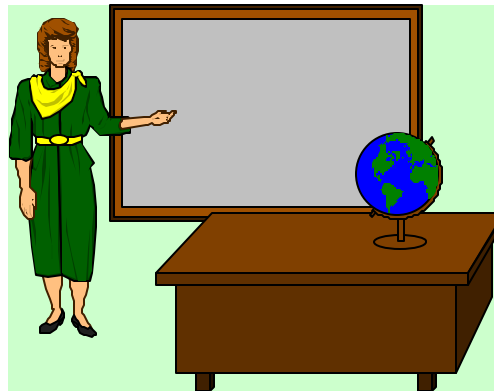


Industry and Occupational Employment Projections: 1998 - 2008

State of Virginia



Virginia Employment Commission
Economic Information Services Division
703 Main Street, Richmond, VA 23219
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For more information about how the projections are done, call Ms. Lynn Bradford at (804) 786-8218. To obtain the projections for other geographical areas or additional copies of these projections, contact the Labor Market and Demographic Analysis Unit of the Economic Information Services Division at (804) 786-8223.

The Virginia Employment Commission is an equal opportunities/program. Auxiliary aids and services are available upon request to individuals with disabilities.

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NONMETROPOLITAN AREAS

Region 1 - Southwest Virginia

Bland County
Buchanan County
Carroll County
Craig County
Dickenson County
Floyd County
Franklin County
Giles County
Grayson County
Henry County
Lee County
Montgomery County
Patrick County
Pulaski County
Russell County
Smyth County
Tazewell County
Wise County
Wythe County
Galax City
Martinsville City
Norton City
Radford City

Region 2 - Southside Virginia

Amelia County
Appomattox County
Brunswick County
Buckingham County
Charlotte County
Cumberland County
Greensville County
Halifax County
Lunenburg County
Mecklenburg County
Nottoway County
Prince Edward County
Southampton County
Surry County
Sussex County
Emporia City
Franklin City

Region 3 - Northeast Virginia

Accomack County
Caroline County
Essex County
King & Queen County
King William County
Lancaster County
Middlesex County
Northampton County
Northumberland County
Richmond County
Westmoreland County

Region 4 - Northwest Virginia

Alleghany County
Augusta County
Bath County
Frederick County
Highland County
Louisa County
Madison County
Nelson County
Orange County
Page County
Rappahannock County
Rodkbridge County
Rockingham County
Shenandoah County
Buena Vista City
Clifton Forge City
Covington City
Harrisonburg City
Lexington City
Staunton City
Waynesboro City
Winchester City

METROPOLITAN STATISTICAL AREAS

Johnson City-Kingsport-Bristol, TN-VA MSA (Virginia Portion)

Scott County
 Washington County
 Bristol City

Charlottesville MSA

Albemarle County
 Fluvanna County
 Greene County
 Charlottesville City

Danville MSA

Pittsylvania County
 Danville City

Lynchburg MSA

Amherst County
 Bedford County
 Campbell County
 Bedford City
 Lynchburg City

Norfolk-Virginia Beach-Newport News, VA-NC MSA (Virginia Portion)

Gloucester County
 Isle of Wight County
 James City County
 Mathews County
 York County
 Chesapeake City
 Hampton City
 Newport News City
 Norfolk City
 Poquoson City
 Portsmouth City
 Suffolk City
 Virginia Beach City
 Williamsburg City

Washington DC-MD-VA-WV PMSA (Virginia Portion)

Arlington County
 Clarke County
 Culpeper County
 Fairfax County
 Fauquier County
 King George County
 Loudoun County
 Prince William County
 Spotsylvania County
 Stafford County
 Warren County
 Alexandria City
 Fairfax City
 Falls Church City
 Fredericksburg City
 Manassas City
 Manassas Park City

Richmond-Petersburg MSA

Charles City County
 Chesterfield County
 Dinwiddie County
 Goochland County
 Hanover County
 Henrico County
 New Kent County
 Powhatan County
 Prince George County
 Colonial Heights City
 Hopewell City
 Petersburg City
 Richmond City

Roanoke MSA

Botetourt County
 Roanoke County
 Roanoke City
 Salem City

METHODOLOGY

The following projections are extrapolations of past trends into the future. The methodology for extending these trends is based on certain assumptions, which include the following:

1. The economic structure of the United States and Virginia will not change radically;
2. No major event such as widespread or long-lasting energy shortages or war will significantly alter the industrial structure of the economy or the rate of economic growth; and
3. The effects of current technology and scientific trends on industrial employment will continue.

Industry Projections

The starting point in the projections process was the assembly of 1998 industry employment, mostly by three-digit Standard Industrial Classification (SIC) code, for the state, eight metropolitan statistical areas (MSAs), and four non-MSA regions. The employment data came from the Quarterly Employment and Wages (ES0202) program. The Bureau of Economic Analysis (BEA) was the source for some agricultural employment and the Current Employment Statistics (CES) program was the source for railroad employment. The second step was to obtain growth rates for each three-digit SIC code for the period of 1998-2008 from the U.S. Department of Labor. These growth rates were applied to the appropriate industries for all of the substate areas. The resulting projections were reviewed by the economists and the supervisor of Labor Market and Demographic Analysis in the Economic Information Services Division of the Virginia Employment Commission. The state industry projections were then created from the substate projections.

Occupational Projections

The procedure for bridging the gap between industries and occupations uses the industry-occupational employment matrix. The matrix is a table showing the occupational pattern of each industry, i.e., the ratios of employment by occupation in that industry. The statewide industry-occupational matrix is based on the annual Occupational Employment Statistics (OES) employment survey. This survey draws a sample from one-third of the Virginia business establishments and covers almost all SIC codes. Over a three-year cycle, almost all of the nonagricultural economy is sampled. Estimates of occupations are made by size class within each three-digit industry level and then summed across size classes to yield an occupation-by-industry matrix. The industry-occupational employment matrix used to produce the occupational employment projections in this report was developed from the 1996, 1997, and 1998 OES surveys. Supplemental data for some industrial sectors including Agriculture, Forestry and Fishing (except SIC 07, Agricultural Services), Private Households, and the Federal Government were obtained from sources such as the Census Bureau and the Office of Personnel Management since those are not covered under the OES survey. Occupational ratios for each industry were applied to the base year and the projected year industry employment for the state and substate areas. The projected year matrix has been adjusted for occupational change over the projection period based on information received from the U.S. Bureau of Labor Statistics.

Job Openings Projections

Job openings result when new positions are created by industrial growth (expansion) or when existing positions are vacated because of the death, retirement, or separation from the labor force of incumbent employees (replacement). For the purposes of these data, vacancies created by promotion or transfer are not considered job openings since, overall, there is no aggregate change in job availability. Total job openings for the future equals the sum of expansion needs and replacement needs. Job Openings due to expansion are the annual average change in employment for the period. Openings due to replacement are based on separation rates by occupation which were derived from employment data gathered from the U.S. Department of Labor's Current Population Survey. The resulting separation rate for each occupation was then applied to the employment in the occupation for the base year to produce average annual separations. Statewide rates are used in estimating replacement needs for the substate areas.

Data Limitations

Every effort was made to ensure the reasonableness of the data. The best use of the projections will be as indicators of trends, rather than as absolute numbers.

This report makes no distinction between full-time and part-time jobs. Since these estimates are intended to count jobs rather than persons, the secondary jobs of multiple jobholders are included.

The accuracy of projections cannot exceed the accuracy of the input. The following assumptions were made:

1. That the base year industry employment is correct, i.e., industries are properly classified, counted in the correct geographic area, etc.
2. That the industry staffing patterns obtained by the OES survey are accurate, and that projected change factors are reasonable.
3. That the labor force separation rates used are accurate.
4. That the changes in occupational employment estimates for the projections period result mostly from changes in industrial employment.

TOTAL EMPLOYMENT BY INDUSTRY DIVISION AND MAJOR GROUP (2-DIGIT SIC)

Virginia 1998 - 2008

(SIC) INDUSTRY	EMPLOYMENT			PERCENT CHANGE	
	Estimated 1998	Projected 2008	Change	Total	Annual
Total All Industries	3,294,056	4,039,927	745,871	22.64%	2.06%
Agriculture, Forestry, & Fishing, Total	85,552	84,061	-1,491	-1.74%	-0.18%
(01) Agricultural Production, Crops	30,014	26,276	-3,738	-12.45%	-1.32%
(02) Agriculture Production, Livestock	32,027	28,039	-3,988	-12.45%	-1.32%
(07) Agricultural Services	22,844	29,166	6,322	27.67%	2.47%
(08) Forestry	531	484	-47	-8.85%	-0.92%
(09) Fishing, Hunting, & Trapping	136	96	-40	-29.41%	-3.42%
Mining, Total	10,495	7,684	-2,811	-26.78%	-3.07%
(10) Metal Mining	114	85	-29	-25.44%	-2.89%
(12) Coal Mining	6,402	4,158	-2,244	-35.05%	-4.22%
(13) Oil & Gas Extraction	680	519	-161	-23.68%	-2.67%
(14) Nonmetallic Minerals, Except Fuels	3,299	2,922	-377	-11.43%	-1.21%
Construction, Total	188,653	208,887	20,234	10.73%	1.02%
(15) General Building Contractors	42,152	46,091	3,939	9.34%	0.90%
(16) General Contractors, Exc Bldg	29,324	31,229	1,905	6.50%	0.63%
(17) Special Trade Contractors	117,177	131,567	14,390	12.28%	1.17%
Manufacturing, Total	405,270	392,927	-12,343	-3.05%	-0.31%
Durable Goods Manufacturing, Total	206,900	206,041	-859	-0.42%	-0.04%
(24) Lumber & Wood Products	27,239	26,870	-369	-1.35%	-0.14%
(25) Furniture & Fixtures	21,913	21,250	-663	-3.03%	-0.31%
(32) Stone, Clay, & Glass	12,180	11,766	-414	-3.40%	-0.35%
(33) Primary Metal Industries	9,877	9,438	-439	-4.44%	-0.45%
(34) Fabricated Metal Products	18,970	19,402	432	2.28%	0.23%
(35) Industrial Machinery & Equipment	29,622	30,141	519	1.75%	0.17%

D - Suppression of Industry Data to Prevent Disclosure of Confidential Data
SIC - Standard Industrial Classification

TOTAL EMPLOYMENT BY INDUSTRY DIVISION AND MAJOR GROUP (2-DIGIT SIC)

Virginia 1998 - 2008

(SIC) INDUSTRY	EMPLOYMENT			PERCENT CHANGE	
	Estimated 1998	Projected 2008	Change	Total	Annual
(36) Electronic & Other Electric Equipment	31,955	32,912	957	2.99%	0.30%
(37) Transportation Equipment	40,028	39,477	-551	-1.38%	-0.14%
(38) Instruments & Related Products	10,978	10,683	-295	-2.69%	-0.27%
(39) Misc Manufacturing Industries	4,138	4,102	-36	-0.87%	-0.09%
Nondurable Goods Manufacturing, Total	198,370	186,886	-11,484	-5.79%	-0.59%
(20) Food & Kindred Products	40,038	42,565	2,527	6.31%	0.61%
(21) Tobacco Products	9,086	6,603	-2,483	-27.33%	-3.14%
(22) Textile Mill Products	33,270	26,012	-7,258	-21.82%	-2.43%
(23) Apparel & Other Textile Products	15,789	11,391	-4,398	-27.85%	-3.21%
(26) Paper & Allied Products	17,943	17,595	-348	-1.94%	-0.20%
(27) Printing & Publishing	38,053	37,655	-398	-1.05%	-0.11%
(28) Chemicals & Allied Products	21,576	20,652	-924	-4.28%	-0.44%
(29) Petroleum & Coal Products	561	490	-71	-12.66%	-1.34%
(30) Rubber & Misc Plastics Products	21,646	23,631	1,985	9.17%	0.88%
(31) Leather & Leather Products	408	292	-116	-28.43%	-3.29%
Transportation & Public Utilities, Total	196,065	223,841	27,776	14.17%	1.33%
Transportation, Total	127,602	147,304	19,702	15.44%	1.45%
(40) Railroad Transportation	8,317	6,668	-1,649	-19.83%	-2.19%
(41) Local & Interurban Passenger Transit	7,898	10,431	2,533	32.07%	2.82%
(42) Trucking & Warehousing	42,341	47,083	4,742	11.20%	1.07%
(43) U.S. Postal Service	23,452	24,209	757	3.23%	0.32%
(44) Water Transportation	6,138	7,288	1,150	18.74%	1.73%
(45) Transportation by Air	29,169	37,539	8,370	28.69%	2.55%
(46) Pipelines, Except Natural Gas	82	75	-7	-8.54%	-0.89%

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TOTAL EMPLOYMENT BY INDUSTRY DIVISION AND MAJOR GROUP (2-DIGIT SIC)

Virginia 1998 - 2008

(SIC) INDUSTRY	EMPLOYMENT			PERCENT CHANGE	
	Estimated 1998	Projected 2008	Change	Total	Annual
(47) Transportation Services	10,205	14,011	3,806	37.30%	3.22%
Communications & Utilities, Total	68,463	76,537	8,074	11.79%	1.12%
(48) Communications	49,248	58,452	9,204	18.69%	1.73%
(49) Electric, Gas, & Sanitary Services	19,215	18,085	-1,130	-5.88%	-0.60%
Wholesale & Retail Trade, Total	733,049	862,524	129,475	17.66%	1.64%
Wholesale Trade, Total	145,895	155,446	9,551	6.55%	0.64%
(50) Wholesale Trade, Durable Goods	89,184	95,152	5,968	6.69%	0.65%
(51) Wholesale Trade, Nondurable Goods	56,711	60,294	3,583	6.32%	0.61%
Retail Trade, Total	587,154	707,078	119,924	20.42%	1.88%
(52) Bldg. Materials & Garden Supplies	23,892	28,590	4,698	19.66%	1.81%
(53) General Merchandise Stores	74,719	85,394	10,675	14.29%	1.34%
(54) Food Stores	90,447	100,595	10,148	11.22%	1.07%
(55) Auto Dealers & Service Stations	66,000	76,993	10,993	16.66%	1.55%
(56) Apparel & Accessory Stores	28,061	28,854	793	2.83%	0.28%
(57) Furniture & Homefurnishings Stores	34,347	45,779	11,432	33.28%	2.91%
(58) Eating & Drinking Places	194,562	243,218	48,656	25.01%	2.26%
(59) Miscellaneous Retail	75,126	97,655	22,529	29.99%	2.66%
Finance, Insurance, & Real Estate, Total	174,212	213,423	39,211	22.51%	2.05%
(60) Depository Institutions	51,033	53,801	2,768	5.42%	0.53%
(61) Nondepository Institutions	26,357	43,871	17,514	66.45%	5.23%
(62) Security & Commodity Brokers	9,015	12,837	3,822	42.40%	3.60%
(63) Insurance Carriers	30,565	37,924	7,359	24.08%	2.18%
(64) Insurance Agents, Brokers, & Service	13,139	14,499	1,360	10.35%	0.99%
(65) Real Estate	40,719	46,446	5,727	14.06%	1.32%

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TOTAL EMPLOYMENT BY INDUSTRY DIVISION AND MAJOR GROUP (2-DIGIT SIC)

Virginia 1998 - 2008

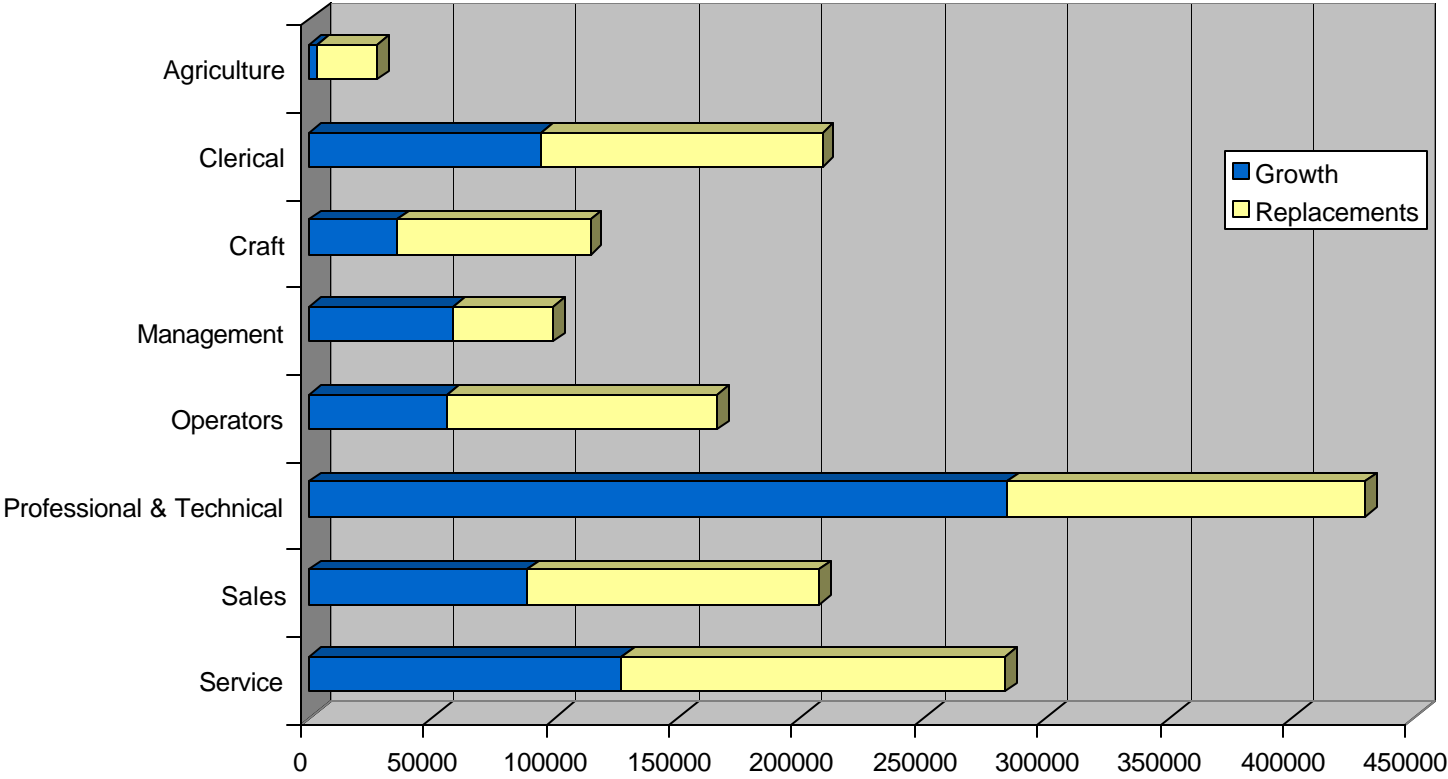
(SIC) INDUSTRY	EMPLOYMENT			PERCENT CHANGE	
	Estimated 1998	Projected 2008	Change	Total	Annual
(67) Holding & Other Investment Offices	3,384	4,045	661	19.53%	1.80%
Services, Total	1,192,454	1,720,600	528,146	44.29%	3.73%
(70) Hotels & Other Lodging Places	46,403	54,572	8,169	17.60%	1.63%
(72) Personal Services	36,447	40,138	3,691	10.13%	0.97%
(73) Business Services	279,146	490,788	211,642	75.82%	5.81%
(75) Auto Repair, Services & Parking	28,031	38,239	10,208	36.42%	3.15%
(76) Misc Repair Services	9,099	9,625	526	5.78%	0.56%
(78) Motion Pictures	10,503	12,613	2,110	20.09%	1.85%
(79) Amusement & Recreation Services	36,106	53,965	17,859	49.46%	4.10%
(80) Health Services (Inc Govt Hosp)	231,439	305,439	74,000	31.97%	2.81%
(81) Legal Services	21,181	27,473	6,292	29.71%	2.64%
(82) Educational Services (Inc Govt Educ)	261,333	335,865	74,532	28.52%	2.54%
(83) Social Services	54,531	89,394	34,863	63.93%	5.07%
(84) Museums, Botanical, Zoological Gardens	4,033	5,725	1,692	41.95%	3.57%
(86) Membership Organizations	31,824	42,709	10,885	34.20%	2.99%
(87) Engineering & Management Services	128,003	199,782	71,779	56.08%	4.55%
(88) Private Households	13,179	12,700	-479	-3.63%	-0.37%
(89) Services, NEC	1,196	1,573	377	31.52%	2.78%
Federal Government (Exc Post Office)	126,067	114,691	-11,376	-9.02%	-0.94%
State Government (Exc Educ & Hosp)	60,420	68,439	8,019	13.27%	1.25%
Local Government (Exc Educ & Hosp)	121,819	142,850	21,031	17.26%	1.61%

