring contractors .....	582	2 992	1 984	2 087	1 900	1 966	1 985	87 725	48 810	13
238330	Flooring contractors .....	582	2 992	1 984	2 087	1 900	1 966	1 985	87 725	48 810	13
23834	Tile and terrazzo contractors .....	249	1 505	1 142	1 038	1 117	1 201	1 214	50 011	32 130	10
238340	Tile and terrazzo contractors .....	249	1 505	1 142	1 038	1 117	1 201	1 214	50 011	32 130	10
23835	Finish carpentry contractors .....	1 060	6 237	3 482	3 254	3 552	3 634	3 487	157 078	94 540	10
238350	Finish carpentry contractors .....	1 060	6 237	3 482	3 254	3 552	3 634	3 487	157 078	94 540	10
23839	Other building finishing contractors .....	111	1 532	1 120	1 082	1 042	1 168	1 190	45 463	32 494	16
238390	Other building finishing contractors .....	111	1 532	1 120	1 082	1 042	1 168	1 190	45 463	32 494	16
2389	Other specialty trade contractors .....	1 834	16 799	13 126	12 251	13 341	13 733	13 178	506 240	360 757	6
23891	Site preparation contractors .....	739	9 006	7 178	6 846	7 119	7 357	7 388	294 777	214 564	7
238910	Site preparation contractors .....	739	9 006	7 178	6 846	7 119	7 357	7 388	294 777	214 564	7
23899	All other specialty trade contractors .....	1 094	7 793	5 948	5 405	6 222	6 377	5 790	211 463	146 193	11
238990	All other specialty trade contractors .....	1 094	7 793	5 948	5 405	6 222	6 377	5 790	211 463	146 193	11

