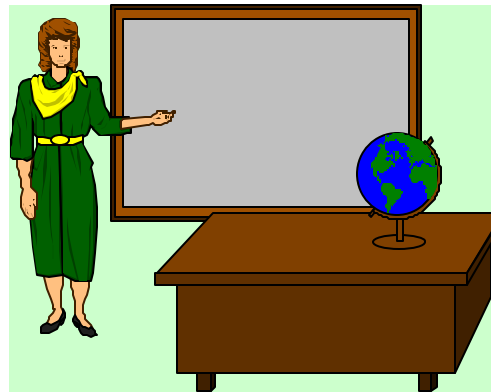


# **Industry and Occupational Employment Projections: 1998 - 2008**

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



Virginia Employment Commission  
Economic Information Services Division  
703 Main Street, Richmond, VA 23219  
Tel: (804) 786-8223 Fax: (804) 371-0412

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)**  


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Scott County  
 Washington County  
 Bristol City

**Charlottesville MSA**  


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Albemarle County  
 Fluvanna County  
 Greene County  
 Charlottesville City

**Danville MSA**  


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Pittsylvania County  
 Danville City

**Lynchburg MSA**  


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Amherst County  
 Bedford County  
 Campbell County  
 Bedford City  
 Lynchburg City

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


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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)**  


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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**  


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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**  


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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

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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

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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**

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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**

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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)

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

(SIC) INDUSTRY	EMPLOYMENT			PERCENT CHANGE	
	Estimated 1998	Projected 2008	Change	Total	Annual
<b>Total All Industries</b>	<b>1,030,123</b>	<b>1,415,165</b>	<b>385,042</b>	<b>37.38%</b>	<b>3.23%</b>
<b>Agriculture, Forestry, &amp; Fishing, Total</b>	<b>14,759</b>	<b>16,598</b>	<b>1,839</b>	<b>12.46%</b>	<b>1.18%</b>
(01) Agricultural Production, Crops	3,001	2,627	-374	-12.46%	-1.32%
(02) Agriculture Production, Livestock	2,880	2,521	-359	-12.47%	-1.32%
(07) Agricultural Services	8,846	11,422	2,576	29.12%	2.59%
(08) Forestry	28	25	-3	-10.71%	-1.13%
(09) Fishing, Hunting, & Trapping	4	3	-1	-25.00%	-2.84%
<b>Mining, Total</b>	<b>781</b>	<b>608</b>	<b>-173</b>	<b>-22.15%</b>	<b>-2.47%</b>
(10) Metal Mining	0	0	0	0.00%	0.00%
(12) Coal Mining	D	D	D	D	D
(13) Oil & Gas Extraction	D	D	D	D	D
(14) Nonmetallic Minerals, Except Fuels	530	468	-62	-11.70%	-1.24%
<b>Construction, Total</b>	<b>58,511</b>	<b>67,307</b>	<b>8,796</b>	<b>15.03%</b>	<b>1.41%</b>
(15) General Building Contractors	13,056	14,815	1,759	13.47%	1.27%
(16) General Contractors, Exc Bldg	7,887	8,695	808	10.24%	0.98%
(17) Special Trade Contractors	37,568	43,797	6,229	16.58%	1.55%
<b>Manufacturing, Total</b>	<b>44,229</b>	<b>44,805</b>	<b>576</b>	<b>1.30%</b>	<b>0.13%</b>
<b>Durable Goods Manufacturing, Total</b>	<b>25,262</b>	<b>25,958</b>	<b>696</b>	<b>2.76%</b>	<b>0.27%</b>
(24) Lumber & Wood Products	2,465	2,499	34	1.38%	0.14%
(25) Furniture & Fixtures	926	979	53	5.72%	0.56%
(32) Stone, Clay, & Glass	1,985	1,947	-38	-1.91%	-0.19%
(33) Primary Metal Industries	578	531	-47	-8.13%	-0.84%
(34) Fabricated Metal Products	1,691	1,811	120	7.10%	0.69%
(35) Industrial Machinery & Equipment	2,384	2,433	49	2.06%	0.20%

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)