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Total Job Openings 1998 - 2008

By Major Occupational Group

Statewide Virginia



EMPLOYMENT AND TOTAL JOB OPENINGS BY MAJOR OCCUPATIONAL GROUP

Virginia 1998 - 2008

MAJOR OCCUPATIONAL GROUP	TOTAL OCCUPATIONAL EMPLOYMENT			TOTAL JOB OPENINGS 1998-2008		
	Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
Total, All Occupations	3,294,056	4,039,927	22.64%	789,450	745,871	1,535,550
Executive, Administrative & Managerial Occs	232,496	290,765	25.06%	41,160	58,269	99,410
Professional Specialty Occs	743,716	1,027,528	38.16%	145,810	283,812	429,710
Marketing & Sales Occupations	390,677	479,141	22.64%	118,670	88,464	207,150
Administrative Support Occs, Clerical	548,916	643,162	17.17%	114,420	94,246	208,690
Service Occupations	491,042	618,251	25.91%	156,170	127,209	283,450
Agriculture, Forestry, & Fishing Occupations	88,280	91,041	3.13%	24,450	2,761	27,200
Precision Production, Craft & Repair Occs	332,441	367,924	10.67%	78,660	35,483	114,090
Operators, Fabricators, & Laborers	466,488	522,115	11.92%	110,110	55,627	165,850

SPECIFIC OCCUPATIONS WITH THE LARGEST PERCENT INCREASE IN EMPLOYMENT (TOTAL GROWTH > 499)
Virginia 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
1	Computer Engineers	14,265	34,792	143.90%	890	20,527	21,420
2	Computer Support Specialists	15,019	35,929	139.22%	930	20,910	21,840
3	Database Administrators	3,095	7,107	129.63%	500	4,012	4,510
4	Systems Analysts	26,452	55,601	110.20%	1,640	29,149	30,790
5	Home Health Aides	11,505	20,159	75.22%	1,600	8,654	10,250
6	Computer Science Teachers, Pstscndry	710	1,218	71.55%	200	508	710
7	Instructors, Adult (Non-VocEd)	1,740	2,952	69.66%	180	1,212	1,390
8	Personal & Home Care Aides	3,342	5,628	68.40%	870	2,286	3,160
9	Physician Assistants	1,318	2,201	67.00%	220	883	1,100
10	Technical Writers	2,021	3,344	65.46%	530	1,323	1,850
11	Medical Assistants	5,753	9,502	65.17%	1,420	3,749	5,170
12	Health Diagnostics Teachers, Pstscndry	2,009	3,260	62.27%	560	1,251	1,810
13	Telemarketers, Door-To-Door Sales	13,056	21,104	61.64%	3,360	8,048	11,410
14	Residential Counselors	3,155	5,072	60.76%	720	1,917	2,640
15	Paralegals & Legal Assistants	3,656	5,865	60.42%	310	2,209	2,520
16	Speech Pathologists, Audiologists	2,106	3,334	58.31%	320	1,228	1,550
17	Physical, Corrective Therapy Assistants	1,707	2,701	58.23%	420	994	1,410
18	Child Care Workers	8,823	13,879	57.30%	870	5,056	5,930
19	Bill & Account Collectors	6,286	9,767	55.38%	1,660	3,481	5,140
20	Computer Programmers	25,353	39,137	54.37%	7,860	13,784	21,640
21	Teachers, Preschool, Educ Srvcs	8,161	12,549	53.77%	1,740	4,388	6,130
22	Engineering/Math/Computer/Ntrl Sci Mgrs	11,385	17,419	53.00%	1,990	6,034	8,020
23	Sales Agents, Business	8,896	13,536	52.16%	1,830	4,640	6,470
24	Dental Assistants	5,684	8,549	50.40%	870	2,865	3,740
25	Dental Hygienists	3,086	4,621	49.74%	690	1,535	2,230

SPECIFIC OCCUPATIONS WITH THE LARGEST PERCENT INCREASE IN EMPLOYMENT (TOTAL GROWTH > 499)
Virginia 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
26	Physical Therapists	2,625	3,914	49.10%	390	1,289	1,680
27	Adjustment Clerks	14,105	21,003	48.90%	920	6,898	7,820
28	Medical Records & Health Info Techns	1,401	2,083	48.68%	350	682	1,030
29	Amusement & Recreation Attendants	5,059	7,472	47.70%	930	2,413	3,340
30	Geologists, Geophysicists, Oceanogrphrs	1,218	1,789	46.88%	310	571	880
31	Teacher Aides, Paraprofessional	12,905	18,927	46.66%	1,480	6,022	7,500
32	Teachers, Special Education	8,402	12,306	46.47%	710	3,904	4,610
33	Instructional Coordinators	3,445	5,027	45.92%	360	1,582	1,940
34	Respiratory Therapists	1,663	2,424	45.76%	250	761	1,010
35	Flight Attendants	2,573	3,735	45.16%	550	1,162	1,710
36	Teacher Aides & Educational Assts	8,482	12,306	45.08%	970	3,824	4,790
37	Securities/Commodities/Financial Svcs, Sls	4,395	6,371	44.96%	330	1,976	2,310
38	Occupational Therapists	1,526	2,209	44.76%	230	683	910
39	Social/Human Service Assistants	6,516	9,371	43.82%	1,700	2,855	4,560
40	Social Workers, Med & Psych	5,699	8,106	42.24%	740	2,407	3,150
41	Correctional Officers	10,772	15,225	41.34%	2,950	4,453	7,400
42	Social Workers, Ex Med, Psych	9,045	12,780	41.29%	1,170	3,735	4,910
43	Data Processing Equipment Repairers	1,705	2,408	41.23%	240	703	940
44	Medical & Health Service Mgrs	3,628	5,114	40.96%	640	1,486	2,130
45	Sheriffs & Deputy Sheriffs	2,802	3,949	40.94%	260	1,147	1,410
46	Business Teachers, Postsecondary	1,528	2,152	40.84%	420	624	1,040
47	Civil Engineering Techns/Technols	2,252	3,166	40.59%	580	914	1,490
48	Producers, Directors, Actors	1,936	2,716	40.29%	430	780	1,210
49	Computer Programmer Aides	3,302	4,629	40.19%	1,020	1,327	2,350
50	Instructors & Coaches, Sports	8,552	11,954	39.78%	900	3,402	4,300

SPECIFIC OCCUPATIONS WITH THE LARGEST PERCENT DECREASE IN EMPLOYMENT (TOTAL GROWTH < -99)

Virginia 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
1	Typesetting & Composing Machine Oprs	300	122	-59.33%	50	-178	50
2	Paste-up Workers	218	106	-51.38%	40	-112	40
3	Railroad Brake, Signal & Switch Oprs	486	244	-49.79%	170	-242	170
4	Roof Bolters, Mining	411	222	-45.99%	100	-189	100
5	Directory Assistance Operators	864	530	-38.66%	190	-334	190
6	Station Installers & Repairers, Telephone	1,032	647	-37.31%	340	-385	340
7	Peripheral EDP Equipment Operators	855	551	-35.56%	120	-304	120
8	Housekeepers & Butlers, Private	398	257	-35.43%	90	-141	90
9	Sewing Machine Oprs, Garment	9,988	6,638	-33.54%	1,370	-3,350	1,370
10	Mine Machinery Mechanics	396	265	-33.08%	100	-131	100
11	Film Strippers, Printing	542	366	-32.47%	90	-176	90
12	Textile Draw-Out Machine Oprs/Tndrs	542	380	-29.89%	90	-162	90
13	Textile Machine Oprs/Tndrs	9,634	6,974	-27.61%	1,600	-2,660	1,600
14	Transportation Attendants	966	752	-22.15%	210	-214	210
15	Rail-Track Laying & Maint Equip Oprs	564	449	-20.39%	130	-115	130
16	Drilling & Boring Machn Setters/Oprs, M/P	544	440	-19.12%	120	-104	120
17	Machine Tool Cutting Oprs, M/P	1,100	891	-19.00%	280	-209	280
18	Textile Machine Setters/Oprs	1,610	1,310	-18.63%	270	-300	270
19	Computer Operators, Ex Peripheral	7,847	6,408	-18.34%	1,110	-1,439	1,110
20	Woodwrkng Machn Oprs/Tndrs, Ex Sawing	1,629	1,342	-17.62%	380	-287	380
21	Child Care Workers, Private	2,595	2,142	-17.46%	1,190	-453	1,190
22	Procurement Clerks	1,632	1,370	-16.05%	250	-262	250
23	Cement & Gluing Machine Oprs/Tndrs	648	544	-16.05%	150	-104	150
24	Woodworking Machn Setters, Ex Sawing	912	772	-15.35%	210	-140	210
25	Supervisors, Farm Workers	1,098	932	-15.12%	90	-166	90

SPECIFIC OCCUPATIONS WITH THE LARGEST PERCENT DECREASE IN EMPLOYMENT (TOTAL GROWTH < -99)

Virginia 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
26	Textile Bleach & Dye Machine Oprs/Tndrs	1,244	1,060	-14.79%	200	-184	200
27	Offset Lithographic Press Oprs	1,463	1,268	-13.33%	320	-195	320
28	Farm Equipment Operators	14,687	13,068	-11.02%	4,520	-1,619	4,520
29	Inspectors, Testers, Graders, Precision	3,315	2,957	-10.80%	680	-358	680
30	Production Inspectors, Graders	9,374	8,395	-10.44%	2,130	-979	2,130
31	Law Clerks	1,918	1,745	-9.02%	210	-173	210
32	Typists, Incl Word Processing	7,153	6,558	-8.32%	1,390	-595	1,390
33	Butchers & Meatcutters, Retail	2,727	2,524	-7.44%	650	-203	650
34	Shipfitters	1,572	1,458	-7.25%	380	-114	380
35	Pressing Machine Oprs/Tndrs, Textiles	2,176	2,027	-6.85%	360	-149	360
36	Helpers: Electricians & Related	4,045	3,806	-5.91%	1,860	-239	1,860
37	Switchboard Operators	4,769	4,508	-5.47%	1,040	-261	1,040
38	Welfare Eligibility Workers	3,078	2,936	-4.61%	660	-142	660
39	Sawing Machine Operators/Tenders	2,756	2,640	-4.21%	810	-116	810
40	Bank Tellers	15,929	15,553	-2.36%	6,840	-376	6,840
41	Farm Managers	5,911	5,780	-2.22%	990	-131	990

SPECIFIC OCCUPATIONS WITH THE LARGEST NUMBER OF TOTAL OPENINGS
Virginia 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
1	Cashiers	90,673	112,125	23.66%	39,510	21,452	60,960
2	Salespersons, Retail	112,495	135,207	20.19%	38,130	22,712	60,840
3	General Managers & Top Executives	92,181	114,764	24.50%	16,150	22,583	38,730
4	General Office Clerks	76,653	93,671	22.20%	21,230	17,018	38,250
5	Waiters & Waitresses	49,047	59,852	22.03%	27,020	10,805	37,830
6	Systems Analysts	26,452	55,601	110.20%	1,640	29,149	30,790
7	Combined Food Prep & Serv Workers	36,451	43,058	18.13%	20,080	6,607	26,690
8	Teachers, Secondary School	33,176	44,562	34.32%	10,590	11,386	21,980
9	Computer Support Specialists	15,019	35,929	139.22%	930	20,910	21,840
10	Computer Programmers	25,353	39,137	54.37%	7,860	13,784	21,640
11	Computer Engineers	14,265	34,792	143.90%	890	20,527	21,420
12	Janitors & Cleaners	53,246	62,998	18.31%	11,560	9,752	21,310
13	Food Preparation Workers	27,423	32,205	17.44%	15,110	4,782	19,890
14	Registered Nurses	45,568	57,867	26.99%	7,520	12,299	19,820
15	Receptionists & Information Clerks	35,209	48,089	36.58%	6,740	12,880	19,620
16	Teachers, Elementary	36,538	44,686	22.30%	8,440	8,148	16,590
17	Hand Packers & Packagers	25,728	35,651	38.57%	6,360	9,923	16,280
18	Secretaries, Except Legal or Medical	65,024	69,593	7.03%	10,610	4,569	15,180
19	Guards	23,782	32,558	36.90%	5,930	8,776	14,710
20	Nursing Aides & Orderlies	27,770	38,588	38.96%	3,870	10,818	14,690
21	Truck Drivers, Light	32,484	41,611	28.10%	4,660	9,127	13,790
22	Laborers, Landscapers, & Groundskpr	23,144	29,296	26.58%	6,900	6,152	13,050
23	Telemarketers, Door-To-Door Sales	13,056	21,104	61.64%	3,360	8,048	11,410
24	Truck Drivers, Heavy	37,529	43,515	15.95%	5,390	5,986	11,380
25	Cooks, Fast Food	20,202	25,289	25.18%	5,280	5,087	10,370

SPECIFIC OCCUPATIONS WITH THE LARGEST NUMBER OF TOTAL OPENINGS
Virginia 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
26	Maids & Housekeeping Cleaners	26,674	32,088	20.30%	4,960	5,414	10,370
27	Home Health Aides	11,505	20,159	75.22%	1,600	8,654	10,250
28	Cooks, Restaurant	18,932	23,752	25.46%	4,950	4,820	9,770
29	Bookkeeping, Accounting, Audit Clerks	41,894	43,825	4.61%	7,820	1,931	9,750
30	Maintenance Repairers, General Utility	28,062	31,332	11.65%	6,280	3,270	9,550
31	Accountants & Auditors	22,847	28,437	24.47%	3,530	5,590	9,120
32	Licensed Practical/Vocational Nurses	17,883	23,004	28.64%	3,830	5,121	8,950
33	Counter & Rental Clerks	12,330	15,552	26.13%	5,340	3,222	8,560
34	Sales Representatives, Mfg & Wholesale	24,457	26,883	9.92%	5,970	2,426	8,400
35	Engineering/Math/Computer/Ntrl Sci Mgrs	11,385	17,419	53.00%	1,990	6,034	8,020
36	Adjustment Clerks	14,105	21,003	48.90%	920	6,898	7,820
37	Automotive Mechanics	17,742	21,041	18.59%	4,410	3,299	7,710
38	Teacher Aides, Paraprofessional	12,905	18,927	46.66%	1,480	6,022	7,500
39	Correctional Officers	10,772	15,225	41.34%	2,950	4,453	7,400
40	Carpenters	19,302	21,211	9.89%	5,170	1,909	7,080
41	Bank Tellers	15,929	15,553	-2.36%	6,840	-376	6,840
42	Marketing, Advertising, Public Rltns Mgrs	12,646	17,408	37.66%	1,760	4,762	6,520
43	Sales Agents, Business	8,896	13,536	52.16%	1,830	4,640	6,470
44	Financial Managers	16,981	20,628	21.48%	2,690	3,647	6,340
45	Physicians	11,509	16,032	39.30%	1,800	4,523	6,320
46	Teachers, Preschool, Educ Srvcs	8,161	12,549	53.77%	1,740	4,388	6,130
47	Child Care Workers	8,823	13,879	57.30%	870	5,056	5,930
48	Electrical & Electronics Engineers	10,416	14,029	34.69%	2,220	3,613	5,830
49	Human Res, Training, Labor Rltns Specs	11,339	14,035	23.78%	3,020	2,696	5,720
50	Bus Drivers, School	13,587	16,732	23.15%	2,430	3,145	5,580

SPECIFIC OCCUPATIONS WITH THE LARGEST NUMBER OF TOTAL OPENINGS -- DUE TO GROWTH

Virginia 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
1	Systems Analysts	26,452	55,601	110.20%	1,640	29,149	30,790
2	Salespersons, Retail	112,495	135,207	20.19%	38,130	22,712	60,840
3	General Managers & Top Executives	92,181	114,764	24.50%	16,150	22,583	38,730
4	Cashiers	90,673	112,125	23.66%	39,510	21,452	60,960
5	Computer Support Specialists	15,019	35,929	139.22%	930	20,910	21,840
6	Computer Engineers	14,265	34,792	143.90%	890	20,527	21,420
7	General Office Clerks	76,653	93,671	22.20%	21,230	17,018	38,250
8	Computer Programmers	25,353	39,137	54.37%	7,860	13,784	21,640
9	Receptionists & Information Clerks	35,209	48,089	36.58%	6,740	12,880	19,620
10	Registered Nurses	45,568	57,867	26.99%	7,520	12,299	19,820
11	Teachers, Secondary School	33,176	44,562	34.32%	10,590	11,386	21,980
12	Nursing Aides & Orderlies	27,770	38,588	38.96%	3,870	10,818	14,690
13	Waiters & Waitresses	49,047	59,852	22.03%	27,020	10,805	37,830
14	Hand Packers & Packagers	25,728	35,651	38.57%	6,360	9,923	16,280
15	Janitors & Cleaners	53,246	62,998	18.31%	11,560	9,752	21,310
16	Truck Drivers, Light	32,484	41,611	28.10%	4,660	9,127	13,790
17	Guards	23,782	32,558	36.90%	5,930	8,776	14,710
18	Home Health Aides	11,505	20,159	75.22%	1,600	8,654	10,250
19	Teachers, Elementary	36,538	44,686	22.30%	8,440	8,148	16,590
20	Telemarketers, Door-To-Door Sales	13,056	21,104	61.64%	3,360	8,048	11,410
21	Adjustment Clerks	14,105	21,003	48.90%	920	6,898	7,820
22	Combined Food Prep & Serv Workers	36,451	43,058	18.13%	20,080	6,607	26,690
23	Laborers, Landscapers, & Groundskprs	23,144	29,296	26.58%	6,900	6,152	13,050
24	Engineering/Math/Computer/Ntrl Sci Mgrs	11,385	17,419	53.00%	1,990	6,034	8,020
25	Teacher Aides, Paraprofessional	12,905	18,927	46.66%	1,480	6,022	7,500