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 2. General Statistics for Establishments by State: 2002**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS code	Industry	E <sup>1</sup>	Value of business done <sup>2</sup>	Value of construction work <sup>2</sup>	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Total rental costs	Capital expenditures, except land	Gross book value of depreciable assets, end-of-year
<b>VIRGINIA</b>											
<b>23</b>	<b>Construction .....</b>	<b>1</b>	<b>33 667 129</b>	<b>33 347 592</b>	<b>24 332 335</b>	<b>15 270 789</b>	<b>9 381 083</b>	<b>9 015 257</b>	<b>507 052</b>	<b>565 053</b>	<b>4 989 145</b>
236	Construction of buildings .....	1	16 014 905	15 897 627	9 055 536	5 421 377	3 751 438	6 842 091	128 529	124 513	779 546
2361	Residential building construction ..	1	9 550 293	9 467 694	6 471 219	3 767 758	2 786 061	2 996 475	59 910	78 811	474 849
23611	Residential building construction .....	1	9 550 293	9 467 694	6 471 219	3 767 758	2 786 061	2 996 475	59 910	78 811	474 849
236115	New single-family housing construction (except operative builders) .....	2	2 041 865	2 030 808	1 372 021	786 352	596 727	658 787	21 983	26 986	150 426
236116	New multifamily housing construction (except operative builders) .....	2	284 318	275 778	132 880	86 559	54 862	142 897	\$2 442	2 431	24 872
236117	New housing operative builders .....	-	5 857 004	5 802 356	4 010 488	2 316 065	1 749 070	1 791 869	22 795	26 446	179 175
236118	Residential remodelers .....	3	1 367 106	1 358 752	955 830	578 781	385 402	402 922	12 690	22 948	120 376
2362	Nonresidential building construction .....	1	6 464 612	6 429 933	2 584 317	1 653 618	965 377	3 845 616	68 619	45 702	304 697
23621	Industrial building construction ..	1	151 221	142 424	78 337	49 816	37 318	64 086	4 536	2 610	18 177
236210	Industrial building construction .....	1	151 221	142 424	78 337	49 816	37 318	64 086	4 536	2 610	18 177
23622	Commercial and institutional building construction .....	1	6 313 390	6 287 509	2 505 979	1 603 802	928 059	3 781 530	64 083	43 092	286 520
236220	Commercial and institutional building construction .....	1	6 313 390	6 287 509	2 505 979	1 603 802	928 059	3 781 530	64 083	43 092	286 520
237	Heavy and civil engineering construction .....	1	4 847 322	4 762 245	3 796 128	2 425 790	1 455 415	966 117	126 064	158 388	1 879 020
2371	Utility system construction .....	1	1 588 648	D	1 354 826	966 519	D	D	42 800	69 316	765 535
23711	Water and sewer line and related structures construction .....	1	1 028 075	1 026 948	878 809	579 261	300 674	148 139	26 878	52 874	529 091
237110	Water and sewer line and related structures construction .....	1	1 028 075	1 026 948	878 809	579 261	300 674	148 139	26 878	52 874	529 091
23712	Oil and gas pipeline and related structures construction .....	1	62 329	D	D	42 250	D	D	2 114	3 417	29 891
237120	Oil and gas pipeline and related structures construction .....	1	62 329	D	D	42 250	D	D	2 114	3 417	29 891
23713	Power and communication line and related structures construction .....	1	498 245	D	D	345 008	D	D	13 808	13 025	206 554
237130	Power and communication line and related structures construction .....	1	498 245	D	D	345 008	D	D	13 808	13 025	206 554
2372	Land subdivision .....	1	391 860	D	315 006	287 153	D	D	2 082	3 607	26 567
23721	Land subdivision .....	1	391 860	D	315 006	287 153	D	D	2 082	3 607	26 567
237210	Land subdivision .....	1	391 860	D	315 006	287 153	D	D	2 082	3 607	26 567
2373	Highway, street, and bridge construction .....	-	2 463 678	2 397 139	1 768 696	939 656	895 580	628 442	67 718	70 985	944 888
23731	Highway, street, and bridge construction .....	-	2 463 678	2 397 139	1 768 696	939 656	895 580	628 442	67 718	70 985	944 888
237310	Highway, street, and bridge construction .....	-	2 463 678	2 397 139	1 768 696	939 656	895 580	628 442	67 718	70 985	944 888
2379	Other heavy and civil engineering construction .....	1	403 136	401 128	357 599	232 462	127 146	43 528	13 464	14 479	142 029
23799	Other heavy and civil engineering construction .....	1	403 136	401 128	357 599	232 462	127 146	43 528	13 464	14 479	142 029
237990	Other heavy and civil engineering construction .....	1	403 136	401 128	357 599	232 462	127 146	43 528	13 464	14 479	142 029
238	Specialty trade contractors .....	1	12 804 902	12 687 720	11 480 671	7 423 622	4 174 230	1 207 049	252 460	282 153	2 330 578
2381	Foundation, structure, and building exterior contractors .....	1	2 921 512	2 908 264	2 600 685	1 559 748	1 054 185	307 579	57 422	59 348	392 440
23811	Poured concrete foundation and structure contractors .....	2	753 875	751 727	695 491	394 584	303 056	56 235	13 067	16 632	118 121
238110	Poured concrete foundation and structure contractors .....	2	753 875	751 727	695 491	394 584	303 056	56 235	13 067	16 632	118 121
23812	Structural steel and precast concrete contractors .....	1	\$288 436	\$288 182	\$255 748	127 661	\$128 342	\$32 434	8 427	3 984	38 013
238120	Structural steel and precast concrete contractors .....	1	\$288 436	\$288 182	\$255 748	127 661	\$128 342	\$32 434	8 427	3 984	38 013
23813	Framing contractors .....	1	312 239	309 938	218 271	165 324	55 248	91 667	4 530	5 684	23 862
238130	Framing contractors .....	1	312 239	309 938	218 271	165 324	55 248	91 667	4 530	5 684	23 862
23814	Masonry contractors .....	1	721 512	721 345	682 326	450 842	231 651	39 019	15 568	17 138	99 505
238140	Masonry contractors .....	1	721 512	721 345	682 326	450 842	231 651	39 019	15 568	17 138	99 505
23815	Glass and glazing contractors ..	2	148 640	146 010	136 848	76 318	63 159	9 162	4 486	2 849	13 720
238150	Glass and glazing contractors .....	2	148 640	146 010	136 848	76 318	63 159	9 162	4 486	2 849	13 720
23816	Roofing contractors .....	1	431 919	430 297	394 042	213 820	181 844	36 255	6 219	8 280	70 542
238160	Roofing contractors .....	1	431 919	430 297	394 042	213 820	181 844	36 255	6 219	8 280	70 542
23817	Siding contractors .....	-	194 640	193 785	153 771	78 842	75 784	40 014	3 089	3 492	20 953
238170	Siding contractors .....	-	194 640	193 785	153 771	78 842	75 784	40 014	3 089	3 492	20 953
23819	Other foundation, structure, and building exterior contractors .....	1	70 253	66 980	64 188	52 358	15 103	2 792	2 036	1 289	7 724
238190	Other foundation, structure, and building exterior contractors .....	1	70 253	66 980	64 188	52 358	15 103	2 792	2 036	1 289	7 724