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

(SIC) INDUSTRY	EMPLOYMENT			PERCENT CHANGE	
	Estimated 1998	Projected 2008	Change	Total	Annual
(36) Electronic & Other Electric Equipment	8,404	9,138	734	8.73%	0.84%
(37) Transportation Equipment	2,534	2,598	64	2.53%	0.25%
(38) Instruments & Related Products	3,935	3,653	-282	-7.17%	-0.74%
(39) Misc Manufacturing Industries	360	369	9	2.50%	0.25%
<b>Nondurable Goods Manufacturing, Total</b>	<b>18,967</b>	<b>18,847</b>	<b>-120</b>	<b>-0.63%</b>	<b>-0.06%</b>
(20) Food & Kindred Products	2,047	1,984	-63	-3.08%	-0.31%
(21) Tobacco Products	0	0	0	0.00%	0.00%
(22) Textile Mill Products	69	55	-14	-20.29%	-2.24%
(23) Apparel & Other Textile Products	443	373	-70	-15.80%	-1.71%
(26) Paper & Allied Products	807	801	-6	-0.74%	-0.07%
(27) Printing & Publishing	13,543	13,431	-112	-0.83%	-0.08%
(28) Chemicals & Allied Products	638	597	-41	-6.43%	-0.66%
(29) Petroleum & Coal Products	D	D	D	D	D
(30) Rubber & Misc Plastics Products	1,261	1,471	210	16.65%	1.55%
(31) Leather & Leather Products	D	D	D	D	D
<b>Transportation &amp; Public Utilities, Total</b>	<b>72,558</b>	<b>88,089</b>	<b>15,531</b>	<b>21.40%</b>	<b>1.96%</b>
<b>Transportation, Total</b>	<b>44,393</b>	<b>54,441</b>	<b>10,048</b>	<b>22.63%</b>	<b>2.06%</b>
(40) Railroad Transportation	923	740	-183	-19.83%	-2.19%
(41) Local & Interurban Passenger Transit	2,714	3,618	904	33.31%	2.92%
(42) Trucking & Warehousing	8,620	9,562	942	10.93%	1.04%
(43) U.S. Postal Service	8,816	9,102	286	3.24%	0.32%
(44) Water Transportation	D	D	D	D	D
(45) Transportation by Air	18,654	24,661	6,007	32.20%	2.83%
(46) Pipelines, Except Natural Gas	D	D	D	D	D

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

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

(SIC) INDUSTRY	EMPLOYMENT			PERCENT CHANGE	
	Estimated 1998	Projected 2008	Change	Total	Annual
(47) Transportation Services	4,515	6,604	2,089	46.27%	3.88%
Communications & Utilities, Total	28,165	33,648	5,483	19.47%	1.79%
(48) Communications	23,537	29,119	5,582	23.72%	2.15%
(49) Electric, Gas, & Sanitary Services	4,628	4,529	-99	-2.14%	-0.22%
Wholesale & Retail Trade, Total	217,279	265,919	48,640	22.39%	2.04%
Wholesale Trade, Total	40,513	43,463	2,950	7.28%	0.71%
(50) Wholesale Trade, Durable Goods	28,762	31,012	2,250	7.82%	0.76%
(51) Wholesale Trade, Nondurable Goods	11,751	12,451	700	5.96%	0.58%
Retail Trade, Total	176,766	222,456	45,690	25.85%	2.33%
(52) Bldg. Materials & Garden Supplies	7,239	8,985	1,746	24.12%	2.18%
(53) General Merchandise Stores	22,073	27,162	5,089	23.06%	2.10%
(54) Food Stores	24,185	28,042	3,857	15.95%	1.49%
(55) Auto Dealers & Service Stations	18,918	22,746	3,828	20.23%	1.86%
(56) Apparel & Accessory Stores	10,970	11,438	468	4.27%	0.42%
(57) Furniture & Homefurnishings Stores	10,692	14,053	3,361	31.43%	2.77%
(58) Eating & Drinking Places	60,849	81,710	20,861	34.28%	2.99%
(59) Miscellaneous Retail	21,840	28,320	6,480	29.67%	2.63%
Finance, Insurance, & Real Estate, Total	57,878	72,641	14,763	25.51%	2.30%
(60) Depository Institutions	13,357	15,036	1,679	12.57%	1.19%
(61) Nondepository Institutions	11,851	18,040	6,189	52.22%	4.29%
(62) Security & Commodity Brokers	2,488	3,695	1,207	48.51%	4.03%
(63) Insurance Carriers	8,632	11,558	2,926	33.90%	2.96%
(64) Insurance Agents, Brokers, & Service	3,666	4,053	387	10.56%	1.01%
(65) Real Estate	16,592	18,749	2,157	13.00%	1.23%