SPECIFIC OCCUPATIONS WITH THE LARGEST NUMBER OF TOTAL OPENINGS -- DUE TO GROWTH

Virginia 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
26	Truck Drivers, Heavy	37,529	43,515	15.95%	5,390	5,986	11,380
27	Accountants & Auditors	22,847	28,437	24.47%	3,530	5,590	9,120
28	Maids & Housekeeping Cleaners	26,674	32,088	20.30%	4,960	5,414	10,370
29	Licensed Practical/Vocational Nurses	17,883	23,004	28.64%	3,830	5,121	8,950
30	Cooks, Fast Food	20,202	25,289	25.18%	5,280	5,087	10,370
31	Child Care Workers	8,823	13,879	57.30%	870	5,056	5,930
32	Cooks, Restaurant	18,932	23,752	25.46%	4,950	4,820	9,770
33	Food Preparation Workers	27,423	32,205	17.44%	15,110	4,782	19,890
34	Marketing, Advertising, Public Rltns Mgrs	12,646	17,408	37.66%	1,760	4,762	6,520
35	Sales Agents, Business	8,896	13,536	52.16%	1,830	4,640	6,470
36	Secretaries, Except Legal or Medical	65,024	69,593	7.03%	10,610	4,569	15,180
37	Physicians	11,509	16,032	39.30%	1,800	4,523	6,320
38	Correctional Officers	10,772	15,225	41.34%	2,950	4,453	7,400
39	Teachers, Preschool, Educ Srvcs	8,161	12,549	53.77%	1,740	4,388	6,130
40	Management Analysts	10,902	15,138	38.86%	860	4,236	5,100
41	Database Administrators	3,095	7,107	129.63%	500	4,012	4,510
42	Teachers, Special Education	8,402	12,306	46.47%	710	3,904	4,610
43	Teacher Aides & Educational Assts	8,482	12,306	45.08%	970	3,824	4,790
44	Medical Assistants	5,753	9,502	65.17%	1,420	3,749	5,170
45	Social Workers, Ex Med, Psych	9,045	12,780	41.29%	1,170	3,735	4,910
46	Financial Managers	16,981	20,628	21.48%	2,690	3,647	6,340
47	Electrical & Electronics Engineers	10,416	14,029	34.69%	2,220	3,613	5,830
48	Data Entry Keyers, Ex Composing	11,248	14,818	31.74%	860	3,570	4,430
49	Bill & Account Collectors	6,286	9,767	55.38%	1,660	3,481	5,140
50	Instructors & Coaches, Sports	8,552	11,954	39.78%	900	3,402	4,300

SPECIFIC OCCUPATIONS WITH THE LARGEST NUMBER OF TOTAL OPENINGS -- DUE TO REPLACEMENTS

Virginia 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
1	Cashiers	90,673	112,125	23.66%	39,510	21,452	60,960
2	Salespersons, Retail	112,495	135,207	20.19%	38,130	22,712	60,840
3	Waiters & Waitresses	49,047	59,852	22.03%	27,020	10,805	37,830
4	General Office Clerks	76,653	93,671	22.20%	21,230	17,018	38,250
5	Combined Food Prep & Serv Workers	36,451	43,058	18.13%	20,080	6,607	26,690
6	General Managers & Top Executives	92,181	114,764	24.50%	16,150	22,583	38,730
7	Food Preparation Workers	27,423	32,205	17.44%	15,110	4,782	19,890
8	Janitors & Cleaners	53,246	62,998	18.31%	11,560	9,752	21,310
9	Secretaries, Except Legal or Medical	65,024	69,593	7.03%	10,610	4,569	15,180
10	Teachers, Secondary School	33,176	44,562	34.32%	10,590	11,386	21,980
11	Teachers, Elementary	36,538	44,686	22.30%	8,440	8,148	16,590
12	Computer Programmers	25,353	39,137	54.37%	7,860	13,784	21,640
13	Bookkeeping, Accounting, Audit Clerks	41,894	43,825	4.61%	7,820	1,931	9,750
14	Registered Nurses	45,568	57,867	26.99%	7,520	12,299	19,820
15	Laborers, Landscapers, & Groundskprs	23,144	29,296	26.58%	6,900	6,152	13,050
16	Bank Tellers	15,929	15,553	-2.36%	6,840	-376	6,840
17	Receptionists & Information Clerks	35,209	48,089	36.58%	6,740	12,880	19,620
18	Hand Packers & Packagers	25,728	35,651	38.57%	6,360	9,923	16,280
19	Maintenance Repairers, General Utility	28,062	31,332	11.65%	6,280	3,270	9,550
20	Sales Representatives, Mfg & Wholesale	24,457	26,883	9.92%	5,970	2,426	8,400
21	Guards	23,782	32,558	36.90%	5,930	8,776	14,710
22	Truck Drivers, Heavy	37,529	43,515	15.95%	5,390	5,986	11,380
23	Counter & Rental Clerks	12,330	15,552	26.13%	5,340	3,222	8,560
24	Cooks, Fast Food	20,202	25,289	25.18%	5,280	5,087	10,370
25	Carpenters	19,302	21,211	9.89%	5,170	1,909	7,080

SPECIFIC OCCUPATIONS WITH THE LARGEST NUMBER OF TOTAL OPENINGS -- DUE TO REPLACEMENTS

Virginia 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
26	Maids & Housekeeping Cleaners	26,674	32,088	20.30%	4,960	5,414	10,370
27	Cooks, Restaurant	18,932	23,752	25.46%	4,950	4,820	9,770
28	Truck Drivers, Light	32,484	41,611	28.10%	4,660	9,127	13,790
29	Farm Equipment Operators	14,687	13,068	-11.02%	4,520	-1,619	4,520
30	Automotive Mechanics	17,742	21,041	18.59%	4,410	3,299	7,710
31	Counter Attendants, Lunchroom	4,998	5,995	19.95%	4,150	997	5,150
32	Stock Clerks, Sales Floor	26,390	27,353	3.65%	3,980	963	4,940
33	Nursing Aides & Orderlies	27,770	38,588	38.96%	3,870	10,818	14,690
34	Licensed Practical/Vocational Nurses	17,883	23,004	28.64%	3,830	5,121	8,950
35	First Line Supervisors: Productn/Operatg	13,385	13,362	-0.17%	3,750	-23	3,750
36	First Line Supervisors: Mechanics & Rprs	12,519	14,142	12.96%	3,710	1,623	5,330
37	Accountants & Auditors	22,847	28,437	24.47%	3,530	5,590	9,120
38	Traffic, Shipping & Receiving Clerks	20,294	21,759	7.22%	3,380	1,465	4,850
39	Telemarketers, Door-To-Door Sales	13,056	21,104	61.64%	3,360	8,048	11,410
40	First Line Supervisors: Constrctn, Extrctn	12,509	14,239	13.83%	3,330	1,730	5,060
41	Human Res, Training, Labor Rltns Specs	11,339	14,035	23.78%	3,020	2,696	5,720
42	Correctional Officers	10,772	15,225	41.34%	2,950	4,453	7,400
43	Dining Room & Cafeteria Helpers	9,522	10,813	13.56%	2,900	1,291	4,190
44	Stock Clerks:Stockroom/Warehouse/Yard	18,841	21,166	12.34%	2,840	2,325	5,170
45	Hairdressers & Hairstylists	11,004	12,250	11.32%	2,830	1,246	4,080
46	Financial Managers	16,981	20,628	21.48%	2,690	3,647	6,340
47	Sales Representatives, Science	10,977	13,400	22.07%	2,680	2,423	5,100
48	Helpers: Carpenters & Related	5,778	6,459	11.79%	2,660	681	3,340
49	Bus Drivers, School	13,587	16,732	23.15%	2,430	3,145	5,580
50	Education Administrators	9,300	11,966	28.67%	2,330	2,666	5,000

ALPHABETICAL INDEX OF OCCUPATIONS

To Be Used in Locating Individual Occupations in the Employment and Openings Table

Virginia 1998 - 2008

LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE
32	Accountants & Auditors	632	Bakers, Manufacturing	357	Central Office Operators
27	Accountants, Auditors, Financial Specialists	289	Bank Tellers	57	Chemical Engineers
112	Actuaries	288	Bank, Security, Finance, Credit Workers	723	Chemical Equipment Controllers/Oprs
133	Adjudicators, Hearing Officers	434	Barbers	724	Chemical Equipment Tenders
296	Adjustment Clerks	403	Bartenders	768	Chemical Plant & System Oprs
8	Administrative Services Mgrs	543	Bicycle Repairers	96	Chemical Techns/Technols, Ex Health
3	Administrative Specialty Mgrs	308	Bill & Account Collectors	147	Chemistry Teachers, Postsecondary
285	Administrative Support Occs, Clerical	342	Billing, Cost & Rate Clerks	84	Chemists
286	Administrative Support Supervisors	345	Billing, Posting & Calculating Machn Oprs	446	Child Care Workers
320	Advertising Clerks	699	Bindery Machine Operators	386	Child Care Workers, Private
54	Aerospace Engineers	694	Bindery Machine Setters/Oprs	200	Chiropractors
90	Agricultural & Food Scientists	91	Biological Scientists	73	Civil Engineering Techns/Technols
449	Agriculture, Forestry, & Fishing Occupations	95	Biological, Agriculture & Food Techns	59	Civil Engineers, Incl Traffic
474	Agriculture, Forestry, Fishing Wkrs, NEC	587	Blasters & Explosive Workers	50	Claims Examiners, Insurance
572	Air Hammer Operators	720	Boiler Operators & Tenders, Low Pressure	387	Cleaners & Servants, Private
256	Air Traffic Controllers	602	Boilermakers	833	Cleaners of Vehicles/Equipment
508	Aircraft Mechanics	629	Bookbinders	428	Cleaning & Building Service Occupations
425	Ambulance Drivers & Attendants, Ex EMT	340	Bookkeeping, Accounting, Audit Clerks	432	Cleaning/Bldg Serv Wrks, NEC
438	Amusement & Recreation Attendants	556	Brick Masons	731	Cleaning/Washing/Pickling Eqp Oprs/Tndrs
466	Animal Caretakers, Ex Farm	244	Broadcast & Sound Technicians	128	Clergy
465	Animal Trainers	240	Broadcast News Analysts	376	Clerical Occupations, NEC
241	Announcers, Radio & TV	298	Brokerage Clerks	729	Coat/Paint/Spray Machine Oprs/Tndrs
160	Anthropology/Sociology Tchrs, Pstscndry	265	Brokers, Real Estate	728	Coat/Paint/Spray Machine Setters/Oprs
67	Architects & Surveyors	33	Budget Analysts	749	Coil Winders, Tapers & Finishers
68	Architects, Ex Landscape & Naval	780	Bus Drivers, School	542	Coin & Vending Machine Servicers
157	Architecture Teachers, Postsecondary	779	Bus Drivers, Transit/Intercity	142	College & University Faculty
161	Area/Ethnic/Cultural Studies Tchrs, Pstsc	504	Bus, Truck, Diesel Engine Mechanics	661	Combination Machine Tool Setters, M/P
155	Art, Drama & Music Teachers, Pstscndry	167	Business Teachers, Postsecondary	662	Combination Machn Tool Oprs/Tndrs, M/P
246	Artists & Commercial Artists	409	Butchers & Meatcutters, Retail	415	Combined Food Prep & Serv Workers
764	Assemblers & Fabricators, NEC	607	Cabinetmakers & Bench Carpenters	353	Communication Equip Oprs, Mail Wrkrs
740	Assemblers, Precision	624	Camera Operators	358	Communication Equipment Oprs, NEC
49	Assessors	243	Camera Operators, TV/Movie/Video	18	Communication/Transportation/Utilities Mgrs
254	Athletes, Coaches, Umpires	757	Cannery Workers	510	Communications Equipment Mechanics
85	Atmospheric & Space Scientists	791	Captains, Water Vessels	516	Communications Equipmt Mechns, NEC
189	Audio-Visual Specialists	229	Cardiology Technols/Techns	152	Communications Teachers, Pstscndry
502	Automotive Body Repairers	549	Carpenters	620	Compositors & Typesetters, Precision
501	Automotive Mechanics	568	Carpet Installers	99	Computer & Math Occupations
771	Auxiliary Equipment Oprs, Power	281	Cashiers	61	Computer Engineers
441	Baggage Porters & Bellhops	550	Ceiling Tile Installers & Acoust Carptrs	348	Computer Operators, Ex Peripheral
393	Bailiffs	730	Cement & Gluing Machine Oprs/Tndrs	105	Computer Programmer Aides
408	Bakers, Bread & Pastry	511	Central Office & PBX Installers, Rprs	104	Computer Programmers

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LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE
159	Computer Science Teachers, Pstscndry	339	Customer Service Representatives	533	Electric Meter Installers & Repairers
107	Computer Scientists, NEC	755	Cutters & Trimmers, Hand	522	Electric Motor, Transformer Repairers
103	Computer Support Specialists	726	Cutting & Slicing Machine Oprs/Tndrs	525	Electric Powerline Intallers & Repairers
100	Computer Systems Anlsts/Engnrs/Scientists	725	Cutting & Slicing Machine Setters/Oprs	748	Electrical & Electronic Assemblers
108	Computer/Math Scientists & Rsrch Anlsts	722	Dairy Processing Equipment Oprs/Setters	74	Electrical & Electronic Techns/Technols
559	Concrete Fnshr/Cement Msn/Terrazzo Wkr	252	Dancers & Choreographers	60	Electrical & Electronics Engineers
592	Construction & Extractive Workers, NEC	351	Data Entry Keyers, Composing	527	Electrical Installers & Repairers
482	Construction & Rltd Supervisors, NEC	350	Data Entry Keyers, Ex Composing	554	Electrical Workers
16	Construction Managers	519	Data Processing Equipment Repairers	744	Electrical/Electronic Equip Assmblrs, Prec
547	Construction Trades & Extractive Occs	102	Database Administrators	675	Electrolytic Plate/Coat Machn Oprs, M/P
824	Construction Trades Helpers, NEC	283	Demonstrators/Product Promoters	674	Electrolytic Plate/Coat Machn Sttrs/Oprs, M/P
548	Construction Trades Workers	418	Dental Assistants	743	Electromechanical Equipment Assmblrs
584	Construction Trades Workers, NEC	223	Dental Hygienists	532	Electromedical & Biomedical Equip Rprs
46	Construction, Bldg Inspectors	640	Dental Lab Technicians, Precision	228	Electroneurodiagnostic Techns
589	Continuous Mining Machine Operators	197	Dentists	344	Electronic Data Procssng & Offc Machn Wkrs
810	Conveyor Operators/Tenders	247	Designers, Ex Interior Designers	712	Electronic Semiconductor Processors
717	Cooking Machine Oprs, Food & Tobacco	623	Desktop Publishing Specialists	523	Electronics Rprs, Commrc'l & Indstrl Eqp
412	Cooks, Fast Food	396	Detectives, Except Public	538	Elevator Installers & Repairers
411	Cooks, Institution or Cafeteria	219	Dietetic Technicians	259	Embalmers
384	Cooks, Private Household	218	Dietitians & Nutritionists	213	Emergency Medical Techns & Paramedics
410	Cooks, Restaurant	406	Dining Room & Cafeteria Helpers	41	Employment Interviewers
413	Cooks, Short Order	129	Directors, Religious Activities/Education	156	Engineering Teachers, Postsecondary
721	Cooling & Freezing Equipment Oprs/Tndrs	356	Directory Assistance Operators	72	Engineering Techns/Technols
392	Correctional Officers	366	Dispatchers, Ex Police, Fire & Ambulance	80	Engineering Techns/Technols, NEC
333	Correspondence Clerks	365	Dispatchers: Police, Fire, & Ambulance	9	Engineering/Math/Computer/Ntrl Sci Mgrs
44	Cost Estimators	77	Drafters	53	Engineers
191	Counselors, Vocational Education	647	Drilling & Boring Machn Setters/Oprs, M/P	52	Engineers & Related Occupations
279	Counter & Rental Clerks	782	Drivers & Sales Workers	66	Engineers, NEC
407	Counter Attendants, Lunchroom	551	Drywall Installers	153	English Lang/Lit Teachers, Pstscndry
310	Court Clerks	346	Duplicating Machine Operators	762	Engraving & Printing Wkrs, Hand
309	Court, Municipal, License Clerks	617	Dyers, Precision	78	Estimators & Drafters, Utilities
808	Crane & Tower Operators	230	EKG Technicians	803	Excavation & Loading Machine Operators
29	Credit Analysts	586	Earth Drillers, Ex Oil & Gas	2	Executive, Administrative & Managerial Occs
293	Credit Authorizers	162	Economics Teachers, Postsecondary	591	Extraction Workers, Ex Helpers, NEC
294	Credit Checkers	117	Economists	585	Extractive & Related Workers
394	Criminal Investigators, Federal	12	Education Administrators	735	Extrud/Form/Press Machine Oprs/Tndrs
169	Criminal Justice/Law Enfrcmnt Tchrs, Pstsc	170	Education Teachers, Postsecondary	734	Extrud/Form/Press Machine Setters/Oprs
398	Crossing Guards	521	Elec Home Appliance & Power Tool Rprs	655	Extruding & Drawing Setters/Oprs, M/P
733	Crushing/Grinding/Mixg Machn Oprs/Tndrs	520	Elec Home Entertainment Equip Rprs	704	Extruding & Forming Machine Oprs/Tndrs
190	Curators, Archivists & Museum Techns	528	Electric & Electronic Equip Mechs, NEC	455	Fallers & Buckers
612	Custom Tailors & Sewers	517	Electric & Electronic Equipment Mechanics	451	Farm Managers

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LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE
184	Farm & Home Management Advisors	673	Foundry Mold Assembly & Shakeout Wkrs	427	Health Service Workers, NEC
507	Farm Equipment Mechanics	512	Frame Wipers, Central Office	151	Health Specialties Teachers, Pstscndry
467	Farm Equipment Operators	827	Freight, Stock & Material Movers, Hand	220	Health Technicians & Technologists
459	Farm Occupations	830	Freight, Stock & Mtrl Mvrs, Hand, NEC	676	Heat Treating Machine Oprs/Tndrs
450	Farm Operators & Managers	447	Funeral Attendants	530	Heat, A/C, Refrig Mechanics
473	Farm Workers, Farm & Ranch Animals	258	Funeral Directors & Morticians	834	Helpers, Laborers & Movers, NEC
472	Farm Workers, Food & Fiber Crops	677	Furnace Operators & Tenders	818	Helpers: Brick & Stone Masons
583	Fence Erectors	719	Furnace, Kiln, Oven, Drier or Kettle Oprs	819	Helpers: Carpenters & Related
334	File Clerks	608	Furniture Finishers	817	Helpers: Construction Trades
245	Film Editors	461	Gardening, Nursery, Lawn Occs	820	Helpers: Electricians & Related
626	Film Strippers, Printing	541	Gas Appliance Repairers	825	Helpers: Extractive Workers
113	Financial Analysts, Statistical	23	General Managers & Top Executives	816	Helpers: Mechanics & Repairers
4	Financial Managers	323	General Office & Secretarial Workers	821	Helpers: Painters & Paperhangers
34	Financial Specialists, NEC	343	General Office Clerks	822	Helpers: Plumbers & Related
389	Fire Fighters	328	General Office Occupations	823	Helpers: Roofers
379	Fire Fighting & Prevention Supervisors	86	Geologists, Geophysicists, Oceanogrphrs	574	Highway Maintenance Workers
452	First Line Supervisors: Ag, Forest, Fish	581	Glaziers	163	History Teachers, Postsecondary
478	First Line Supervisors: Constrctn, Extrctn	750	Glaziers, Manufacturing	807	Hoist & Winch Operators
481	First Line Supervisors: Helpers, Laborers	22	Government Chief Executives & Legislators	173	Home Economics Teachers, Pstscndry
477	First Line Supervisors: Mechanics & Rprs	806	Grader, Dozer & Scraper Operators	421	Home Health Aides
479	First Line Supervisors: Productn/Operatg	464	Graders & Sorters, Ag Products	402	Hosts & Hostesses:Restaurant, Lounge
480	First Line Supervisors: Transportation	145	Graduate Assistants, Teaching	316	Hotel/Motel/Resort Desk Clerks
397	Fish & Game Wardens	763	Grinders & Polishers, Hand	385	Housekeepers & Butlers, Private
742	Fitters, Structural Metal, Precision	649	Grinding Mach Setters/Oprs, M/P	42	Human Res, Training, Labor Rltns Specs
442	Flight Attendants	399	Guards	332	Human Resources Clerks, Ex Payroll/Time
569	Floor Layers, Ex Carpet	439	Guides	5	Human Resources Managers
567	Floor Related Workers	435	Hairdressers & Hairstylists	75	Industrial Engineering Techns/Technols
570	Floor Sanding Machine Operators	815	Hand Labor & Material Moving Helpers	62	Industrial Engineers, Ex Safety
401	Food & Beverage Preparation	832	Hand Packers & Packagers	490	Industrial Machinery Mechanics
633	Food Batchmakers	765	Hand Workers, NEC	15	Industrial Production Managers
416	Food Prep & Service Workers, NEC	739	Handworking Occupations, Incl Assemblers	809	Industrial Truck & Tractor Operators
414	Food Preparation Workers	558	Hard Tile Setters	287	Industry Specific Support Occs
405	Food Servers	578	Hazardous Materials Removal Wkrs	317	Industry Specific Workers, NEC
19	Food Service & Lodging Mgrs	683	Head Sawyer	483	Inspectors
630	Food Workers, Precision	210	Health Assessment & Treatment Occptns	47	Inspectors & Compliance Officers
154	Foreign Lang/Lit Teachers, Pstscndry	195	Health Diagnosing Occs	484	Inspectors, Testers, Graders, Precision
462	Forest & Conservation Workers	150	Health Diagnostics Teachers, Pstscndry	487	Inspectors, Testers, NEC
454	Forest & Logging Occupations	202	Health Practitioners, NEC	381	Institutional Cleaning Supervisors
89	Foresters, Conservation Scientists	194	Health Practitioners/Techns/Technols	192	Instructional Coordinators
657	Forging Machine Setters/Oprs, M/P	234	Health Prof, Paraprof, & Techns, NEC	183	Instructors & Coaches, Sports
636	Foundry Mold & Core Makers	417	Health Service Occupations	182	Instructors, Adult (Non-VocEd)