See footnotes at end of table.

**Table 2. General Statistics for Establishments by State: 2002—Con.**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS code	Industry	E <sup>1</sup>	Value of business done <sup>2</sup>	Value of construction work <sup>2</sup>	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Total rental costs	Capital expenditures, except land	Gross book value of depreciable assets, end-of-year
<b>VIRGINIA—Con.</b>											
<b>23</b>	<b>Construction—Con.</b>										
238	Specialty trade contractors—Con.										
2382	Building equipment contractors . . .	1	5 505 384	5 455 585	5 057 860	3 278 563	1 829 096	397 725	91 676	85 940	687 610
23821	Electrical Contractors . . . . .	—	2 033 398	2 022 317	1 901 836	1 267 592	645 325	120 482	35 714	29 101	238 454
238210	Electrical Contractors . . . . .	—	2 033 398	2 022 317	1 901 836	1 267 592	645 325	120 482	35 714	29 101	238 454
23822	Plumbing, heating, and air-conditioning contractors . . . . .	1	3 068 896	3 036 417	2 782 332	1 740 502	1 074 309	254 085	47 653	49 388	400 828
238220	Plumbing, heating, and air-conditioning contractors . . . . .	1	3 068 896	3 036 417	2 782 332	1 740 502	1 074 309	254 085	47 653	49 388	400 828
23829	Other building equipment contractors . . . . .	—	403 090	396 851	373 693	270 469	109 462	23 159	8 309	7 452	48 329
238290	Other building equipment contractors . . . . .	—	403 090	396 851	373 693	270 469	109 462	23 159	8 309	7 452	48 329
2383	Building finishing contractors . . . . .	2	2 575 951	2 555 941	2 234 998	1 463 068	791 940	320 944	44 491	38 675	279 458
23831	Drywall and insulation contractors . . . . .	2	815 033	813 914	714 201	451 632	263 687	99 713	14 276	11 820	74 059
238310	Drywall and insulation contractors . . . . .	2	815 033	813 914	714 201	451 632	263 687	99 713	14 276	11 820	74 059
23832	Painting and wall covering contractors . . . . .	2	521 071	519 421	458 534	344 583	115 602	60 886	12 004	11 739	73 637
238320	Painting and wall covering contractors . . . . .	2	521 071	519 421	458 534	344 583	115 602	60 886	12 004	11 739	73 637
23833	Flooring contractors . . . . .	2	332 318	326 150	273 411	159 433	120 147	52 738	5 770	3 777	36 590
238330	Flooring contractors . . . . .	2	332 318	326 150	273 411	159 433	120 147	52 738	5 770	3 777	36 590
23834	Tile and terrazzo contractors . . .	1	157 905	157 584	147 204	92 561	54 964	10 380	1 453	3 119	19 922
238340	Tile and terrazzo contractors . . .	1	157 905	157 584	147 204	92 561	54 964	10 380	1 453	3 119	19 922
23835	Finish carpentry contractors . . .	1	641 779	632 301	539 464	328 199	220 744	92 836	8 413	6 739	66 463
238350	Finish carpentry contractors . . .	1	641 779	632 301	539 464	328 199	220 744	92 836	8 413	6 739	66 463
23839	Other building finishing contractors . . . . .	1	107 845	106 572	102 182	86 660	16 795	4 389	2 574	1 480	8 787
238390	Other building finishing contractors . . . . .	1	107 845	106 572	102 182	86 660	16 795	4 389	2 574	1 480	8 787
2389	Other specialty trade contractors . .	1	1 802 054	1 767 930	1 587 129	1 122 244	499 009	180 801	58 871	98 189	971 070
23891	Site preparation contractors . . . .	1	1 083 338	1 073 762	956 184	704 183	261 577	117 578	39 720	71 895	707 214
238910	Site preparation contractors . . . .	1	1 083 338	1 073 762	956 184	704 183	261 577	117 578	39 720	71 895	707 214
23899	All other specialty trade contractors . . . . .	2	718 716	694 168	630 945	418 061	237 432	63 223	19 151	26 295	263 856
238990	All other specialty trade contractors . . . . .	2	718 716	694 168	630 945	418 061	237 432	63 223	19 151	26 295	263 856