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

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

(SIC) INDUSTRY	EMPLOYMENT			PERCENT CHANGE	
	Estimated 1998	Projected 2008	Change	Total	Annual
(67) Holding & Other Investment Offices	1,292	1,510	218	16.87%	1.57%
Services, Total	455,738	747,730	291,992	64.07%	5.08%
(70) Hotels & Other Lodging Places	15,228	17,945	2,717	17.84%	1.66%
(72) Personal Services	11,980	13,266	1,286	10.73%	1.02%
(73) Business Services	143,619	276,714	133,095	92.67%	6.78%
(75) Auto Repair, Services & Parking	9,727	13,665	3,938	40.49%	3.46%
(76) Misc Repair Services	2,508	2,655	147	5.86%	0.57%
(78) Motion Pictures	3,854	5,266	1,412	36.64%	3.17%
(79) Amusement & Recreation Services	11,734	20,324	8,590	73.21%	5.65%
(80) Health Services (Inc Govt Hosp)	55,413	82,240	26,827	48.41%	4.03%
(81) Legal Services	7,320	9,832	2,512	34.32%	2.99%
(82) Educational Services (Inc Govt Educ)	68,662	98,419	29,757	43.34%	3.67%
(83) Social Services	17,755	35,502	17,747	99.95%	7.17%
(84) Museums, Botanical, Zoological Gardens	613	870	257	41.93%	3.56%
(86) Membership Organizations	18,269	26,897	8,628	47.23%	3.94%
(87) Engineering & Management Services	83,045	136,725	53,680	64.64%	5.11%
(88) Private Households	5,312	6,491	1,179	22.20%	2.02%
(89) Services, NEC	699	919	220	31.47%	2.77%
Federal Government (Exc Post Office)	65,473	59,552	-5,921	-9.04%	-0.94%
State Government (Exc Educ & Hosp)	5,807	6,727	920	15.84%	1.48%
Local Government (Exc Educ & Hosp)	37,110	45,189	8,079	21.77%	1.99%

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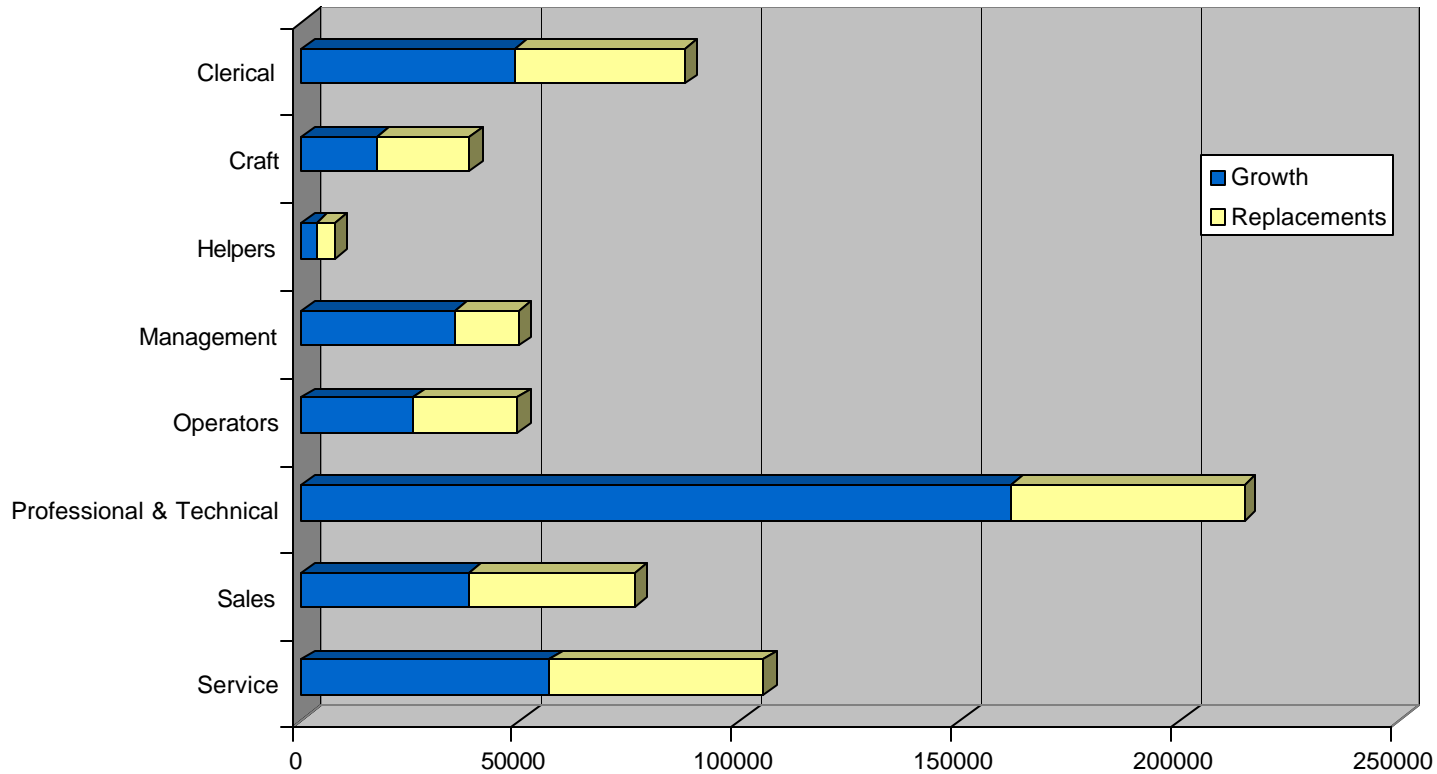
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# Total Job Openings 1998 - 2008