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To Be Used in Locating Individual Occupations in the Employment and Openings Table

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LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE
577	Insulation Workers	628	Lithographic & Photengrvg Workers, NEC	65	Marine Engineers
300	Insurance Adjusters/Examiners/Invstgtrs	804	Loading Machine Operators, Mining	261	Marketing & Sales Occupations
301	Insurance Appraisers, Auto Damage	295	Loan & Credit Clerks	262	Marketing & Sales Supervisors
303	Insurance Claims Clerks	292	Loan Interviewers	263	Marketing & Sales, Service
302	Insurance Examining Clerks	30	Loan Officers & Counselors	7	Marketing, Advertising, Public Rltns Mgrs
304	Insurance Policy Processing Clerks	535	Locksmiths & Safe Repairers	371	Marking Clerks
264	Insurance Sales Workers	786	Locomotive Engineers	555	Masonry Workers
248	Interior Designers	787	Locomotive Firers	801	Material Moving Equipment Operators
338	Interview Clerks, Except Personnel	313	Lodging & Travel Workers	813	Material Moving Equipment Oprs, NEC
305	Investigative & Related Workers	463	Log Graders & Scalars	364	Material Recordg/Schedulg/Distributg Occs
307	Investigators, Clerical	456	Log Handling Equipment Operators	375	Material Recording Workers, NEC
430	Janitors & Cleaners	457	Logging Tractor Operators	55	Materials Engineers
600	Jewelers & Silversmiths	802	Longshore Equipment Operators	792	Mates: Ship, Boat & Barge
621	Job Printers	747	Machine Assemblers	158	Math & Science Teachers, Pstscndry
470	Laborers, Landscapers, & Groundskpr	741	Machine Builder Assemblers, Precision	114	Mathematical Scientist, NEC
70	Landscape Architects	651	Machine Cut/Form Setters/Oprs, M/P	110	Mathematical Scientists
646	Lathe & Turning Machn Setters/Oprs, M/P	826	Machine Feeders & Offbearers	758	Meat, Poultry & Fish Cutters, Hand
553	Lathers	658	Machine Forming Operators, M/P	537	Mechanical Control Installers & Repairers
709	Laundry & Drycleaning Machine Oprs	738	Machine Operators/Tenders, NEC	76	Mechanical Engineering Techns/Technls
131	Law & Related Occupations	643	Machine Setters, Set-Up Opr/Tndrs	64	Mechanical Engineers
136	Law Clerks	737	Machine Setters/Setup Oprs, NEC	488	Mechanics, Installers, & Repairers
168	Law Teachers, Postsecondary	650	Machine Tool Cutting Oprs, M/P	546	Mechanics, Installers, & Repairers, NEC
20	Lawn Service Managers	498	Machinery Maintenance Workers	222	Medical & Clinical Lab Technicians
134	Lawyers	496	Machinery Mechanics, NEC	221	Medical & Clinical Lab Technologists
132	Lawyers & Judicial Workers	493	Machinery Mechanics: Marine	13	Medical & Health Service Mgrs
598	Layout Workers, Metal, Precision	492	Machinery Mechanics: Sewing	419	Medical Assistants
143	Lecturers	491	Machinery Mechanics: Textile	224	Medical Records & Health Info Techns
135	Legal Assistants & Technicians	495	Machinery Mechanics: Water & Power	92	Medical Scientists
140	Legal Assistants, NEC	489	Machinery: Mechanic, Installer, Repairer	326	Medical Secretaries
325	Legal Secretaries	596	Machinists	545	Menders, Garments & Linens
690	Letterpress Operators	429	Maids & Housekeeping Cleaners	249	Merchandise Displayers & Windw Drssrs
187	Librarians	359	Mail & Message Distribution Workers	363	Messengers
186	Librarians, Archivists, Curators	360	Mail Clerks, Ex Mail Machine	680	Metal & Plastic Oprs/Tndrs, NEC
318	Library Assistants & Bookmobile Drivers	347	Mail Machine Operators	668	Metal & Plastic Process Machine Sttrs/Oprs
188	Library Technicians	499	Maintenance Repairers, General Utility	679	Metal & Plastic Setters/Oprs, NEC
312	License Clerks	45	Management Analysts	663	Metal Fabricating Machn Setters/Oprs, M/P
212	Licensed Practical/Vocational Nurses	26	Management Support Occs	667	Metal Fabricators, Structural Metal
146	Life Sciences Teachers, Postsecondary	51	Management Support Workers, NEC	672	Metal Mold/Core/Cast Machine Oprs/Tndrs
88	Life Scientists	24	Managers & Administrators, NEC	671	Metal Mold/Core/Cast Machine Sttrs/Oprs
93	Life Scientists, NEC	436	Manicurists	759	Metal Pourers & Casters, Basic Shape
10	Line & Middle Management	69	Marine Architects	594	Metal Workers, Precision

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LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE
369	Meter Readers, Utilities	576	Other Construction Trades Workerrs	149	Physical Science Teachers, Pstscndry, NEC
648	Milling Machine Setters/Oprs, M/P	746	Other Hand Workers & Assemblers	82	Physical Scientists
497	Millwrights	831	Other Helpers, Laborers & Movers	87	Physical Scientists, NEC
494	Mine Machinery Mechanics	711	Other Machine Setters/Oprs,Tndrs	206	Physical Therapists
17	Mining & Related Managers	43	Other Management Support Workers	423	Physical, Corrective Therapy Assistants
56	Mining Engineers, Incl Safety	21	Other Managers & Administrators	214	Physician Assistants
590	Mining Machine Operators, NEC	529	Other Mechanics, Installers & Repairers	196	Physicians
505	Mobile Heavy Equipment Mechanics	678	Other Metal & Plastic Setters/Oprs/Tndrs	83	Physicists & Astronomers
540	Mobile Home Repairers	635	Other Precision Workers	148	Physics Teachers, Postsecondary
760	Molders & Casters, Hand	255	Other Prof, Paraprof, Techns	796	Pilot, Flight Engineer Occs
637	Molders & Shapers, Ex Jewelry/Foundry	273	Other Sales Workers	566	Pipelayers
713	Motion Picture Projectionists	797	Other Transportation Workers	565	Pipelaying Fitters
776	Motor Vehicle Operators	736	Packaging & Filling Machine Oprs/Tndrs	766	Plant & System Occupations
783	Motor Vehicle Operators, NEC	562	Painters, Paperhangers & Related Workers	774	Plant & System Oprs, NEC
503	Motorcycle Repairers	727	Painters, Transportation Equipment	561	Plasterers & Stucco Masons
311	Municipal Clerks	761	Painting, Coating & Decoratg Wkrs, Hand	670	Plastic Molding/Casting Machn Oprs/Tndrs
250	Music Directors, Singers & Related Wkrs	716	Paper Goods Machine Setters/Oprs	669	Plastic Molding/Casting Machn Sttrs/Oprs
534	Musical Instrument Repairers/Tuners	137	Paralegals & Legal Assistants	627	Platemakers
251	Musicians, Instrumental	799	Parking Lot Attendants	563	Plumbers & Related Workers
81	Natural Scientists & Related Occs	172	Parks/Rec/Leisure/Fitns Stds Teachers	564	Plumbers, Pipefitters, & Steamfitters
290	New Accounts Clerks, Banking	622	Paste-up Workers	199	Podiatrists
58	Nuclear Engineers	605	Pattern & Model Makers, Wood	380	Police & Detective Supervisors
226	Nuclear Medicine Technologists	611	Patternmakers & Layout Wkrs, Fbrc/Aprl	390	Police Detectives
659	Numerical & Combination Machn Sttrs/Oprs	573	Paving, Surfacing, & Tamping Operators	391	Police Patrol Officers
660	Numerical Control Machn Operators, M/P	341	Payroll & Timekeeping Clerks	164	Political Science Teachers, Postsecondary
420	Nursing Aides & Orderlies	349	Peripheral EDP Equipment Operators	756	Portable Machine Cutters
144	Nursing Instructors	445	Personal & Home Care Aides	361	Postal Mail Carriers
205	Occupational Therapists	39	Personnel Specialists, Related	362	Postal Service Clerks
424	Occupational Therapy Assistants	431	Pest Controllors & Assistants	11	Postmasters, Mail Superintendents
536	Office Machine & Cash Register Servicers	769	Petroleum Refinery Operators	174	Postsecondary Teachers, NEC
352	Office Machine Operators, NEC	97	Petroleum Techns/Technols	524	Power & Substation, Electricians
689	Offset Lithographic Press Oprs	216	Pharmacists	772	Power Distributors & Dispatchers
812	Operating Engineers	426	Pharmacy Assistants	770	Power Generating Plant Oprs
109	Operations Research Analysts	217	Pharmacy Technicians	745	Precision Assemblers, Metral, NEC
642	Operators, Fabricators, & Laborers	171	Philosphy/Religion Teachers, Pstscndry	634	Precision Food & Tobacco Workers, NEC
639	Ophthalmic Laboratory Technicians	698	Photoengraving & Lithographic Oprs/Tndrs	531	Precision Instrument Repairers
215	Opticians, Dispensing & Measuring	242	Photographers	603	Precision Metal Workers, NEC
198	Optometrists	714	Photographic Process Machine Oprs	593	Precision Production Occupations
335	Order Clerks: Materials, Service	638	Photographic Process Wkrs, Precision	475	Precision Production, Craft & Repair Occs
373	Order Fillers, Wholesale/Retail	98	Physical & Life Science Tchns/Tchnls, NEC	618	Precision Textile Workers, NEC
460	Other Agriculture & Forestry Occupations	94	Physical & Life Science Techns/Technols	609	Precision Woodworkers, NEC

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LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE
641	Precision Workers, NEC	784	Rail Transportation Workers	794	Seamen, Ordinary & Maine Oilers
653	Press Machine Setters/Oprs, M/P	575	Rail-Track Laying & Maint Equip Oprs	327	Secretaries, Except Legal or Medical
616	Pressers, Delicate Fabric	789	Railroad Brake, Signal & Switch Oprs	324	Secretaries, Total
753	Pressers, Hand	785	Railroad Conductors & Yardmasters	268	Securities/Commodities/Financial Svcs, SIs
710	Pressing Machine Oprs/Tndrs, Textiles	267	Real Estate Appraisers	299	Selected Insurance Workers
688	Print Press Machine Setters	322	Real Estate Clerks	644	Selected Machn Sttrs, Set-Up Oprs/Tndrs
697	Printing Press Machine Oprs/Tndrs	330	Receptionists & Information Clerks	433	Selected Personal Service Occs
691	Printing Press Setters/Oprs, NEC	126	Recreation Workers	732	Separating & Still Machn Sttrs/Oprs/Tndrs
695	Printing Setters/Oprs, NEC	208	Recreational Therapists	377	Service Occupations
619	Printing Workers, Precision	829	Refuse/Recyclable Material Collectors	448	Service Occupations, NEC
687	Printing, Binding, & Related Occs	211	Registered Nurses	798	Service Station Attendants
700	Printing, Binding, & Related Workers, NEC	560	Reinforcing Metal Workers	382	Service Supervisors, NEC
383	Private Household Workers	127	Religious Workers	378	Service Workers Supervisors
336	Procurement Clerks	130	Religious Workers, NEC	754	Sewers, Hand
253	Producers, Directors, Actors	239	Reporters & Correspondents	707	Sewing Machine Oprs, Garment
485	Production Inspectors, Graders	315	Reservation & Transportation Tckt Agnts	708	Sewing Machine Oprs, Non-Garment
367	Production, Planning & Expediting Clerks	124	Residential Counselors	437	Shampooers
476	Production/Construction/Maintenance Sprvs	204	Respiratory Therapists	654	Shear Machine Setters/Oprs, M/P
260	Prof, Paraprof, Techns, NEC	539	Riggers	579	Sheet Metal Duct Installers
25	Professional Specialty Occs	571	Road, Rail, Construction & Maintenance	601	Sheet Metal Workers
106	Programmers: Numerical Tool & Prcss Cntrl	718	Roasting & Drying Oprs/Tndrs, Fd/Tbcco	395	Sheriffs & Deputy Sheriffs
321	Proofreaders & Copy Markers	656	Rolling Machine Setters/Oprs, M/P	795	Ship Engineers
14	Property & Real Estate Mgrs	588	Roof Bolters, Mining	599	Shipfitters
388	Protective Service Occupations	580	Roofers	614	Shoe & Leather Workers, Precision
400	Protective Service Workers, NEC	63	Safety Engineers, Ex Mining	805	Shuttle Car Operators
468	Pruners	284	Sales & Related Workers, NEC	514	Signal & Track Switch Maintainers
422	Psychiatric Aides	271	Sales Agents, Advertising	631	Slaughterers & Meat Packers
232	Psychiatric Technicians	269	Sales Agents, Business	509	Small Engine Specialists
165	Psycholgy Teachers, Postsecondary	266	Sales Agents, Real Estate	121	Social & Recreation Wkrs
119	Psychologists	274	Sales Engineers	166	Social Sciences, Teachers, Pstscndry, NEC
238	Public Relations Specialists	276	Sales Representatives, Mfg & Wholesale	116	Social Scientists
811	Pump Operators	275	Sales Representatives, Science	120	Social Scientists, NEC
652	Punching Machine Setters/Oprs, M/P	272	Sales Reps, Services, NEC	115	Social Scientists, Recreation & Relig Occs
35	Purchasing Agents & Buyers	278	Salespersons, Parts	123	Social Workers, Ex Med, Psych
37	Purchasing Agts & Buyers, Farm	277	Salespersons, Retail	122	Social Workers, Med & Psych
38	Purchasing Agts, Ex Who/Ret/Farm	684	Sawing Machine Operators/Tenders	125	Social/Human Service Assistants
6	Purchasing Managers	682	Sawing Machine Setters/Set-Up Oprs	752	Solderers & Brazers
225	Radiation Therapists	645	Sawing Machine Tool Setters/Oprs, M/P	666	Soldering & Brazing Machine Oprs/Tndrs
515	Radio Mechanics	625	Scanner Operators	40	Special Agents, Insurance
227	Radiologic Technologists & Technicians	693	Screen Printing Machine Setters/Oprs	692	Specialty Material Printing Machine Sttrs
506	Rail Car Repairers	793	Seamen, Able	207	Speech Pathologists, Audiologists

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LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE
615	Spotters, Dry Cleaning	176	Teachers, Preschool, Educ Srvcs	800	Transportation Workers, NEC
469	Sprayers & Applicators	179	Teachers, Secondary School	270	Travel Agents
297	Statement Clerks	180	Teachers, Special Education	314	Travel Clerks
526	Station Installers & Repairers, Telephone	237	Technical Writers	777	Truck Drivers, Heavy
773	Stationary Engineers	513	Telegraph & Teletype Installers, Rprs	778	Truck Drivers, Light
337	Statistical Clerks	282	Telemarketers, Door-To-Door Sales	696	Typesetting & Composing Machine Oprs
111	Statisticians	518	Telephone & Cable TV Installers, Rprs	331	Typists, Incl Word Processing
329	Stenographers	354	Telephone Operators	28	Underwriters
828	Stevedores, Ex Equipment Operators	701	Textile & Related Setters/Oprs/Wkrs	613	Upholsterers
280	Stock Clerks, Sales Floor	706	Textile Bleach & Dye Machine Oprs/Tndrs	118	Urban & Regional Planners
372	Stock Clerks:Stockroom/Warehouse/Yard	705	Textile Draw-Out Machine Oprs/Tndrs	440	Ushers, Lobby Attendants, & Ticket Tkrs
557	Stone Masons	703	Textile Machine Oprs/Tndrs	500	Vehicle & Mobile Equipment Mechanics
582	Structural Metal Workers	702	Textile Machine Setters/Oprs	201	Veterinarians & Vet Inspectors
788	Subway & Streetcar Oprs	610	Textile, Apparel, Furnish Wkrs, Precision	471	Veterinary Assistants
453	Supervisors, Farm Workers	203	Therapists	233	Veterinary Technols/Techns
231	Surgical Technologists	209	Therapists, NEC	404	Waiters & Waitresses
79	Surveying & Mapping Techns	458	Timber Cutting Workers, NEC	444	Wardrobe & Dressing Room Attendants
71	Surveyors, Cartogrphrs & Photogramtrsts	715	Tire Building Machine Operators	767	Water & Waste Treatment Plant Oprs
355	Switchboard Operators	544	Tire Repairers & Changers	790	Water Transportation Occs
101	Systems Analysts	139	Title Examiners & Abstractors	370	Weighers, Measurers, Checkers
552	Tapers	138	Title Searchers	751	Welders & Cutters
48	Tax Examiners, Collectors, Revenue Agts	595	Tool & Die Makers	665	Welding Machine Operators/Tenders
31	Tax Preparers	597	Tool Grinders, Filers, & Sharpeners	664	Welding Machine Setters/Set-Up Oprs
781	Taxi Drivers & Chauffeurs	1	Total, All Occupations	306	Welfare Eligibility Workers
319	Teacher Aides & Educational Assts	257	Traffic Technicians	36	Wholesale/Retail Buyers, Ex Farm
193	Teacher Aides, Paraprofessional	374	Traffic, Shipping & Receiving Clerks	606	Wood Machinists
185	Teachers & Instructors, NEC	291	Transit Clerks	604	Woodworkers, Precision
175	Teachers & Instructors, Sec & Elem	775	Transportation & Material Mvng Machn Oprs	681	Woodworking Machine Setters/Oprs/Tndrs
181	Teachers & Instructors, VocED	814	Transportation & Mtrl Mvng Eqp Oprs, NEC	685	Woodworking Machn Setters, Ex Sawing
141	Teachers Librarians & Counselors	368	Transportation Agents	686	Woodwrkng Machn Oprs/Tndrs, Ex Sawing
178	Teachers, Elementary	443	Transportation Attendants	236	Writers & Editors
177	Teachers, Kindergarten, Educ Srvcs	486	Transportation Inspectors	235	Writers, Editors, Artists, Entertainers, Athlts