<sup>1</sup>Construction receipts were obtained from census respondent forms. Data for establishments whose respondent forms were not received at the time data were tabulated were calculated using industry averages and imputation for nonresponse. The following symbols are shown where estimated imputation-based data on construction receipts account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>For the 2002 Economic Census, the definitions of value of business done and value of construction work have been modified from the 1997 Economic Census definitions. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 3. Detailed Statistics for Establishments: 2002**

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Item	Value	Relative standard error of estimate (percent)
<b>VIRGINIA</b>		
All establishments . . . . . number . . . . .	20 709	3
All employees . . . . . number . . . . .	211 849	1
Construction workers in March . . . . . number . . . . .	150 880	1
Construction workers in May . . . . . number . . . . .	155 638	1
Construction workers in August . . . . . number . . . . .	160 576	1
Construction workers in November . . . . . number . . . . .	154 281	1
Average number of construction workers . . . . . number . . . . .	155 344	1
Other employees in March . . . . . number . . . . .	56 595	2
Other employees in May . . . . . number . . . . .	55 466	2
Other employees in August . . . . . number . . . . .	57 374	2
Other employees in November . . . . . number . . . . .	56 586	2
Average number of other employees . . . . . number . . . . .	56 505	1
Total payroll . . . . . \$1,000 . . . . .	6 937 460	1
Construction workers . . . . . \$1,000 . . . . .	4 500 989	1
Other employees . . . . . \$1,000 . . . . .	2 436 472	1
First-quarter payroll, all employees . . . . . \$1,000 . . . . .	1 649 004	1
Fringe benefits, all employees . . . . . \$1,000 . . . . .	1 296 391	1
Legally required expenditures . . . . . \$1,000 . . . . .	821 713	1
Voluntary expenditures . . . . . \$1,000 . . . . .	474 678	1
Value of business done <sup>1</sup> . . . . . \$1,000 . . . . .	33 667 129	1
Value of construction work <sup>1</sup> . . . . . \$1,000 . . . . .	33 347 592	1
Value of construction work on government owned projects . . . . . \$1,000 . . . . .	8 115 252	1
Value of construction work on federally owned projects . . . . . \$1,000 . . . . .	2 613 608	2
Value of construction work on state and locally owned projects . . . . . \$1,000 . . . . .	5 501 643	2
Value of construction work on privately owned projects . . . . . \$1,000 . . . . .	25 232 340	2
Other business receipts . . . . . \$1,000 . . . . .	319 537	5
Value of construction work subcontracted in from others . . . . . \$1,000 . . . . .	11 000 812	2
Net value of construction work . . . . . \$1,000 . . . . .	24 332 335	1
Value added . . . . . \$1,000 . . . . .	15 270 789	1
Selected costs . . . . . \$1,000 . . . . .	18 396 340	2
Materials, parts, and supplies . . . . . \$1,000 . . . . .	8 929 295	2
Construction work subcontracted out to others . . . . . \$1,000 . . . . .	9 015 257	2
Selected power, fuels, and lubricants . . . . . \$1,000 . . . . .	451 788	2
Purchased electricity . . . . . \$1,000 . . . . .	80 120	3
Natural gas and manufactured gas . . . . . \$1,000 . . . . .	33 606	3
Gasoline and diesel fuel . . . . . \$1,000 . . . . .	316 076	2
On-highway use of gasoline and diesel fuel . . . . . \$1,000 . . . . .	239 239	2
Off-highway use of gasoline and diesel fuel . . . . . \$1,000 . . . . .	76 837	3
All other fuels and lubricants . . . . . \$1,000 . . . . .	21 986	2
Total rental costs . . . . . \$1,000 . . . . .	507 052	2
Machinery and equipment . . . . . \$1,000 . . . . .	323 808	3
Buildings . . . . . \$1,000 . . . . .	183 244	3
Selected purchased services . . . . . \$1,000 . . . . .	925 964	3
Communication services . . . . . \$1,000 . . . . .	262 201	1
Repairs to buildings and other structures . . . . . \$1,000 . . . . .	138 791	3
Repairs to machinery and equipment . . . . . \$1,000 . . . . .	252 232	3
Legal services . . . . . \$1,000 . . . . .	52 138	2
Accounting, auditing, and bookkeeping services . . . . . \$1,000 . . . . .	108 094	16
Advertising and promotional services . . . . . \$1,000 . . . . .	112 508	6
Beginning-of-year gross book value of depreciable assets . . . . . \$1,000 . . . . .	4 622 325	2
Capital expenditures, other than land . . . . . \$1,000 . . . . .	565 053	3
Retirements and disposition of depreciable assets . . . . . \$1,000 . . . . .	198 233	3
End-of-year gross book value of depreciable assets . . . . . \$1,000 . . . . .	4 989 145	2
Depreciation charges during year . . . . . \$1,000 . . . . .	573 537	4
Establishments with inventories . . . . . number . . . . .	3 138	—
Value of construction work for establishments with inventories . . . . . \$1,000 . . . . .	8 531 446	—
End-of-2002, inventories of materials and supplies . . . . . \$1,000 . . . . .	577 170	8
End-of-2001, inventories of materials and supplies . . . . . \$1,000 . . . . .	457 687	6
Establishments with no inventories . . . . . number . . . . .	16 148	—
Value of construction work for establishments with no inventories . . . . . \$1,000 . . . . .	23 476 145	—
Establishments not reporting inventories . . . . . number . . . . .	1 424	—
Value of construction work for establishments not reporting inventores . . . . . \$1,000 . . . . .	1 340 002	—