By Major Occupational Group

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



## EMPLOYMENT AND TOTAL JOB OPENINGS BY MAJOR OCCUPATIONAL GROUP

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

MAJOR OCCUPATIONAL GROUP	TOTAL OCCUPATIONAL EMPLOYMENT			TOTAL JOB OPENINGS 1998-2008		
	Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
<b>Total, All Occupations</b>	<b>1,030,099</b>	<b>1,415,152</b>	<b>37.38%</b>	<b>242,590</b>	<b>385,053</b>	<b>627,820</b>
<b>Executive, Administrative &amp; Managerial Occs</b>	<b>83,865</b>	<b>118,624</b>	<b>41.45%</b>	<b>14,750</b>	<b>34,759</b>	<b>49,510</b>
<b>Professional Specialty Occs</b>	<b>276,413</b>	<b>437,987</b>	<b>58.45%</b>	<b>53,070</b>	<b>161,574</b>	<b>214,730</b>
<b>Marketing &amp; Sales Occupations</b>	<b>125,761</b>	<b>163,795</b>	<b>30.24%</b>	<b>37,780</b>	<b>38,034</b>	<b>75,830</b>
<b>Administrative Support Occs, Clerical</b>	<b>188,065</b>	<b>236,577</b>	<b>25.80%</b>	<b>38,770</b>	<b>48,512</b>	<b>87,310</b>
<b>Service Occupations</b>	<b>153,599</b>	<b>210,131</b>	<b>36.80%</b>	<b>48,730</b>	<b>56,532</b>	<b>105,270</b>
<b>Agriculture, Forestry, &amp; Fishing Occupations</b>	<b>16,752</b>	<b>19,867</b>	<b>18.59%</b>	<b>4,570</b>	<b>3,115</b>	<b>7,680</b>
<b>Precision Production, Craft &amp; Repair Occs</b>	<b>87,894</b>	<b>105,203</b>	<b>19.69%</b>	<b>20,920</b>	<b>17,309</b>	<b>38,250</b>
<b>Operators, Fabricators, &amp; Laborers</b>	<b>97,750</b>	<b>122,968</b>	<b>25.80%</b>	<b>24,000</b>	<b>25,218</b>	<b>49,240</b>