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
Virginia 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
1	Total, All Occupations	3,294,056	4,039,927	1,535,550	22.64%	78,945	74,610	153,555
2	Executive, Administrative & Managerial Occs	232,496	290,765	99,410	25.06%	4,116	5,825	9,941
3	Administrative Specialty Mgrs	59,569	79,255	29,890	33.05%	1,021	1,968	2,989
4	Financial Managers	16,981	20,628	6,340	21.48%	269	365	634
5	Human Resources Managers	5,696	7,247	2,880	27.23%	133	155	288
6	Purchasing Managers	3,796	4,257	1,310	12.14%	85	46	131
7	Marketing, Advertising, Public Rltns Mgrs	12,646	17,408	6,520	37.66%	176	476	652
8	Administrative Services Mgrs	9,065	12,296	4,820	35.64%	159	323	482
9	Engineering/Math/Computer/Ntrl Sci Mgrs	11,385	17,419	8,020	53.00%	199	603	802
10	Line & Middle Management	46,791	57,039	18,900	21.90%	866	1,024	1,890
11	Postmasters, Mail Superintendents	699	726	150	3.86%	12	3	15
12	Education Administrators	9,300	11,966	5,000	28.67%	233	267	500
13	Medical & Health Service Mgrs	3,628	5,114	2,130	40.96%	64	149	213
14	Property & Real Estate Mgrs	4,485	5,307	1,420	18.33%	60	82	142
15	Industrial Production Managers	4,088	4,020	720	-1.66%	72	-7	72
16	Construction Managers	8,386	9,890	2,970	17.93%	147	150	297
17	Mining & Related Managers	226	171	40	-24.34%	4	-6	4
18	Communication/Transportation/Utilities Mgrs	4,923	6,034	1,970	22.57%	86	111	197
19	Food Service & Lodging Mgrs	10,524	13,058	4,370	24.08%	184	253	437
20	Lawn Service Managers	500	710	250	42.00%	4	21	25
21	Other Managers & Administrators	126,136	154,471	50,620	22.46%	2,229	2,833	5,062
22	Government Chief Executives & Legislators	2,202	2,384	730	8.27%	55	18	73
23	General Managers & Top Executives	92,181	114,764	38,730	24.50%	1,615	2,258	3,873
24	Managers & Administrators, NEC	31,753	37,323	11,160	17.54%	559	557	1,116
25	Professional Specialty Occs	743,716	1,027,528	429,710	38.16%	14,581	28,390	42,971
26	Management Support Occs	119,435	148,484	52,270	24.32%	2,320	2,907	5,227
27	Accountants, Auditors, Financial Specialists	45,744	57,530	20,490	25.77%	869	1,180	2,049
28	Underwriters	2,229	2,567	970	15.16%	63	34	97
29	Credit Analysts	593	742	280	25.13%	13	15	28

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
Virginia 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
30	Loan Officers & Counselors	6,818	9,253	3,940	35.71%	150	244	394
31	Tax Preparers	1,697	2,265	940	33.47%	37	57	94
32	Accountants & Auditors	22,847	28,437	9,120	24.47%	353	559	912
33	Budget Analysts	3,339	3,905	1,300	16.95%	73	57	130
34	Financial Specialists, NEC	8,221	10,361	3,940	26.03%	180	214	394
35	Purchasing Agents & Buyers	10,631	11,787	3,870	10.87%	271	116	387
36	Wholesale/Retail Buyers, Ex Farm	2,381	2,509	710	5.38%	58	13	71
37	Purchasing Agts & Buyers, Farm	434	453	130	4.38%	11	2	13
38	Purchasing Agts, Ex Who/Ret/Farm	7,816	8,825	3,030	12.91%	202	101	303
39	Personnel Specialists, Related	14,998	18,766	7,760	25.12%	399	377	776
40	Special Agents, Insurance	494	598	230	21.05%	13	10	23
41	Employment Interviewers	3,118	4,083	1,800	30.95%	83	97	180
42	Human Res, Training, Labor Rltns Specs	11,339	14,035	5,720	23.78%	302	270	572
43	Other Management Support Workers	48,062	60,401	20,150	25.67%	781	1,234	2,015
44	Cost Estimators	4,102	4,845	1,240	18.11%	50	74	124
45	Management Analysts	10,902	15,138	5,100	38.86%	86	424	510
46	Construction, Bldg Inspectors	2,687	3,308	1,310	23.11%	69	62	131
47	Inspectors & Compliance Officers	5,080	5,731	1,570	12.81%	92	65	157
48	Tax Examiners, Collectors, Revenue Agts	1,507	1,646	470	9.22%	33	14	47
49	Assessors	663	779	270	17.50%	15	12	27
50	Claims Examiners, Insurance	836	1,020	320	22.01%	14	18	32
51	Management Support Workers, NEC	22,285	27,934	9,870	25.35%	422	565	987
52	Engineers & Related Occupations	95,423	135,845	59,520	42.36%	1,911	4,041	5,952
53	Engineers	57,680	89,427	42,350	55.04%	1,062	3,173	4,235
54	Aerospace Engineers	1,660	1,774	380	6.87%	27	11	38
55	Materials Engineers	297	360	130	21.21%	7	6	13
56	Mining Engineers, Incl Safety	120	89	30	-25.83%	3	-3	3
57	Chemical Engineers	1,004	1,164	390	15.94%	23	16	39
58	Nuclear Engineers	627	582	140	-7.18%	14	-5	14

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
Virginia 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
59	Civil Engineers, Incl Traffic	6,499	8,883	3,630	36.68%	125	238	363
60	Electrical & Electronics Engineers	10,416	14,029	5,830	34.69%	222	361	583
61	Computer Engineers	14,265	34,792	21,420	143.90%	89	2,053	2,142
62	Industrial Engineers, Ex Safety	2,442	2,745	650	12.41%	35	30	65
63	Safety Engineers, Ex Mining	619	742	210	19.87%	9	12	21
64	Mechanical Engineers	5,581	6,862	2,360	22.95%	108	128	236
65	Marine Engineers	179	211	70	17.88%	4	3	7
66	Engineers, NEC	13,868	17,054	7,130	22.97%	394	319	713
67	Architects & Surveyors	5,381	6,716	2,290	24.81%	95	134	229
68	Architects, Ex Landscape & Naval	3,027	4,097	1,520	35.35%	45	107	152
69	Marine Architects	252	237	60	-5.95%	6	-2	6
70	Landscape Architects	458	563	180	22.93%	7	11	18
71	Surveyors, Cartogrphrs & Photogrammtrsts	1,644	1,819	550	10.64%	37	18	55
72	Engineering Techns/Technols	32,362	39,702	14,880	22.68%	754	734	1,488
73	Civil Engineering Techns/Technols	2,252	3,166	1,490	40.59%	58	91	149
74	Electrical & Electronic Techns/Technols	8,559	10,695	3,890	24.96%	175	214	389
75	Industrial Engineering Techns/Technols	562	614	160	9.25%	11	5	16
76	Mechanical Engineering Techns/Technols	2,277	2,583	780	13.44%	47	31	78
77	Drafters	7,112	8,786	3,380	23.54%	171	167	338
78	Estimators & Drafters, Utilities	141	101	30	-28.37%	3	-4	3
79	Surveying & Mapping Techns	2,548	3,546	1,580	39.17%	58	100	158
80	Engineering Techns/Technols, NEC	8,911	10,211	3,610	14.59%	231	130	361
81	Natural Scientists & Related Occs	15,377	18,308	6,540	19.06%	361	293	654
82	Physical Scientists	6,316	7,379	2,610	16.83%	155	106	261
83	Physicists & Astronomers	535	562	170	5.05%	14	3	17
84	Chemists	1,947	1,958	440	0.56%	43	1	44
85	Atmospheric & Space Scientists	123	146	50	18.70%	3	2	5
86	Geologists, Geophysicists, Oceanogrphrs	1,218	1,789	880	46.88%	31	57	88
87	Physical Scientists, NEC	2,493	2,924	1,070	17.29%	64	43	107

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
Virginia 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
88	Life Scientists	3,840	4,931	1,970	28.41%	87	110	197
89	Foresters, Conservation Scientists	659	749	260	13.66%	17	9	26
90	Agricultural & Food Scientists	219	251	90	14.61%	6	3	9
91	Biological Scientists	1,905	2,603	1,100	36.64%	40	70	110
92	Medical Scientists	189	215	90	13.76%	6	3	9
93	Life Scientists, NEC	868	1,113	430	28.23%	18	25	43
94	Physical & Life Science Techns/Technols	5,221	5,998	1,960	14.88%	119	77	196
95	Biological, Agriculture & Food Techns	1,140	1,407	530	23.42%	26	27	53
96	Chemical Techns/Technols, Ex Health	1,439	1,510	400	4.93%	33	7	40
97	Petroleum Techns/Technols	94	106	30	12.77%	2	1	3
98	Physical & Life Science Tchns/Tchnls, NEC	2,500	2,904	970	16.16%	57	40	97
99	Computer & Math Occupations	81,791	155,844	87,440	90.54%	1,339	7,405	8,744
100	Computer Systems Anlsts/Engnrs/Scientists	76,562	149,699	85,320	95.53%	1,218	7,314	8,532
101	Systems Analysts	26,452	55,601	30,790	110.20%	164	2,915	3,079
102	Database Administrators	3,095	7,107	4,510	129.63%	50	401	451
103	Computer Support Specialists	15,019	35,929	21,840	139.22%	93	2,091	2,184
104	Computer Programmers	25,353	39,137	21,640	54.37%	786	1,378	2,164
105	Computer Programmer Aides	3,302	4,629	2,350	40.19%	102	133	235
106	Programmers: Numerical Tool & Prcss Cntrl	117	125	40	6.84%	3	1	4
107	Computer Scientists, NEC	3,224	7,171	4,150	122.43%	20	395	415
108	Computer/Math Scientists & Rsrch Anlsts	5,229	6,145	2,120	17.52%	121	91	212
109	Operations Research Analysts	2,656	3,044	1,220	14.61%	83	39	122
110	Mathematical Scientists	359	388	80	8.08%	5	3	8
111	Statisticians	786	903	230	14.89%	11	12	23
112	Actuaries	192	236	70	22.92%	3	4	7
113	Financial Analysts, Statistical	856	1,268	540	48.13%	13	41	54
114	Mathematical Scientist, NEC	345	276	50	-20.00%	5	-7	5
115	Social Scientists, Recreation & Relig Occs	38,620	53,235	22,080	37.84%	744	1,464	2,208
116	Social Scientists	8,957	11,053	3,900	23.40%	180	210	390

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
 Virginia 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
117	Economists	1,795	2,462	1,040	37.16%	37	67	104
118	Urban & Regional Planners	2,498	3,160	1,170	26.50%	51	66	117
119	Psychologists	2,034	2,593	940	27.48%	38	56	94
120	Social Scientists, NEC	2,630	2,838	750	7.91%	54	21	75
121	Social & Recreation Wkrs	28,779	40,976	17,690	42.38%	548	1,221	1,769
122	Social Workers, Med & Psych	5,699	8,106	3,150	42.24%	74	241	315
123	Social Workers, Ex Med, Psych	9,045	12,780	4,910	41.29%	117	374	491
124	Residential Counselors	3,155	5,072	2,640	60.76%	72	192	264
125	Social/Human Service Assistants	6,516	9,371	4,560	43.82%	170	286	456
126	Recreation Workers	4,364	5,647	2,430	29.40%	115	128	243
127	Religious Workers	884	1,206	490	36.43%	16	33	49
128	Clergy	392	508	200	29.59%	8	12	20
129	Directors, Religious Activities/Education	310	461	200	48.71%	5	15	20
130	Religious Workers, NEC	182	237	90	30.22%	3	6	9
131	Law & Related Occupations	19,256	24,560	7,360	27.54%	206	530	736
132	Lawyers & Judicial Workers	12,393	15,515	4,560	25.19%	144	312	456
133	Adjudicators, Hearing Officers	1,781	1,760	270	-1.18%	27	-2	27
134	Lawyers	10,559	13,703	4,300	29.78%	116	314	430
135	Legal Assistants & Technicians	6,863	9,045	2,800	31.79%	62	218	280
136	Law Clerks	1,918	1,745	210	-9.02%	21	-17	21
137	Paralegals & Legal Assistants	3,656	5,865	2,520	60.42%	31	221	252
138	Title Searchers	279	273	20	-2.15%	2	-1	2
139	Title Examiners & Abstractors	296	290	20	-2.03%	2	-1	2
140	Legal Assistants, NEC	714	872	220	22.13%	6	16	22
141	Teachers Librarians & Counselors	172,714	231,480	95,360	34.03%	3,657	5,879	9,536
142	College & University Faculty	22,944	32,604	15,920	42.10%	624	968	1,592
143	Lecturers	591	706	230	19.46%	11	12	23
144	Nursing Instructors	683	922	370	34.99%	13	24	37
145	Graduate Assistants, Teaching	1,637	2,252	1,070	37.57%	45	62	107

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
146	Life Sciences Teachers, Postsecondary	662	988	510	49.24%	18	33	51
147	Chemistry Teachers, Postsecondary	327	452	220	38.23%	9	13	22
148	Physics Teachers, Postsecondary	224	309	150	37.95%	6	9	15
149	Physical Science Teachers, Pstscndry, NEC	364	502	240	37.91%	10	14	24
150	Health Diagnostics Teachers, Pstscndry	2,009	3,260	1,810	62.27%	56	125	181
151	Health Specialties Teachers, Pstscndry	397	650	360	63.73%	11	25	36
152	Communications Teachers, Pstscndry	192	301	160	56.77%	5	11	16
153	English Lang/Lit Teachers, Pstscndry	1,283	1,775	850	38.35%	36	49	85
154	Foreign Lang/Lit Teachers, Pstscndry	546	754	360	38.10%	15	21	36
155	Art, Drama & Music Teachers, Pstscndry	1,006	1,436	710	42.74%	28	43	71
156	Engineering Teachers, Postsecondary	720	994	470	38.06%	20	27	47
157	Architecture Teachers, Postsecondary	152	210	100	38.16%	4	6	10
158	Math & Science Teachers, Pstscndry	1,001	1,382	660	38.06%	28	38	66
159	Computer Science Teachers, Pstscndry	710	1,218	710	71.55%	20	51	71
160	Anthropology/Sociology Tchrs, Pstscndry	402	554	260	37.81%	11	15	26
161	Area/Ethnic/Cultural Studies Tchrs, Pstsc	130	179	90	37.69%	4	5	9
162	Economics Teachers, Postsecondary	341	471	220	38.12%	9	13	22
163	History Teachers, Postsecondary	619	854	410	37.96%	17	24	41
164	Political Science Teachers, Postsecondary	344	475	230	38.08%	10	13	23
165	Psycholgy Teachers, Postsecondary	594	819	390	37.88%	16	23	39
166	Social Sciences, Teachers, Pstscndry, NEC	250	345	170	38.00%	7	10	17
167	Business Teachers, Postsecondary	1,528	2,152	1,040	40.84%	42	62	104
168	Law Teachers, Postsecondary	368	537	270	45.92%	10	17	27
169	Criminal Justice/Law Enfrcmnt Tchrs, Pstsc	154	214	100	38.96%	4	6	10
170	Education Teachers, Postsecondary	697	962	460	38.02%	19	27	46
171	Philosphy/Religion Teachers, Pstscndry	353	487	230	37.96%	10	13	23
172	Parks/Rec/Leisure/Fitns Stds Teachers	165	279	160	69.09%	5	11	16
173	Home Economics Teachers, Pstscndry	101	111	40	9.90%	3	1	4
174	Postsecondary Teachers, NEC	4,232	5,836	2,770	37.90%	117	160	277

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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
175	Teachers & Instructors, Sec & Elem	121,595	160,398	64,380	31.91%	2,557	3,881	6,438
176	Teachers, Preschool, Educ Srvcs	8,161	12,549	6,130	53.77%	174	439	613
177	Teachers, Kindergarten, Educ Srvcs	3,460	4,350	1,630	25.72%	74	89	163
178	Teachers, Elementary	36,538	44,686	16,590	22.30%	844	815	1,659
179	Teachers, Secondary School	33,176	44,562	21,980	34.32%	1,059	1,139	2,198
180	Teachers, Special Education	8,402	12,306	4,610	46.47%	71	390	461
181	Teachers & Instructors, VocED	5,202	7,254	2,600	39.45%	55	205	260
182	Instructors, Adult (Non-VocEd)	1,740	2,952	1,390	69.66%	18	121	139
183	Instructors & Coaches, Sports	8,552	11,954	4,300	39.78%	90	340	430
184	Farm & Home Management Advisors	494	400	50	-19.03%	5	-9	5
185	Teachers & Instructors, NEC	15,870	19,385	5,190	22.15%	167	352	519
186	Librarians, Archivists, Curators	28,175	38,478	15,060	36.57%	476	1,030	1,506
187	Librarians	4,643	5,267	1,810	13.44%	119	62	181
188	Library Technicians	2,228	2,702	1,080	21.27%	61	47	108
189	Audio-Visual Specialists	372	398	80	6.99%	5	3	8
190	Curators, Archivists & Museum Techns	393	443	160	12.72%	11	5	16
191	Counselors, Vocational Education	4,189	5,714	2,490	36.40%	96	153	249
192	Instructional Coordinators	3,445	5,027	1,940	45.92%	36	158	194
193	Teacher Aides, Paraprofessional	12,905	18,927	7,500	46.66%	148	602	750
194	Health Practitioners/Techns/Technols	134,460	176,038	66,600	30.92%	2,499	4,161	6,660
195	Health Diagnosing Occs	15,686	21,539	8,510	37.31%	265	586	851
196	Physicians	11,509	16,032	6,320	39.30%	180	452	632
197	Dentists	2,127	2,653	960	24.73%	43	53	96
198	Optometrists	483	601	220	24.43%	10	12	22
199	Podiatrist s	100	129	50	29.00%	2	3	5
200	Chiropractors	211	376	210	78.20%	4	17	21
201	Veterinarians & Vet Inspectors	1,134	1,507	600	32.89%	23	37	60
202	Health Practitioners, NEC	122	241	150	97.54%	3	12	15
203	Therapists	9,090	13,407	5,690	47.49%	137	432	569

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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
204	Respiratory Therapists	1,663	2,424	1,010	45.76%	25	76	101
205	Occupational Therapists	1,526	2,209	910	44.76%	23	68	91
206	Physical Therapists	2,625	3,914	1,680	49.10%	39	129	168
207	Speech Pathologists, Audiologists	2,106	3,334	1,550	58.31%	32	123	155
208	Recreational Therapists	549	642	170	16.94%	8	9	17
209	Therapists, NEC	573	829	350	44.68%	9	26	35
210	Health Assessment & Treatment Occpntns	77,141	97,761	35,100	26.73%	1,447	2,063	3,510
211	Registered Nurses	45,568	57,867	19,820	26.99%	752	1,230	1,982
212	Licensed Practical/Vocational Nurses	17,883	23,004	8,950	28.64%	383	512	895
213	Emergency Medical Techns & Paramedics	1,722	2,331	1,040	35.37%	43	61	104
214	Physician Assistants	1,318	2,201	1,100	67.00%	22	88	110
215	Opticians, Dispensing & Measuring	1,702	2,051	560	20.51%	21	35	56
216	Pharmacists	4,425	4,902	1,690	10.78%	121	48	169
217	Pharmacy Technicians	2,909	3,416	1,230	17.43%	72	51	123
218	Dietitians & Nutritionists	1,109	1,347	470	21.46%	23	24	47
219	Dietetic Technicians	505	642	240	27.13%	10	14	24
220	Health Technicians & Technologists	32,543	43,331	17,300	33.15%	650	1,080	1,730
221	Medical & Clinical Lab Technologists	3,209	3,668	870	14.30%	41	46	87
222	Medical & Clinical Lab Technicians	2,804	3,589	1,150	28.00%	36	79	115
223	Dental Hygienists	3,086	4,621	2,230	49.74%	69	154	223
224	Medical Records & Health Info Techns	1,401	2,083	1,030	48.68%	35	68	103
225	Radiation Therapists	277	301	60	8.66%	4	2	6
226	Nuclear Medicine Technologists	256	285	70	11.33%	4	3	7
227	Radiologic Technologists & Technicians	4,111	5,001	1,460	21.65%	57	89	146
228	Electroneurodiagnostic Techns	166	167	40	0.60%	4	0	4
229	Cardiology Technols/Techns	695	1,022	500	47.05%	17	33	50
230	EKG Technicians	354	334	90	-5.65%	9	-2	9
231	Surgical Technologists	860	1,236	590	43.72%	21	38	59
232	Psychiatric Technicians	2,283	2,338	380	2.41%	32	6	38