<sup>1</sup>For the 2002 Economic Census, the definitions of value of business done and value of construction work have been modified from the 1997 Economic Census definitions. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 4. Selected Statistics for Establishments by Employment Size Class: 2002**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Employment size class	E <sup>1</sup>	Number of establishments	Total number of employees	Total payroll	Value of business done <sup>2</sup>	Value of construction work <sup>2</sup>	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—
	A	B	C	D	E	F	G	H	I	J	C
<b>VIRGINIA</b>											
All establishments .....	1	20 709	211 849	6 937 460	33 667 129	33 347 592	24 332 335	15 270 789	9 381 083	9 015 257	1
Establishments with—											
1 to 4 employees .....	3	11 926	24 428	542 392	3 276 948	3 239 595	2 473 659	1 490 178	1 020 835	765 936	4
5 to 9 employees .....	2	4 285	27 681	708 396	3 394 254	3 369 193	2 588 308	1 526 007	1 087 361	780 885	5
10 to 19 employees .....	2	2 445	32 171	1 013 394	4 081 115	4 059 115	3 164 943	2 034 325	1 152 619	894 171	5
20 to 49 employees .....	1	1 346	40 294	1 430 002	6 147 801	6 084 036	4 490 993	2 827 607	1 727 151	1 593 043	3
50 to 99 employees .....	—	461	31 873	1 184 900	5 427 978	5 380 353	3 999 818	2 464 701	1 582 742	1 380 535	2
100 to 249 employees .....	1	179	26 233	996 012	5 205 946	5 144 273	3 462 807	2 355 655	1 168 825	1 681 466	1
250 to 499 employees .....	—	53	18 107	671 516	4 349 411	4 297 491	2 870 114	1 864 221	1 057 813	1 427 377	1
500 to 999 employees .....	—	13	D	D	D	D	D	D	D	D	S
1,000 employees or more .....	—	2	D	D	D	D	D	D	D	D	S

<sup>1</sup>Construction receipts were obtained from census respondent forms. Data for establishments whose respondent forms were not received at the time data were tabulated were calculated using industry averages and imputation for nonresponse. The following symbols are shown where estimated imputation-based data on construction receipts account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>For the 2002 Economic Census, the definitions of value of business done and value of construction work have been modified from the 1997 Economic Census definitions. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.