**SPECIFIC OCCUPATIONS WITH THE LARGEST PERCENT INCREASE IN EMPLOYMENT (TOTAL GROWTH > 99)**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
1	Computer Support Specialists	8,586	23,317	171.57%	530	14,731	15,260
2	Database Administrators	1,809	4,867	169.04%	290	3,058	3,350
3	Computer Engineers	9,992	26,288	163.09%	620	16,296	16,920
4	Systems Analysts	15,034	35,373	135.29%	930	20,339	21,270
5	Computer Science Teachers, Pstscndry	110	247	124.55%	30	137	170
6	Home Health Aides	3,061	6,576	114.83%	430	3,515	3,950
7	Personal & Home Care Aides	884	1,898	114.71%	230	1,014	1,240
8	Instructors, Adult (Non-VocEd)	793	1,695	113.75%	80	902	980
9	Health Diagnostics Teachers, Pstscndry	270	549	103.33%	70	279	350
10	Residential Counselors	892	1,797	101.46%	200	905	1,110
11	Occupational Therapy Assistants	136	269	97.79%	30	133	160
12	Art, Drama & Music Teachers, Pstscndry	163	318	95.09%	50	155	210
13	Physical, Corrective Therapy Assistants	430	812	88.84%	110	382	490
14	Business Teachers, Postsecondary	246	459	86.59%	70	213	280
15	Medical Assistants	1,594	2,924	83.44%	390	1,330	1,720
16	Physician Assistants	383	700	82.77%	60	317	380
17	Desktop Publishing Specialist s	201	360	79.10%	30	159	190
18	Speech Pathologists, Audiologists	576	1,031	78.99%	90	455	550
19	Child Care Workers	3,173	5,645	77.91%	310	2,472	2,780
20	Physical Therapists	626	1,113	77.80%	90	487	580
21	Teachers & Instructors, VocED	2,007	3,544	76.58%	210	1,537	1,750
22	Musicians, Instrumental	336	587	74.70%	60	251	310
23	Directors, Religious Activities/Education	157	274	74.52%	20	117	140
24	Technical Writers	1,352	2,359	74.48%	350	1,007	1,360
25	English Lang/Lit Teachers, Pstscndry	177	308	74.01%	50	131	180

**SPECIFIC OCCUPATIONS WITH THE LARGEST PERCENT INCREASE IN EMPLOYMENT (TOTAL GROWTH > 99)**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
26	Solderers & Brazers	279	485	73.84%	60	206	270
27	Engineering/Math/Computer/Ntrl Sci Mgrs	5,575	9,605	72.29%	980	4,030	5,010
28	Instructional Coordinators	1,305	2,248	72.26%	140	943	1,080
29	Graduate Assistants, Teaching	220	378	71.82%	60	158	220
30	Teachers, Preschool, Educ Srvcs	3,117	5,349	71.61%	660	2,232	2,890
31	Telemarketers, Door-To-Door Sales	4,738	8,063	70.18%	1,220	3,325	4,550
32	Occupational Therapists	377	640	69.76%	60	263	320
33	Amusement & Recreation Attendants	1,645	2,778	68.88%	300	1,133	1,430
34	Music Directors, Singers & Related Wkrs	176	296	68.18%	30	120	150
35	Correctional Officers	1,855	3,084	66.25%	510	1,229	1,740
36	Hand Packers & Packagers	5,304	8,813	66.16%	1,310	3,509	4,820
37	Financial Analysts, Statistical	393	651	65.65%	60	258	320
38	Social/Human Service Assistants	1,671	2,760	65.17%	440	1,089	1,530
39	Computer Programmers	17,414	28,720	64.92%	5,400	11,306	16,710
40	Ushers, Lobby Attendants, & Ticket Tkrs	685	1,129	64.82%	130	444	570
41	Nursing Aides & Orderlies	6,179	10,100	63.46%	860	3,921	4,780
42	Producers, Directors, Actors	641	1,043	62.71%	140	402	540
43	Dental Assistants	2,022	3,281	62.27%	310	1,259	1,570
44	Geologists, Geophysicists, Oceanogrphrs	707	1,145	61.95%	180	438	620
45	Sales Agents, Business	4,518	7,310	61.80%	930	2,792	3,720
46	Dental Hygienists	1,112	1,792	61.15%	250	680	930
47	Teacher Aides & Educational Assts	2,890	4,649	60.87%	330	1,759	2,090
48	Paralegals & Legal Assistants	1,377	2,209	60.42%	120	832	950
49	Medical Records & Health Info Techns	379	607	60.16%	90	228	320
50	Social Workers, Ex Med, Psych	2,410	3,845	59.54%	310	1,435	1,750