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
Virginia 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
233	Veterinary Technols/Techns	989	1,143	380	15.57%	23	15	38
234	Health Prof, Paraprof, & Techns, NEC	12,052	17,543	8,470	45.56%	298	549	847
235	Writers, Editors, Artists, Entertainers, Athlts	30,314	39,260	15,590	29.51%	664	895	1,559
236	Writers & Editors	4,098	5,525	2,510	34.82%	108	143	251
237	Technical Writers	2,021	3,344	1,850	65.46%	53	132	185
238	Public Relations Specialists	3,126	4,275	1,970	36.76%	82	115	197
239	Reporters & Correspondents	1,465	1,432	460	-2.25%	46	-3	46
240	Broadcast News Analysts	151	158	50	4.64%	4	1	5
241	Announcers, Radio & TV	1,238	1,152	300	-6.95%	30	-9	30
242	Photographers	1,426	1,551	340	8.77%	21	13	34
243	Camera Operators, TV/Movie/Video	231	315	110	36.36%	3	8	11
244	Broadcast & Sound Technicians	811	837	250	3.21%	22	3	25
245	Film Editors	168	198	80	17.86%	5	3	8
246	Artists & Commercial Artists	3,445	4,594	1,860	33.35%	71	115	186
247	Designers, Ex Interior Designers	5,992	7,492	2,370	25.03%	87	150	237
248	Interior Designers	977	1,418	580	45.14%	14	44	58
249	Merchandise Displayers & Windw Drssrs	679	791	210	16.49%	10	11	21
250	Music Directors, Singers & Related Wkrs	394	545	230	38.32%	8	15	23
251	Musicians, Instrumental	926	1,267	520	36.83%	18	34	52
252	Dancers & Choreographers	286	301	80	5.24%	6	2	8
253	Producers, Directors, Actors	1,936	2,716	1,210	40.29%	43	78	121
254	Athletes, Coaches, Umpires	940	1,342	730	42.77%	33	40	73
255	Other Prof, Paraprof, Techns	36,326	44,474	16,950	22.43%	880	815	1,695
256	Air Traffic Controllers	1,226	1,198	340	-2.28%	34	-3	34
257	Traffic Technicians	564	498	150	-11.70%	15	-7	15
258	Funeral Directors & Morticians	772	857	230	11.01%	14	9	23
259	Embalmers	279	288	90	3.23%	8	1	9
260	Prof, Paraprof, Techns, NEC	33,396	41,539	16,210	24.38%	807	814	1,621
261	Marketing & Sales Occupations	390,677	479,141	207,150	22.64%	11,867	8,848	20,715

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
Virginia 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
262	Marketing & Sales Supervisors	42,785	53,262	16,070	24.49%	559	1,048	1,607
263	Marketing & Sales, Service	35,281	48,004	20,510	36.06%	778	1,273	2,051
264	Insurance Sales Workers	6,461	7,652	2,660	18.43%	147	119	266
265	Brokers, Real Estate	561	624	170	11.23%	11	6	17
266	Sales Agents, Real Estate	2,923	3,230	900	10.50%	59	31	90
267	Real Estate Appraisers	920	1,065	340	15.76%	19	15	34
268	Securities/Commodities/Financial Svcs, SIs	4,395	6,371	2,310	44.96%	33	198	231
269	Sales Agents, Business	8,896	13,536	6,470	52.16%	183	464	647
270	Travel Agents	3,533	4,453	1,660	26.04%	74	92	166
271	Sales Agents, Advertising	3,071	3,734	1,510	21.59%	85	66	151
272	Sales Reps, Services, NEC	4,521	7,339	4,490	62.33%	167	282	449
273	Other Sales Workers	312,611	377,875	170,570	20.88%	10,530	6,527	17,057
274	Sales Engineers	2,940	3,547	1,180	20.65%	57	61	118
275	Sales Representatives, Science	10,977	13,400	5,100	22.07%	268	242	510
276	Sales Representatives, Mfg & Wholesale	24,457	26,883	8,400	9.92%	597	243	840
277	Salespersons, Retail	112,495	135,207	60,840	20.19%	3,813	2,271	6,084
278	Salespersons, Parts	6,755	6,985	2,170	3.40%	194	23	217
279	Counter & Rental Clerks	12,330	15,552	8,560	26.13%	534	322	856
280	Stock Clerks, Sales Floor	26,390	27,353	4,940	3.65%	398	96	494
281	Cashiers	90,673	112,125	60,960	23.66%	3,951	2,145	6,096
282	Telemarketers, Door-To-Door Sales	13,056	21,104	11,410	61.64%	336	805	1,141
283	Demonstrators/Product Promoters	1,219	1,715	830	40.69%	33	50	83
284	Sales & Related Workers, NEC	11,249	13,905	6,130	23.61%	347	266	613
285	Administrative Support Occs, Clerical	548,916	643,162	208,690	17.17%	11,442	9,427	20,869
286	Administrative Support Supervisors	41,579	53,855	21,640	29.52%	936	1,228	2,164
287	Industry Specific Support Occs	95,524	119,477	46,010	25.08%	2,205	2,396	4,601
288	Bank, Security, Finance, Credit Workers	43,484	53,725	20,130	23.55%	988	1,025	2,013
289	Bank Tellers	15,929	15,553	6,840	-2.36%	684	-38	684
290	New Accounts Clerks, Banking	2,936	3,987	1,990	35.80%	94	105	199

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
Virginia 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
291	Transit Clerks	504	422	150	-16.27%	15	-8	15
292	Loan Interviewers	857	833	90	-2.80%	9	-2	9
293	Credit Authorizers	553	628	140	13.56%	6	8	14
294	Credit Checkers	1,828	2,482	770	35.78%	12	65	77
295	Loan & Credit Clerks	5,006	6,727	2,250	34.38%	53	172	225
296	Adjustment Clerks	14,105	21,003	7,820	48.90%	92	690	782
297	Statement Clerks	444	361	60	-18.69%	6	-8	6
298	Brokerage Clerks	1,322	1,729	580	30.79%	17	41	58
299	Selected Insurance Workers	11,532	14,426	4,650	25.10%	176	289	465
300	Insurance Adjusters/Examiners/Invstgtrs	3,468	4,652	1,760	34.14%	58	118	176
301	Insurance Appraisers, Auto Damage	257	331	110	28.79%	4	7	11
302	Insurance Examining Clerks	140	175	60	25.00%	2	4	6
303	Insurance Claims Clerks	3,291	4,143	1,400	25.89%	55	85	140
304	Insurance Policy Processing Clerks	4,376	5,125	1,320	17.12%	57	75	132
305	Investigative & Related Workers	9,597	13,040	5,780	35.88%	234	344	578
306	Welfare Eligibility Workers	3,078	2,936	660	-4.61%	66	-14	66
307	Investigators, Clerical	233	337	120	44.64%	2	10	12
308	Bill & Account Collectors	6,286	9,767	5,140	55.38%	166	348	514
309	Court, Municipal, License Clerks	2,224	2,558	680	15.02%	35	33	68
310	Court Clerks	833	977	270	17.29%	13	14	27
311	Municipal Clerks	268	315	90	17.54%	4	5	9
312	License Clerks	1,123	1,266	320	12.73%	18	14	32
313	Lodging & Travel Workers	11,447	13,003	4,970	13.59%	341	156	497
314	Travel Clerks	445	539	180	21.12%	9	9	18
315	Reservation & Transportation Tckt Agnts	5,260	5,917	1,770	12.49%	111	66	177
316	Hotel/Motel/Resort Desk Clerks	5,742	6,547	3,020	14.02%	221	81	302
317	Industry Specific Workers, NEC	17,240	22,725	9,800	31.82%	431	549	980
318	Library Assistants & Bookmobile Drivers	4,352	5,494	3,250	26.24%	211	114	325
319	Teacher Aides & Educational Assts	8,482	12,306	4,790	45.08%	97	382	479

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
320	Advertising Clerks	306	314	80	2.61%	7	1	8
321	Proofreaders & Copy Markers	797	703	250	-11.79%	25	-9	25
322	Real Estate Clerks	3,303	3,908	1,520	18.32%	91	61	152
323	General Office & Secretarial Workers	281,442	325,778	104,390	15.75%	6,006	4,433	10,439
324	Secretaries, Total	74,122	80,308	18,270	8.35%	1,209	618	1,827
325	Legal Secretaries	4,920	5,753	1,630	16.93%	80	83	163
326	Medical Secretaries	4,178	4,962	1,460	18.76%	68	78	146
327	Secretaries, Except Legal or Medical	65,024	69,593	15,180	7.03%	1,061	457	1,518
328	General Office Occupations	207,320	245,470	86,120	18.40%	4,797	3,815	8,612
329	Stenographers	1,833	2,325	790	26.84%	30	49	79
330	Receptionists & Information Clerks	35,209	48,089	19,620	36.58%	674	1,288	1,962
331	Typists, Incl Word Processing	7,153	6,558	1,390	-8.32%	139	-60	139
332	Human Resources Clerks, Ex Payroll/Time	4,044	3,952	760	-2.27%	76	-9	76
333	Correspondence Clerks	589	688	240	16.81%	14	10	24
334	File Clerks	4,972	6,033	2,790	21.34%	173	106	279
335	Order Clerks: Materials, Service	9,337	10,567	3,460	13.17%	223	123	346
336	Procurement Clerks	1,632	1,370	250	-16.05%	25	-26	25
337	Statistical Clerks	1,528	1,627	310	6.48%	21	10	31
338	Interview Clerks, Except Personnel	3,826	5,015	2,420	31.08%	123	119	242
339	Customer Service Representatives	5,932	7,020	2,510	18.34%	142	109	251
340	Bookkeeping, Accounting, Audit Clerks	41,894	43,825	9,750	4.61%	782	193	975
341	Payroll & Timekeeping Clerks	4,244	4,233	840	-0.26%	84	-1	84
342	Billing, Cost & Rate Clerks	8,474	10,497	3,700	23.87%	168	202	370
343	General Office Clerks	76,653	93,671	38,250	22.20%	2,123	1,702	3,825
344	Electronic Data Procsssng & Offc Machn Wkrs	27,948	30,342	6,510	8.57%	410	241	651
345	Billing, Posting & Calculating Machn Oprs	2,238	2,453	660	9.61%	44	22	66
346	Duplicating Machine Operators	1,428	1,763	760	23.46%	42	34	76
347	Mail Machine Operators	1,217	1,372	520	12.74%	36	16	52
348	Computer Operators, Ex Peripheral	7,847	6,408	1,110	-18.34%	111	-144	111

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
349	Peripheral EDP Equipment Operators	855	551	120	-35.56%	12	-30	12
350	Data Entry Keyers, Ex Composing	11,248	14,818	4,430	31.74%	86	357	443
351	Data Entry Keyers, Composing	604	522	50	-13.58%	5	-8	5
352	Office Machine Operators, NEC	2,511	2,455	740	-2.23%	74	-6	74
353	Communication Equip Oprs, Mail Wrkrs	21,303	22,266	6,100	4.52%	515	95	610
354	Telephone Operators	6,665	5,864	1,460	-12.02%	146	-81	146
355	Switchboard Operators	4,769	4,508	1,040	-5.47%	104	-26	104
356	Directory Assistance Operators	864	530	190	-38.66%	19	-33	19
357	Central Office Operators	231	186	50	-19.48%	5	-5	5
358	Communication Equipment Oprs, NEC	757	602	170	-20.48%	17	-16	17
359	Mail & Message Distribution Workers	14,638	16,402	5,450	12.05%	369	176	545
360	Mail Clerks, Ex Mail Machine	3,025	3,501	1,200	15.74%	72	48	120
361	Postal Mail Carriers	7,946	8,610	2,890	8.36%	223	66	289
362	Postal Service Clerks	1,738	1,878	420	8.06%	28	14	42
363	Messengers	1,929	2,413	940	25.09%	46	48	94
364	Material Recordg/Schedulg/Distributg Occs	61,425	67,669	16,790	10.17%	1,053	626	1,679
365	Dispatchers: Police, Fire, & Ambulance	1,728	1,914	470	10.76%	28	19	47
366	Dispatchers, Ex Police, Fire & Ambulance	3,745	4,446	1,310	18.72%	61	70	131
367	Production, Planning & Expediting Clerks	5,200	5,519	930	6.13%	61	32	93
368	Transportation Agents	344	406	80	18.02%	2	6	8
369	Meter Readers, Utilities	1,190	1,265	380	6.30%	30	8	38
370	Weighers, Measurers, Checkers	938	928	240	-1.07%	24	-1	24
371	Marking Clerks	652	565	160	-13.34%	16	-9	16
372	Stock Clerks:Stockroom/Warehouse/Yard	18,841	21,166	5,170	12.34%	284	233	517
373	Order Fillers, Wholesale/Retail	4,127	5,092	1,960	23.38%	99	97	196
374	Traffic, Shipping & Receiving Clerks	20,294	21,759	4,850	7.22%	338	147	485
375	Material Recording Workers, NEC	4,366	4,609	1,340	5.57%	110	24	134
376	Clerical Occupations, NEC	19,695	23,775	7,250	20.72%	317	408	725
377	Service Occupations	491,042	618,251	283,450	25.91%	15,617	12,728	28,345

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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
378	Service Workers Supervisors	23,910	29,948	11,880	25.25%	583	605	1,188
379	Fire Fighting & Prevention Supervisors	1,719	1,971	820	14.66%	57	25	82
380	Police & Detective Supervisors	2,940	3,395	1,310	15.48%	85	46	131
381	Institutional Cleaning Supervisors	2,647	3,062	1,040	15.68%	62	42	104
382	Service Supervisors, NEC	16,604	21,520	8,710	29.61%	379	492	871
383	Private Household Workers	8,702	8,618	2,530	-0.97%	253	-8	253
384	Cooks, Private Household	130	78	30	-40.00%	3	-5	3
385	Housekeepers & Butlers, Private	398	257	90	-35.43%	9	-14	9
386	Child Care Workers, Private	2,595	2,142	1,190	-17.46%	119	-45	119
387	Cleaners & Servants, Private	5,573	6,134	1,780	10.07%	122	56	178
388	Protective Service Occupations	57,786	77,310	36,280	33.79%	1,674	1,954	3,628
389	Fire Fighters	3,128	3,234	880	3.39%	77	11	88
390	Police Detectives	923	1,192	520	29.14%	25	27	52
391	Police Patrol Officers	8,306	11,236	5,140	35.28%	221	293	514
392	Correctional Officers	10,772	15,225	7,400	41.34%	295	445	740
393	Bailiffs	117	123	20	5.13%	1	1	2
394	Criminal Investigators, Federal	930	1,017	340	9.35%	25	9	34
395	Sheriffs & Deputy Sheriffs	2,802	3,949	1,410	40.94%	26	115	141
396	Detectives, Except Public	413	479	170	15.98%	10	7	17
397	Fish & Game Wardens	244	262	40	7.38%	2	2	4
398	Crossing Guards	680	760	280	11.76%	20	8	28
399	Guards	23,782	32,558	14,710	36.90%	593	878	1,471
400	Protective Service Workers, NEC	5,514	7,088	5,330	28.55%	376	157	533
401	Food & Beverage Preparation	205,645	246,651	133,950	19.94%	9,292	4,103	13,395
402	Hosts & Hostesses:Restaurant, Lounge	6,109	7,828	3,580	28.14%	186	172	358
403	Bartenders	5,393	5,861	2,780	8.68%	231	47	278
404	Waiters & Waitresses	49,047	59,852	37,830	22.03%	2,702	1,081	3,783
405	Food Servers	2,008	2,545	2,210	26.74%	167	54	221
406	Dining Room & Cafeteria Helpers	9,522	10,813	4,190	13.56%	290	129	419

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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
407	Counter Attendants, Lunchroom	4,998	5,995	5,150	19.95%	415	100	515
408	Bakers, Bread & Pastry	3,266	4,077	1,660	24.83%	85	81	166
409	Butchers & Meatcutters, Retail	2,727	2,524	650	-7.44%	65	-20	65
410	Cooks, Restaurant	18,932	23,752	9,770	25.46%	495	482	977
411	Cooks, Institution or Cafeteria	7,024	8,236	3,040	17.26%	183	121	304
412	Cooks, Fast Food	20,202	25,289	10,370	25.18%	528	509	1,037
413	Cooks, Short Order	4,535	5,661	2,310	24.83%	118	113	231
414	Food Preparation Workers	27,423	32,205	19,890	17.44%	1,511	478	1,989
415	Combined Food Prep & Serv Workers	36,451	43,058	26,690	18.13%	2,008	661	2,669
416	Food Prep & Service Workers, NEC	8,008	8,955	4,030	11.83%	308	95	403
417	Health Service Occupations	61,579	90,841	39,430	47.52%	1,017	2,926	3,943
418	Dental Assistants	5,684	8,549	3,740	50.40%	87	287	374
419	Medical Assistants	5,753	9,502	5,170	65.17%	142	375	517
420	Nursing Aides & Orderlies	27,770	38,588	14,690	38.96%	387	1,082	1,469
421	Home Health Aides	11,505	20,159	10,250	75.22%	160	865	1,025
422	Psychiatric Aides	1,874	1,853	260	-1.12%	26	-2	26
423	Physical, Corrective Therapy Assistants	1,707	2,701	1,410	58.23%	42	99	141
424	Occupational Therapy Assistants	511	835	450	63.41%	13	32	45
425	Ambulance Drivers & Attendants, Ex EMT	867	1,254	590	44.64%	20	39	59
426	Pharmacy Assistants	1,546	1,896	730	22.64%	38	35	73
427	Health Service Workers, NEC	4,362	5,504	2,160	26.18%	102	114	216
428	Cleaning & Building Service Occupations	86,970	103,117	34,170	18.57%	1,803	1,614	3,417
429	Maids & Housekeeping Cleaners	26,674	32,088	10,370	20.30%	496	541	1,037
430	Janitors & Cleaners	53,246	62,998	21,310	18.31%	1,156	975	2,131
431	Pest Controllers & Assistants	2,078	2,698	1,090	29.84%	47	62	109
432	Cleaning/Bldg Serv Wrks, NEC	4,969	5,331	1,400	7.29%	104	36	140
433	Selected Personal Service Occs	39,339	53,129	21,760	35.05%	795	1,381	2,176
434	Barbers	401	335	110	-16.46%	11	-7	11
435	Hairdressers & Hairstylists	11,004	12,250	4,080	11.32%	283	125	408