**Table 5. Selected Statistics for Establishments by Dollar Value of Business Done Size Class: 2002**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Dollar value size class	E <sup>1</sup>	Number of establishments	Total number of employees	Total payroll	Value of business done <sup>2</sup>	Value of construction work <sup>2</sup>	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—
	A	B	C	D	E	F	G	H	I	J	G
<b>VIRGINIA</b>											
All establishments .....	1	20 709	211 849	6 937 460	33 667 129	33 347 592	24 332 335	15 270 789	9 381 083	9 015 257	1
Establishments with value of business done—											
Less than \$25,000 .....	7	300	312	2 029	6 166	6 165	5 739	4 257	1 482	426	25
\$25,000 to \$49,999 .....	6	1 000	1 136	12 389	36 833	36 142	32 533	22 888	10 337	3 609	14
\$50,000 to \$99,999 .....	3	2 611	4 245	61 437	200 424	198 366	176 323	115 918	62 463	22 042	9
\$100,000 to \$249,999 .....	3	5 308	14 183	257 249	866 361	861 747	762 537	517 942	249 208	99 210	6
\$250,000 to \$499,999 .....	3	3 859	18 440	407 623	1 351 520	1 341 782	1 162 959	761 279	411 418	178 823	6
\$500,000 to \$999,999 .....	2	2 990	21 585	592 635	2 148 957	2 131 014	1 744 273	1 090 066	672 151	386 740	6
\$1,000,000 to \$2,499,999 .....	2	2 458	32 388	1 033 570	3 801 068	3 756 812	3 093 490	1 883 354	1 254 392	663 322	5
\$2,500,000 to \$4,999,999 .....	1	1 019	24 611	856 861	3 550 416	3 520 701	2 797 083	1 815 030	1 011 768	723 618	5
\$5,000,000 to \$9,999,999 .....	1	637	27 918	1 035 974	4 325 602	4 277 971	3 338 363	2 064 605	1 321 390	939 608	4
\$10,000,000 or more .....	—	528	67 031	2 677 693	17 379 781	17 216 893	11 219 034	6 995 449	4 386 474	5 997 858	1

<sup>1</sup>Construction receipts were obtained from census respondent forms. Data for establishments whose respondent forms were not received at the time data were tabulated were calculated using industry averages and imputation for nonresponse. The following symbols are shown where estimated imputation-based data on construction receipts account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>For the 2002 Economic Census, the definitions of value of business done and value of construction work have been modified from the 1997 Economic Census definitions. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 6. Value of Construction Work for Establishments by Geographic Location of Construction Work: 2002**

[Thousand dollars unless otherwise noted. This table presents selected statistics for establishments according to the geographic location of construction work. Data are not shown for those geographic locations in which construction work is relatively insignificant. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Geographic location of construction work	Value of construction work <sup>1</sup>	Relative standard error of estimate (percent)
<b>VIRGINIA</b>		
Total .....	33 347 592	1
Construction work done in District of Columbia .....	712 623	2
Construction work done in Maryland .....	1 273 280	2
Construction work done in North Carolina .....	506 260	3
Construction work done in South Carolina .....	214 257	1
Construction work done in Virginia .....	29 629 086	1

<sup>1</sup>For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 7. Value of Construction Work for Establishments by Type of Construction: 2002**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Type of construction	Value of construction work <sup>1</sup>				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
<b>VIRGINIA</b>								
Total .....	33 347 592	23 325 595	6 322 368	3 699 628	1	2	2	2
Building construction, total .....	26 306 651	18 497 685	5 257 003	2 551 963	1	2	2	2
Single-family houses, detached and attached .....	12 973 192	10 440 623	1 518 564	1 014 005	2	2	4	5
Single-family houses, detached .....	11 164 856	8 887 554	1 384 783	892 518	2	3	4	5
Single-family houses, attached .....	1 808 336	1 553 069	133 781	121 486	4	4	11	8
Apartment buildings (2 or more units), such as rentals, apartment type condominiums and cooperatives .....	1 412 132	1 017 401	194 565	200 166	9	12	10	10
Manufacturing and industrial warehouses .....	471 103	245 474	143 077	82 552	5	7	9	6
Other manufacturing and light industrial buildings, such as factories, assembly plants, and industrial research laboratories .....	820 790	443 925	231 351	145 514	3	4	5	7
Hotels, motels, and tourist cabins .....	682 553	540 429	84 142	57 982	11	14	11	10
Office buildings .....	3 465 159	1 858 812	1 221 396	384 951	2	3	2	3
Stores, restaurants, and automobile service stations, and other commercial buildings .....	2 002 211	1 148 548	542 684	310 979	3	3	8	6
Commercial warehouses such as distribution buildings and mini-storage .....	314 051	231 493	55 815	26 743	6	7	9	8
Religious buildings .....	436 527	212 706	179 954	43 867	5	3	11	8
Educational buildings .....	1 848 589	1 159 695	583 239	105 655	7	11	5	14
Health care and institutional buildings .....	919 994	535 975	310 220	73 799	4	1	11	5
Other building construction .....	960 349	662 603	191 995	105 751	9	12	2	7
Nonbuilding construction, total .....	5 986 659	3 773 628	1 065 365	1 147 666	2	2	2	4
Highways, streets, and related work, such as installation of guardrails and signs .....	1 723 839	1 113 585	258 949	351 306	3	2	6	8
Private driveways and parking areas .....	434 552	226 725	91 514	116 313	8	9	8	16
Bridges and elevated highways .....	519 080	226 855	246 223	46 002	2	2	4	9
Sewers, water mains, and related facilities .....	1 329 711	999 397	131 964	198 351	3	4	6	9
Sewers, sewer lines, septic systems, and related facilities .....	894 292	683 667	80 018	130 608	4	4	7	13
Water mains, storage, and related facilities .....	435 419	315 730	51 946	67 743	6	6	10	11
Power and communication transmission lines, cables, towers, and related facilities .....	498 876	267 444	101 363	130 068	2	3	2	2
Other nonbuilding construction .....	1 480 602	939 623	235 353	305 626	5	6	6	8
Construction work, nsk .....	1 054 282	1 054 282	—	—	—	—	—	—

<sup>1</sup>For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 8. Value of Business Done for Establishments by Kind-of-Business Activity: 2002**

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kind of business activities	Value of business done <sup>1</sup>	Relative standard error of estimate (percent)
<b>VIRGINIA</b>		
Total .....	33 667 129	1
Building construction, total .....	14 470 463	2
Building construction on land owned by you, for sale .....	5 455 050	3
Building construction on land owned by others .....	6 801 705	3
Remodeling contractor .....	1 790 524	5
Construction management, agency or fee only (for building construction) .....	423 184	37
Heavy construction and civil engineering construction, total .....	4 613 876	3
Subdividing and servicing of raw land into lots, for sale by you .....	471 450	17
Highway and street general contractor .....	952 182	4
Paving contractor -- asphalt or concrete for highways, streets, bridges, or airport runways .....	564 897	4
Heavy construction contractor, such as bridges, tunnels, pipelines, and utility lines .....	1 703 714	3
Cable and conduit laying contractor .....	324 791	3
Excavation work, earthmoving or land clearing contractor, not connected with buildings .....	596 841	10
Special trade contractors, total .....	8 259 535	3
Heating, ventilation and air-conditioning contractor (HVAC) .....	1 321 968	3
Mechanical contractor .....	543 394	2
Plumbing contractor .....	932 240	5
Painting contractor .....	442 587	8
Electric power installation and service contractor, including lighting .....	1 393 675	4
Masonry contractor, brick, block, or stone (except brick paving) .....	559 652	7
Drywall contractor .....	434 735	16
Finish carpentry contractor .....	529 466	9
Framing contractor, except steel .....	353 020	12
Roofing contractor, except sheet metal .....	347 695	6
Asphalt, concrete, and brick paving contractor, residential or commercial driveways and parking areas .....	325 524	11
Concrete Contractor (except paving or foundation) .....	542 370	10
Excavation work: earthmoving or land clearing contractor, connected with buildings .....	533 208	7
All other construction activities .....	4 953 168	3
Other business activities secondary to construction activities, total .....	315 085	5
All other business activities secondary to construction activities .....	315 085	5
Kind of business activity, nsk .....	1 055 002	10

<sup>1</sup>For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.