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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
436	Manicurists	656	843	360	28.51%	17	19	36
437	Shampooers	1,254	1,441	510	14.91%	32	19	51
438	Amusement & Recreation Attendants	5,059	7,472	3,340	47.70%	93	241	334
439	Guides	1,025	1,412	580	37.76%	19	39	58
440	Ushers, Lobby Attendants, & Ticket Tkrs	2,246	3,114	1,280	38.65%	41	87	128
441	Baggage Porters & Bellhops	690	782	220	13.33%	13	9	22
442	Flight Attendants	2,573	3,735	1,710	45.16%	55	116	171
443	Transportation Attendants	966	752	210	-22.15%	21	-21	21
444	Wardrobe & Dressing Room Attendants	158	234	120	48.10%	4	8	12
445	Personal & Home Care Aides	3,342	5,628	3,160	68.40%	87	229	316
446	Child Care Workers	8,823	13,879	5,930	57.30%	87	506	593
447	Funeral Attendants	1,142	1,252	430	9.63%	32	11	43
448	Service Occupations, NEC	7,111	8,637	3,530	21.46%	200	153	353
449	Agriculture, Forestry, & Fishing Occupations	88,280	91,041	27,200	3.13%	2,445	275	2,720
450	Farm Operators & Managers	8,979	9,114	1,500	1.50%	137	13	150
451	Farm Managers	5,911	5,780	990	-2.22%	99	-13	99
452	First Line Supervisors: Ag, Forest, Fish	1,963	2,396	720	22.06%	29	43	72
453	Supervisors, Farm Workers	1,098	932	90	-15.12%	9	-17	9
454	Forest & Logging Occupations	2,107	2,126	450	0.90%	44	1	45
455	Fallers & Buckers	311	284	80	-8.68%	8	-3	8
456	Log Handling Equipment Operators	874	903	250	3.32%	22	3	25
457	Logging Tractor Operators	679	720	120	6.04%	8	4	12
458	Timber Cutting Workers, NEC	203	184	50	-9.36%	5	-2	5
459	Farm Occupations	14,654	12,250	4,510	-16.41%	451	-240	451
460	Other Agriculture & Forestry Occupations	62,498	67,523	23,150	8.04%	1,813	502	2,315
461	Gardening, Nursery, Lawn Occs	845	750	170	-11.24%	17	-10	17
462	Forest & Conservation Workers	408	418	100	2.45%	9	1	10
463	Log Graders & Scalers	217	204	50	-5.99%	5	-1	5
464	Graders & Sorters, Ag Products	765	838	260	9.54%	19	7	26

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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
465	Animal Trainers	117	127	40	8.55%	3	1	4
466	Animal Caretakers, Ex Farm	2,796	3,535	1,140	26.43%	40	74	114
467	Farm Equipment Operators	14,687	13,068	4,520	-11.02%	452	-162	452
468	Pruners	755	977	450	29.40%	23	22	45
469	Sprayers & Applicators	424	526	220	24.06%	12	10	22
470	Laborers, Landscapers, & Groundskprs	23,144	29,296	13,050	26.58%	690	615	1,305
471	Veterinary Assistants	1,299	1,669	560	28.48%	19	37	56
472	Farm Workers, Food & Fiber Crops	182	237	120	30.22%	6	6	12
473	Farm Workers, Farm & Ranch Animals	462	597	280	29.22%	14	14	28
474	Agriculture, Forestry, Fishing Wkrs, NEC	16,380	15,263	5,040	-6.82%	504	-112	504
475	Precision Production, Craft & Repair Occs	332,441	367,924	114,090	10.67%	7,866	3,543	11,409
476	Production/Construction/Maintenance Sprvs	52,473	58,127	20,130	10.78%	1,448	565	2,013
477	First Line Supervisors: Mechanics & Rprs	12,519	14,142	5,330	12.96%	371	162	533
478	First Line Supervisors: Constrctn, Extrctn	12,509	14,239	5,060	13.83%	333	173	506
479	First Line Supervisors: Productn/Operatg	13,385	13,362	3,750	-0.17%	375	-2	375
480	First Line Supervisors: Transportation	4,451	5,108	1,800	14.76%	114	66	180
481	First Line Supervisors: Helpers, Laborers	3,885	4,378	1,520	12.69%	103	49	152
482	Construction & Rltd Supervisors, NEC	5,724	6,898	2,690	20.51%	152	117	269
483	Inspectors	14,696	13,824	3,260	-5.93%	326	-87	326
484	Inspectors, Testers, Graders, Precision	3,315	2,957	680	-10.80%	68	-36	68
485	Production Inspectors, Graders	9,374	8,395	2,130	-10.44%	213	-98	213
486	Transportation Inspectors	301	298	60	-1.00%	6	0	6
487	Inspectors, Testers, NEC	1,706	2,174	860	27.43%	39	47	86
488	Mechanics, Installers, & Repairers	124,252	140,976	46,450	13.46%	2,974	1,671	4,645
489	Machinery: Mechanic, Installer, Repairer	43,182	47,049	13,660	8.96%	979	387	1,366
490	Industrial Machinery Mechanics	5,734	6,082	1,640	6.07%	129	35	164
491	Machinery Mechanics: Textile	1,596	1,694	460	6.14%	36	10	46
492	Machinery Mechanics: Sewing	269	229	60	-14.87%	6	-4	6
493	Machinery Mechanics: Marine	701	728	190	3.85%	16	3	19

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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
494	Mine Machinery Mechanics	396	265	100	-33.08%	10	-13	10
495	Machinery Mechanics: Water & Power	1,408	1,517	430	7.74%	32	11	43
496	Machinery Mechanics, NEC	1,064	1,029	240	-3.29%	24	-4	24
497	Millwrights	1,824	1,926	600	5.59%	50	10	60
498	Machinery Maintenance Workers	2,091	2,211	590	5.74%	47	12	59
499	Maintenance Repairers, General Utility	28,062	31,332	9,550	11.65%	628	327	955
500	Vehicle & Mobile Equipment Mechanics	34,991	40,598	14,310	16.02%	871	560	1,431
501	Automotive Mechanics	17,742	21,041	7,710	18.59%	441	330	771
502	Automotive Body Repairers	4,626	5,508	2,230	19.07%	135	88	223
503	Motorcycle Repairers	220	251	90	14.09%	6	3	9
504	Bus, Truck, Diesel Engine Mechanics	5,866	6,576	2,000	12.10%	129	71	200
505	Mobile Heavy Equipment Mechanics	2,621	2,802	860	6.91%	68	18	86
506	Rail Car Repairers	396	386	100	-2.53%	10	-1	10
507	Farm Equipment Mechanics	834	808	220	-3.12%	22	-3	22
508	Aircraft Mechanics	1,689	2,040	690	20.78%	34	35	69
509	Small Engine Specialists	953	1,139	440	19.52%	25	19	44
510	Communications Equipment Mechanics	4,364	5,057	2,050	15.88%	135	70	205
511	Central Office & PBX Installers, Rprs	2,326	3,001	1,440	29.02%	76	68	144
512	Frame Wirers, Central Office	407	388	130	-4.67%	13	-2	13
513	Telegraph & Teletype Installers, Rprs	219	209	70	-4.57%	7	-1	7
514	Signal & Track Switch Maintainers	155	136	40	-12.26%	4	-2	4
515	Radio Mechanics	262	219	70	-16.41%	7	-4	7
516	Communications Equipmt Mechns, NEC	995	1,104	390	10.95%	28	11	39
517	Electric & Electronic Equipment Mechanics	15,945	18,455	6,840	15.74%	433	251	684
518	Telephone & Cable TV Installers, Rprs	4,775	6,274	3,050	31.39%	155	150	305
519	Data Processing Equipment Repairers	1,705	2,408	940	41.23%	24	70	94
520	Elec Home Entertainment Equip Rprs	920	930	270	1.09%	26	1	27
521	Elec Home Appliance & Power Tool Rprs	741	859	340	15.92%	22	12	34
522	Electric Motor, Transformer Repairers	460	401	120	-12.83%	12	-6	12

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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
523	Electronics Rprs, Commrc'l & Indstr'l Eqp	1,648	1,935	750	17.42%	46	29	75
524	Power & Substation, Electricians	301	258	80	-14.29%	8	-4	8
525	Electric Powerline Intallers & Repairers	2,989	3,066	780	2.58%	70	8	78
526	Station Installers & Repairers, Telephone	1,032	647	340	-37.31%	34	-39	34
527	Electrical Installers & Repairers	272	295	90	8.46%	7	2	9
528	Electric & Electronic Equip Mechs, NEC	1,102	1,382	570	25.41%	29	28	57
529	Other Mechanics, Installers & Repairers	25,770	29,817	9,590	15.70%	556	403	959
530	Heat, A/C, Refrig Mechanics	7,286	8,786	2,850	20.59%	135	150	285
531	Precision Instrument Repairers	486	444	120	-8.64%	12	-4	12
532	Electromedical & Biomedical Equip Rprs	299	340	110	13.71%	7	4	11
533	Electric Meter Installers & Repairers	318	293	80	-7.86%	8	-3	8
534	Musical Instrument Repairers/Tuners	147	176	70	19.73%	4	3	7
535	Locksmiths & Safe Repairers	562	626	200	11.39%	14	6	20
536	Office Machine & Cash Register Servicers	1,594	1,814	560	13.80%	34	22	56
537	Mechanical Control Installers & Repairers	419	441	130	5.25%	11	2	13
538	Elevator Installers & Repairers	502	576	200	14.74%	13	7	20
539	Riggers	1,148	1,097	260	-4.44%	26	-5	26
540	Mobile Home Repairers	1,100	1,273	420	15.73%	25	17	42
541	Gas Appliance Repairers	152	163	50	7.24%	4	1	5
542	Coin & Vending Machine Servicers	538	620	200	15.24%	12	8	20
543	Bicycle Repairers	77	103	50	33.77%	2	3	5
544	Tire Repairers & Changers	1,966	2,235	1,130	13.68%	86	27	113
545	Menders, Garments & Linens	224	211	50	-5.80%	5	-1	5
546	Mechanics, Installers, & Repairers, NEC	8,831	10,505	3,210	18.96%	154	167	321
547	Construction Trades & Extractive Occs	97,869	109,013	33,270	11.39%	2,212	1,115	3,327
548	Construction Trades Workers	22,590	24,821	7,920	9.88%	568	224	792
549	Carpenters	19,302	21,211	7,080	9.89%	517	191	708
550	Ceiling Tile Installers & Acoust Carptrs	398	436	150	9.55%	11	4	15
551	Drywall Installers	2,278	2,540	570	11.50%	31	26	57

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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
552	Tapers	373	409	90	9.65%	5	4	9
553	Lathers	219	216	30	-1.37%	3	0	3
554	Electrical Workers	17,129	19,490	5,870	13.78%	351	236	587
555	Masonry Workers	9,423	10,844	3,180	15.08%	175	143	318
556	Brick Masons	4,094	4,881	1,630	19.22%	84	79	163
557	Stone Masons	746	893	300	19.71%	15	15	30
558	Hard Tile Setters	277	277	70	0.00%	7	0	7
559	Concrete Fnshr/Cement Msn/Terrazzo Wkr	3,063	3,321	630	8.42%	37	26	63
560	Reinforcing Metal Workers	264	284	90	7.58%	7	2	9
561	Plasterers & Stucco Masons	979	1,188	460	21.35%	25	21	46
562	Painters, Paperhangers & Related Workers	8,353	9,730	3,510	16.49%	213	138	351
563	Plumbers & Related Workers	12,885	13,754	2,670	6.74%	180	87	267
564	Plumbers, Pipefitters, & Steamfitters	11,216	11,950	2,130	6.54%	140	73	213
565	Pipelaying Fitters	113	117	30	3.54%	3	0	3
566	Pipelayers	1,517	1,643	490	8.31%	36	13	49
567	Floor Related Workers	1,255	1,422	460	13.31%	30	16	46
568	Carpet Installers	449	492	140	9.58%	10	4	14
569	Floor Layers, Ex Carpet	604	705	250	16.72%	15	10	25
570	Floor Sanding Machine Operators	202	225	70	11.39%	5	2	7
571	Road, Rail, Construction & Maintenance	7,040	7,589	2,240	7.80%	170	54	224
572	Air Hammer Operators	143	158	50	10.49%	3	2	5
573	Paving, Surfacing, & Tamping Operators	2,069	2,322	780	12.23%	53	25	78
574	Highway Maintenance Workers	4,217	4,610	1,390	9.32%	100	39	139
575	Rail-Track Laying & Maint Equip Oprs	564	449	130	-20.39%	13	-12	13
576	Other Construction Trades Workerrrs	13,992	15,627	5,590	11.69%	395	164	559
577	Insulation Workers	2,734	2,895	1,040	5.89%	88	16	104
578	Hazardous Materials Removal Wkrs	1,082	1,328	510	22.74%	26	25	51
579	Sheet Metal Duct Installers	1,335	1,757	760	31.61%	34	42	76
580	Roofers	3,086	3,352	1,330	8.62%	106	27	133

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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
581	Glaziers	597	601	150	0.67%	15	0	15
582	Structural Metal Workers	1,415	1,550	510	9.54%	37	14	51
583	Fence Erectors	262	301	100	14.89%	6	4	10
584	Construction Trades Workers, NEC	3,481	3,843	1,190	10.40%	83	36	119
585	Extractive & Related Workers	5,202	5,736	1,830	10.27%	130	53	183
586	Earth Drillers, Ex Oil & Gas	490	510	150	4.08%	13	2	15
587	Blasters & Explosive Workers	137	124	30	-9.49%	3	-1	3
588	Roof Bolters, Mining	411	222	100	-45.99%	10	-19	10
589	Continuous Mining Machine Operators	454	404	110	-11.01%	11	-5	11
590	Mining Machine Operators, NEC	273	185	70	-32.23%	7	-9	7
591	Extraction Workers, Ex Helpers, NEC	290	239	70	-17.59%	7	-5	7
592	Construction & Extractive Workers, NEC	2,935	3,875	1,670	32.03%	73	94	167
593	Precision Production Occupations	43,151	45,984	11,850	6.57%	906	279	1,185
594	Metal Workers, Precision	18,941	20,270	5,480	7.02%	416	132	548
595	Tool & Die Makers	1,415	1,408	260	-0.49%	26	-1	26
596	Machinists	8,429	9,348	2,600	10.90%	168	92	260
597	Tool Grinders, Filers, & Sharpeners	690	692	170	0.29%	17	0	17
598	Layout Workers, Metal, Precision	197	221	70	12.18%	5	2	7
599	Shipfitters	1,572	1,458	380	-7.25%	38	-11	38
600	Jewelers & Silversmiths	416	411	100	-1.20%	10	-1	10
601	Sheet Metal Workers	5,044	5,524	1,710	9.52%	123	48	171
602	Boilermakers	535	524	130	-2.06%	13	-1	13
603	Precision Metal Workers, NEC	413	436	120	5.57%	10	2	12
604	Woodworkers, Precision	6,830	7,036	1,270	3.02%	107	20	127
605	Pattern & Model Makers, Wood	280	269	70	-3.93%	7	-1	7
606	Wood Machinists	1,131	1,135	130	0.35%	13	0	13
607	Cabinetmakers & Bench Carpenters	3,469	3,623	550	4.44%	40	15	55
608	Furniture Finishers	1,105	1,147	310	3.80%	27	4	31
609	Precision Woodworkers, NEC	756	775	200	2.51%	18	2	20

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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
610	Textile, Apparel, Furnish Wkrs, Precision	4,985	4,906	1,010	-1.58%	101	-8	101
611	Patternmakers & Layout Wkrs, Fbrc/Aprl	346	319	70	-7.80%	7	-3	7
612	Custom Tailors & Sewers	598	505	110	-15.55%	11	-9	11
613	Upholsterers	1,952	1,990	440	1.95%	40	4	44
614	Shoe & Leather Workers, Precision	191	186	40	-2.62%	4	-1	4
615	Spotters, Dry Cleaning	462	497	150	7.58%	11	4	15
616	Pressers, Delicate Fabric	694	714	140	2.88%	12	2	14
617	Dyers, Precision	232	207	60	-10.78%	6	-3	6
618	Precision Textile Workers, NEC	510	488	100	-4.31%	10	-2	10
619	Printing Workers, Precision	3,101	3,093	560	-0.26%	56	-2	56
620	Compositors & Typesetters, Precision	194	116	30	-40.21%	3	-8	3
621	Job Printers	442	467	110	5.66%	8	3	11
622	Paste-up Workers	218	106	40	-51.38%	4	-11	4
623	Desktop Publishing Specialists	598	1,060	560	77.26%	10	46	56
624	Camera Operators	209	138	40	-33.97%	4	-7	4
625	Scanner Operators	155	151	30	-2.58%	3	0	3
626	Film Strippers, Printing	542	366	90	-32.47%	9	-18	9
627	Platemakers	346	330	60	-4.62%	6	-2	6
628	Lithographic & Photengrvg Workers, NEC	119	119	20	0.00%	2	0	2
629	Bookbinders	128	112	40	-12.50%	4	-2	4
630	Food Workers, Precision	4,297	4,563	1,240	6.19%	98	26	124
631	Slaughterers & Meat Packers	2,515	2,510	600	-0.20%	60	-1	60
632	Bakers, Manufacturing	908	1,057	260	16.41%	11	15	26
633	Food Batchmakers	736	847	340	15.08%	23	11	34
634	Precision Food & Tobacco Workers, NEC	138	149	50	7.97%	4	1	5
635	Other Precision Workers	4,997	6,116	2,390	22.39%	128	111	239
636	Foundry Mold & Core Makers	161	164	40	1.86%	4	0	4
637	Molders & Shapers, Ex Jewelry/Foundry	229	249	80	8.73%	6	2	8
638	Photographic Process Wkrs, Precision	604	740	380	22.52%	24	14	38

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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
639	Ophthalmic Laboratory Technicians	462	536	130	16.02%	6	7	13
640	Dental Lab Technicians, Precision	864	839	170	-2.89%	17	-3	17
641	Precision Workers, NEC	2,465	3,364	1,560	36.47%	66	90	156
642	Operators, Fabricators, & Laborers	466,488	522,115	165,850	11.92%	11,011	5,574	16,585
643	Machine Setters, Set-Up Opr/Tndrs	113,957	110,843	23,200	-2.73%	2,320	-306	2,320
644	Selected Machn Sttrs, Set-Up Oprs/Tndrs	3,646	3,219	870	-11.71%	87	-44	87
645	Sawing Machine Tool Setters/Oprs, M/P	283	297	70	4.95%	6	1	7
646	Lathe & Turning Machn Setters/Oprs, M/P	760	695	170	-8.55%	17	-7	17
647	Drilling & Boring Machn Setters/Oprs, M/P	544	440	120	-19.12%	12	-10	12
648	Milling Machine Setters/Oprs, M/P	313	316	70	0.96%	7	0	7
649	Grinding Mach Setters/Oprs, M/P	646	580	170	-10.22%	17	-7	17
650	Machine Tool Cutting Oprs, M/P	1,100	891	280	-19.00%	28	-21	28
651	Machine Cut/Form Setters/Oprs, M/P	5,365	5,457	1,340	1.71%	124	10	134
652	Punching Machine Setters/Oprs, M/P	592	541	120	-8.61%	12	-5	12
653	Press Machine Setters/Oprs, M/P	906	962	240	6.18%	18	6	24
654	Shear Machine Setters/Oprs, M/P	311	332	90	6.75%	7	2	9
655	Extruding & Drawing Setters/Oprs, M/P	931	1,031	330	10.74%	23	10	33
656	Rolling Machine Setters/Oprs, M/P	346	365	100	5.49%	8	2	10
657	Forging Machine Setters/Oprs, M/P	179	186	50	3.91%	4	1	5
658	Machine Forming Operators, M/P	2,100	2,040	520	-2.86%	52	-6	52
659	Numerical & Combination Machn Sttrs/Oprs	2,408	2,856	980	18.60%	53	45	98
660	Numerical Control Machn Operators, M/P	1,060	1,295	470	22.17%	23	24	47
661	Combination Machine Tool Setters, M/P	733	857	280	16.92%	16	12	28
662	Combination Machn Tool Oprs/Tndrs, M/P	615	704	230	14.47%	14	9	23
663	Metal Fabricating Machn Setters/Oprs, M/P	2,776	2,984	890	7.49%	67	22	89
664	Welding Machine Setters/Set-Up Oprs	529	557	160	5.29%	13	3	16
665	Welding Machine Operators/Tenders	1,187	1,256	370	5.81%	30	7	37
666	Soldering & Brazing Machine Oprs/Tndrs	152	170	60	11.84%	4	2	6
667	Metal Fabricators, Structural Metal	820	908	270	10.73%	18	9	27

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
Virginia 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
668	Metal & Plastic Process Machine Sttrs/Oprs	5,684	6,430	2,150	13.12%	138	77	215
669	Plastic Molding/Casting Machn Sttrs/Oprs	700	816	290	16.57%	17	12	29
670	Plastic Molding/Casting Machn Oprs/Tndrs	2,477	2,953	1,100	19.22%	62	48	110
671	Metal Mold/Core/Cast Machine Sttrs/Oprs	270	298	100	10.37%	7	3	10
672	Metal Mold/Core/Cast Machine Oprs/Tndrs	615	677	210	10.08%	15	6	21
673	Foundry Mold Assembly & Shakeout Wkrs	260	270	70	3.85%	6	1	7
674	Electrolytic Plate/Coat Machn Sttrs/Oprs, M/P	251	277	90	10.36%	6	3	9
675	Electrolytic Plate/Coat Machn Oprs, M/P	498	543	170	9.04%	12	5	17
676	Heat Treating Machine Oprs/Tndrs	196	187	50	-4.59%	5	-1	5
677	Furnace Operators & Tenders	290	286	50	-1.38%	5	0	5
678	Other Metal & Plastic Setters/Oprs/Tndrs	2,951	3,229	1,010	9.42%	73	28	101
679	Metal & Plastic Setters/Oprs, NEC	1,326	1,406	410	6.03%	33	8	41
680	Metal & Plastic Oprs/Tndrs, NEC	1,625	1,823	600	12.18%	40	20	60
681	Woodworking Machine Setters/Oprs/Tndrs	6,096	5,497	1,630	-9.83%	163	-60	163
682	Sawing Machine Setters/Set-Up Oprs	375	333	110	-11.20%	11	-4	11
683	Head Sawyer	424	410	120	-3.30%	12	-1	12
684	Sawing Machine Operators/Tenders	2,756	2,640	810	-4.21%	81	-12	81
685	Woodworking Machn Setters, Ex Sawing	912	772	210	-15.35%	21	-14	21
686	Woodwrkng Machn Oprs/Tndrs, Ex Sawing	1,629	1,342	380	-17.62%	38	-29	38
687	Printing, Binding, & Related Occs	9,334	9,308	1,890	-0.28%	189	-2	189
688	Print Press Machine Setters	450	486	140	8.00%	10	4	14
689	Offset Lithographic Press Oprs	1,463	1,268	320	-13.33%	32	-20	32
690	Letterpress Operators	238	194	50	-18.49%	5	-4	5
691	Printing Press Setters/Oprs, NEC	297	288	60	-3.03%	6	-1	6
692	Specialty Material Printing Machine Sttrs	275	297	80	8.00%	6	2	8
693	Screen Printing Machine Setters/Oprs	604	576	130	-4.64%	13	-3	13
694	Bindery Machine Setters/Oprs	610	672	160	10.16%	10	6	16
695	Printing Setters/Oprs, NEC	212	208	40	-1.89%	4	0	4
696	Typesetting & Composing Machine Oprs	300	122	50	-59.33%	5	-18	5

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Virginia 1998 - 2008

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		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
697	Printing Press Machine Oprs/Tndrs	2,934	3,139	850	6.99%	64	21	85
698	Photoengraving & Lithographic Oprs/Tndrs	113	89	20	-21.24%	2	-2	2
699	Bindery Machine Operators	1,330	1,486	390	11.73%	23	16	39
700	Printing, Binding, & Related Workers, NEC	508	483	90	-4.92%	9	-3	9
701	Textile & Related Setters/Oprs/Wkrs	34,542	28,580	5,700	-17.26%	570	-595	570
702	Textile Machine Setters/Oprs	1,610	1,310	270	-18.63%	27	-30	27
703	Textile Machine Oprs/Tndrs	9,634	6,974	1,600	-27.61%	160	-266	160
704	Extruding & Forming Machine Oprs/Tndrs	1,369	1,454	320	6.21%	23	9	32
705	Textile Draw-Out Machine Oprs/Tndrs	542	380	90	-29.89%	9	-16	9
706	Textile Bleach & Dye Machine Oprs/Tndrs	1,244	1,060	200	-14.79%	20	-18	20
707	Sewing Machine Oprs, Garment	9,988	6,638	1,370	-33.54%	137	-335	137
708	Sewing Machine Oprs, Non-Garment	3,367	3,456	550	2.64%	46	9	55
709	Laundry & Drycleaning Machine Oprs	4,539	5,230	1,800	15.22%	111	69	180
710	Pressing Machine Oprs/Tndrs, Textiles	2,176	2,027	360	-6.85%	36	-15	36
711	Other Machine Setters/Oprs,Tndrs	41,155	43,283	10,690	5.17%	856	213	1,069
712	Electronic Semiconductor Processors	992	1,458	620	46.98%	15	47	62
713	Motion Picture Projectionists	172	142	40	-17.44%	4	-3	4
714	Photographic Process Machine Oprs	874	821	350	-6.06%	35	-5	35
715	Tire Building Machine Operators	760	739	110	-2.76%	11	-2	11
716	Paper Goods Machine Setters/Oprs	1,520	1,491	320	-1.91%	32	-3	32
717	Cooking Machine Oprs, Food & Tobacco	341	318	50	-6.74%	5	-2	5
718	Roasting & Drying Oprs/Tndrs, Fd/Tbcco	275	240	70	-12.73%	7	-4	7
719	Furnace, Kiln, Oven, Drier or Kettle Oprs	549	491	90	-10.56%	9	-6	9
720	Boiler Operators & Tenders, Low Pressure	564	492	120	-12.77%	12	-7	12
721	Cooling & Freezing Equipment Oprs/Tndrs	143	147	20	2.80%	2	0	2
722	Dairy Processing Equipment Oprs/Setters	116	97	30	-16.38%	3	-2	3
723	Chemical Equipment Controllers/Oprs	1,690	1,897	610	12.25%	40	21	61
724	Chemical Equipment Tenders	257	298	100	15.95%	6	4	10
725	Cutting & Slicing Machine Setters/Oprs	688	681	170	-1.02%	17	-1	17

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		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
726	Cutting & Slicing Machine Oprs/Tndrs	1,687	1,876	600	11.20%	41	19	60
727	Painters, Transportation Equipment	1,198	1,249	310	4.26%	26	5	31
728	Coat/Paint/Spray Machine Setters/Oprs	711	746	200	4.92%	16	4	20
729	Coat/Paint/Spray Machine Oprs/Tndrs	1,377	1,457	380	5.81%	30	8	38
730	Cement & Gluing Machine Oprs/Tndrs	648	544	150	-16.05%	15	-10	15
731	Cleaning/Washing/Pickling Eq Oprs/Tndrs	547	543	130	-0.73%	13	0	13
732	Separating & Still Machn Sttrs/Oprs/Tndrs	522	486	120	-6.90%	12	-4	12
733	Crushing/Grinding/Mixg Machn Oprs/Tndrs	2,802	2,827	690	0.89%	66	3	69
734	Extrud/Form/Press Machine Setters/Oprs	653	646	150	-1.07%	15	-1	15
735	Extrud/Form/Press Machine Oprs/Tndrs	2,103	2,164	560	2.90%	50	6	56
736	Packaging & Filling Machine Oprs/Tndrs	7,250	7,614	2,250	5.02%	189	36	225
737	Machine Setters/Setup Oprs, NEC	2,669	2,888	610	8.21%	39	22	61
738	Machine Operators/Tenders, NEC	10,047	10,931	2,340	8.80%	146	88	234
739	Handworking Occupations, Incl Assemblers	66,875	76,175	23,880	13.91%	1,458	930	2,388
740	Assemblers, Precision	6,933	7,094	1,740	2.32%	158	16	174
741	Machine Builder Assemblers, Precision	1,415	1,433	360	1.27%	34	2	36
742	Fitters, Structural Metal, Precision	273	235	70	-13.92%	7	-4	7
743	Electromechanical Equipment Assmblrs	628	658	170	4.78%	14	3	17
744	Electrical/Electronic Equip Assmblrs, Prec	3,540	3,639	870	2.80%	77	10	87
745	Precision Assemblers, Metral, NEC	954	1,002	280	5.03%	23	5	28
746	Other Hand Workers & Assemblers	59,942	69,081	22,140	15.25%	1,300	914	2,214
747	Machine Assemblers	1,060	1,134	260	6.98%	19	7	26
748	Electrical & Electronic Assemblers	4,387	4,827	1,220	10.03%	78	44	122
749	Coil Winders, Tapers & Finishers	572	587	120	2.62%	10	2	12
750	Glaziers, Manufacturing	137	145	50	5.84%	4	1	5
751	Welders & Cutters	8,575	9,282	2,880	8.24%	217	71	288
752	Solderers & Brazers	982	1,426	670	45.21%	23	44	67
753	Pressers, Hand	190	139	50	-26.84%	5	-5	5
754	Sewers, Hand	201	169	40	-15.92%	4	-3	4

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
Virginia 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
755	Cutters & Trimmers, Hand	868	862	200	-0.69%	20	-1	20
756	Portable Machine Cutters	245	243	60	-0.82%	6	0	6
757	Cannery Workers	443	438	120	-1.13%	12	-1	12
758	Meat, Poultry & Fish Cutters, Hand	5,657	7,006	2,670	23.85%	132	135	267
759	Metal Pourers & Casters, Basic Shape	119	119	30	0.00%	3	0	3
760	Molders & Casters, Hand	317	330	80	4.10%	7	1	8
761	Painting, Coating & Decoratg Wkrs, Hand	436	431	100	-1.15%	10	-1	10
762	Engraving & Printing Wkrs, Hand	420	688	370	63.81%	10	27	37
763	Grinders & Polishers, Hand	1,486	1,552	470	4.44%	40	7	47
764	Assemblers & Fabricators, NEC	23,294	26,049	6,920	11.83%	416	276	692
765	Hand Workers, NEC	10,540	13,640	5,940	29.41%	284	310	594
766	Plant & System Occupations	8,955	9,939	3,440	10.99%	245	99	344
767	Water & Waste Treatment Plant Oprs	3,884	4,539	1,560	16.86%	90	66	156
768	Chemical Plant & System Oprs	756	835	320	10.45%	24	8	32
769	Petroleum Refinery Operators	108	96	30	-11.11%	3	-1	3
770	Power Generating Plant Oprs	500	511	170	2.20%	16	1	17
771	Auxiliary Equipment Oprs, Power	136	136	40	0.00%	4	0	4
772	Power Distributors & Dispatchers	330	289	110	-12.42%	11	-4	11
773	Stationary Engineers	695	649	150	-6.62%	15	-5	15
774	Plant & System Oprs, NEC	2,405	2,754	1,120	14.51%	77	35	112
775	Transportation & Material Mvng Machn Oprs	143,937	168,537	49,860	17.09%	2,522	2,464	4,986
776	Motor Vehicle Operators	99,592	120,042	35,930	20.53%	1,547	2,046	3,593
777	Truck Drivers, Heavy	37,529	43,515	11,380	15.95%	539	599	1,138
778	Truck Drivers, Light	32,484	41,611	13,790	28.10%	466	913	1,379
779	Bus Drivers, Transit/Intercity	3,880	4,735	1,550	22.04%	69	86	155
780	Bus Drivers, School	13,587	16,732	5,580	23.15%	243	315	558
781	Taxi Drivers & Chauffeurs	1,910	2,533	930	32.62%	31	62	93
782	Drivers & Sales Workers	8,660	9,549	2,610	10.27%	172	89	261
783	Motor Vehicle Operators, NEC	1,542	1,367	270	-11.35%	27	-18	27

ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS
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LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
784	Rail Transportation Workers	2,998	2,634	1,040	-12.14%	104	-35	104
785	Railroad Conductors & Yardmasters	914	847	310	-7.33%	31	-7	31
786	Locomotive Engineers	1,193	1,242	460	4.11%	41	5	46
787	Locomotive Firers	151	77	50	-49.01%	5	-7	5
788	Subway & Streetcar Oprs	164	169	70	3.05%	6	1	7
789	Railroad Brake, Signal & Switch Oprs	486	244	170	-49.79%	17	-24	17
790	Water Transportation Occs	3,585	3,584	1,390	-0.03%	138	1	139
791	Captains, Water Vessels	591	678	320	14.72%	23	9	32
792	Mates: Ship, Boat & Barge	394	398	150	1.02%	15	0	15
793	Seamen, Able	1,014	971	390	-4.24%	39	-4	39
794	Seamen, Ordinary & Maine Oilers	704	722	290	2.56%	27	2	29
795	Ship Engineers	777	705	300	-9.27%	30	-7	30
796	Pilot, Flight Engineer Occs	3,371	3,915	1,270	16.14%	73	54	127
797	Other Transportation Workers	7,787	8,980	3,480	15.32%	228	120	348
798	Service Station Attendants	3,448	3,743	1,810	8.56%	151	30	181
799	Parking Lot Attendants	1,120	1,496	580	33.57%	20	38	58
800	Transportation Workers, NEC	3,197	3,724	1,090	16.48%	56	53	109
801	Material Moving Equipment Operators	26,604	29,382	7,100	10.44%	432	278	710
802	Longshore Equipment Operators	299	365	120	22.07%	5	7	12
803	Excavation & Loading Machine Operators	3,799	4,485	1,410	18.06%	72	69	141
804	Loading Machine Operators, Mining	142	96	30	-32.39%	3	-5	3
805	Shuttle Car Operators	280	181	60	-35.36%	6	-10	6
806	Grader, Dozer & Scraper Operators	2,889	3,010	350	4.19%	23	12	35
807	Hoist & Winch Operators	125	127	20	1.60%	2	0	2
808	Crane & Tower Operators	1,134	1,155	280	1.85%	26	2	28
809	Industrial Truck & Tractor Operators	9,365	10,427	2,170	11.34%	111	106	217
810	Conveyor Operators/Tenders	946	912	220	-3.59%	22	-3	22
811	Pump Operators	172	176	40	2.33%	4	0	4
812	Operating Engineers	2,602	2,877	750	10.57%	47	28	75

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Virginia 1998 - 2008

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		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
813	Material Moving Equipment Oprs, NEC	3,016	3,336	1,010	10.61%	69	32	101
814	Transportation & Mtrl Mvng Eqp Oprs, NEC	1,588	2,020	800	27.20%	37	43	80
815	Hand Labor & Material Moving Helpers	132,764	156,621	68,530	17.97%	4,466	2,387	6,853
816	Helpers: Mechanics & Repairers	4,769	5,564	2,960	16.67%	216	80	296
817	Helpers: Construction Trades	22,024	23,844	11,960	8.26%	1,013	183	1,196
818	Helpers: Brick & Stone Masons	3,294	3,639	1,870	10.47%	152	35	187
819	Helpers: Carpenters & Related	5,778	6,459	3,340	11.79%	266	68	334
820	Helpers: Electricians & Related	4,045	3,806	1,860	-5.91%	186	-24	186
821	Helpers: Painters & Paperhangers	894	1,004	520	12.30%	41	11	52
822	Helpers: Plumbers & Related	3,574	3,922	2,000	9.74%	165	35	200
823	Helpers: Roofers	1,151	1,379	760	19.81%	53	23	76
824	Construction Trades Helpers, NEC	3,033	3,374	1,720	11.24%	138	34	172
825	Helpers: Extractive Workers	255	261	130	2.35%	12	1	13
826	Machine Feeders & Offbearers	4,850	4,703	1,460	-3.03%	146	-15	146
827	Freight, Stock & Material Movers, Hand	19,890	21,216	8,670	6.67%	734	133	867
828	Stevedores, Ex Equipment Operators	882	948	410	7.48%	34	7	41
829	Refuse/Recyclable Material Collectors	1,598	1,684	710	5.38%	62	9	71
830	Freight, Stock & Mtrl Mvrs, Hand, NEC	17,410	18,584	7,550	6.74%	638	117	755
831	Other Helpers, Laborers & Movers	81,231	101,294	43,630	24.70%	2,357	2,006	4,363
832	Hand Packers & Packagers	25,728	35,651	16,280	38.57%	636	992	1,628
833	Cleaners of Vechicles/Equipment	5,493	7,100	3,340	29.26%	173	161	334
834	Helpers, Laborers & Movers, NEC	50,010	58,543	24,010	17.06%	1,548	853	2,401

**OCCUPATIONS DELETED DUE TO 1998 AND 2008 EMPLOYMENT LEVELS
OF LESS THAN 100 STATEWIDE
Virginia 1998 - 2008**

OCCUPATION	OCCUPATION	OCCUPATION
Agricultural Engineers	Gas Plant Operators	Petroleum Engineers
Agricultural Sciences Teachers, Pstscndry	Gas Pumping Station Operators	Petroleum Pump System Oprs
Agriculture Related Occupations	Gaugers	Photoengravers
Aircraft Engine Specialists	Geography Teachers, Postsecondary	Pile Driving Equipment Operators
Aircraft Structural Assemblers, Precision	Hand Workers, Jewelry, Precision	Precision Printing Workers, NEC
Animal Breeders	Heaters, Metal & Plastic	Radio Operators
Announcers, NEC	Heating Equipment Setters/Oprs, M/P	Rail Transportation Operators, NEC
Brattice Builders	Inspectors, Agricultural Products	Rail Yard Engineeers, Dinkey Oprs
Bridge, Lock & Lighthouse Tenders	Instrument Makers, Precision	Railroad & Transit Police
Camera & Photographic Equipment Rprs	Judges & Magistrates	Refractory Material Repairers
Captains & Officers, Fish Vessel	Launders & Ironers, Private	Rock Splitters, Quarry
Carpet Cutters, Diagramers, Seamers	Library Science Teachers, Postsecondary	Rotary Drill Operators, Oil/Gas
Choke Setters	Main Line Station Engineers	Roustabouts, Oil/Gas
Claims Takers, Unemployment Benefits	Mathematical Technicians	Septic Tank Servicers, Sewer Pipe Clnrs
Corrective & Manual Arts Therapists	Medical Appliance Makers	Service Unit Operators, Oil/Gas/Mine
Derrick Operators, Oil/Gas	Mine Cutting, Channeling Machine Oprs	Ship Pilots
Detail Design Decorators & Painters	Models	Shoe Sewing Machine Oprs/Tndrs
Dragline Operators	Motorboat Operators	Social Work Teachers, Postsecondary
Dredge Operators & Dipper Tenders	Nonelectrolytic Plate/Coat Oprs, M/P	Soldering & Brazing Machine Setters/Oprs
Elevator Operators	Nonelectrolytic Plate/Coat Setters, M/P	Supervisors, Related Agric Occs
Etchers & Engravers, Precision	Nuclear Techns/Technols	Tank Car & Truck Loaders
Farmers	Nursery & Greenhouse Mgrs	Telegraph/Teletype Operators
Fire Inspectors	Oil Pumpers, Ex Wellhead	Watch & Chlock Assemblers, Prec
Fishers	Parking Enforcement Officers	Watchmakers
Fishing, Hunting, & Trapping Occupations	Pattern & Model Makers, Metal	Wellhead Pumpers
Forest Fire Inspectors & Prevention	Pattern Markers, Wood	
Gas Compressor Operators	Patternmakers & Model Makers	