**SPECIFIC OCCUPATIONS WITH THE LARGEST PERCENT DECREASE IN EMPLOYMENT (TOTAL GROWTH < -24)**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
1	Typesetting & Composing Machine Oprs	97	40	-58.76%	20	-57	20
2	Railroad Brake, Signal & Switch Oprs	55	26	-52.73%	20	-29	20
3	Paste-up Workers	80	39	-51.25%	10	-41	10
4	Compositors & Typesetters, Precision	66	39	-40.91%	10	-27	10
5	Directory Assistance Operators	459	291	-36.60%	100	-168	100
6	Station Installers & Repairers, Telephone	547	352	-35.65%	180	-195	180
7	Film Strippers, Printing	168	112	-33.33%	30	-56	30
8	Peripheral EDP Equipment Operators	365	258	-29.32%	50	-107	50
9	Shipfitters	141	111	-21.28%	30	-30	30
10	Transportation Attendants	327	261	-20.18%	70	-66	70
11	Ship Engineers	268	214	-20.15%	100	-54	100
12	Housekeepers & Butlers, Private	161	133	-17.39%	40	-28	40
13	Computer Operators, Ex Peripheral	3,582	2,996	-16.36%	510	-586	510
14	Procurement Clerks	515	438	-14.95%	80	-77	80
15	Traffic Technicians	250	215	-14.00%	70	-35	70
16	Seamen, Able	356	310	-12.92%	140	-46	140
17	Custom Tailors & Sewers	202	177	-12.38%	40	-25	40
18	Offset Lithographic Press Oprs	454	401	-11.67%	100	-53	100
19	Seamen, Ordinary & Maine Oilers	219	194	-11.42%	80	-25	80
20	Farm Equipment Operators	1,396	1,238	-11.32%	430	-158	430
21	Law Clerks	829	762	-8.08%	90	-67	90
22	Sewing Machine Oprs, Garment	403	373	-7.44%	60	-30	60
23	Butchers & Meatcutters, Retail	723	691	-4.43%	170	-32	170
24	Welfare Eligibility Workers	1,037	1,004	-3.18%	220	-33	220
25	Helpers: Electricians & Related	1,425	1,399	-1.82%	660	-26	660

**SPECIFIC OCCUPATIONS WITH THE LARGEST NUMBER OF TOTAL OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
1	Salespersons, Retail	36,859	45,800	24.26%	12,490	8,941	21,430
2	Systems Analysts	15,034	35,373	135.29%	930	20,339	21,270
3	Cashiers	26,016	34,042	30.85%	11,340	8,026	19,370
4	General Managers & Top Executives	32,634	45,441	39.24%	5,720	12,807	18,530
5	Computer Engineers	9,992	26,288	163.09%	620	16,296	16,920
6	Computer Programmers	17,414	28,720	64.92%	5,400	11,306	16,710
7	Computer Support Specialists	8,586	23,317	171.57%	530	14,731	15,260
8	General Office Clerks	24,682	32,959	33.53%	6,830	8,277	15,110
9	Waiters & Waitresses	15,403	20,132	30.70%	8,480	4,729	13,210
10	Janitors & Cleaners	18,915	24,300	28.47%	4,110	5,385	9,500
11	Combined Food Prep & Serv Workers	11,317	14,285	26.23%	6,230	2,968	9,200
12	Receptionists & Information Clerks	12,745	19,040	49.39%	2,440	6,295	8,740
13	Teachers, Secondary School	9,918	14,186	43.03%	3,170	4,268	7,440
14	Secretaries, Except Legal or Medical	22,857	26,567	16.23%	3,730	3,710	7,440
15	Food Preparation Workers	7,964	10,013	25.73%	4,390	2,049	6,440
16	Guards	8,216	12,248	49.07%	2,050	4,032	6,080
17	Registered Nurses	10,450	14,766	41.30%	1,720	4,316	6,040
18	Teachers, Elementary	10,936	14,241	30.22%	2,530	3,305	5,840
19	Truck Drivers, Light	10,357	14,107	36.21%	1,490	3,750	5,240
20	Accountants & Auditors	8,799	12,571	42.87%	1,360	3,772	5,130
21	Laborers, Landscapers, & Groundskprs	8,148	10,816	32.74%	2,430	2,668	5,100
22	Engineering/Math/Computer/Ntrl Sci Mgrs	5,575	9,605	72.29%	980	4,030	5,010
23	Hand Packers & Packagers	5,304	8,813	66.16%	1,310	3,509	4,820
24	Nursing Aides & Orderlies	6,179	10,100	63.46%	860	3,921	4,780
25	Bookkeeping, Accounting, Audit Clerks	14,250	16,349	14.73%	2,660	2,099	4,760

**SPECIFIC OCCUPATIONS WITH THE LARGEST NUMBER OF TOTAL OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
26	Telemarketers, Door-To-Door Sales	4,738	8,063	70.18%	1,220	3,325	4,550
27	Marketing, Advertising, Public Rltns Mgrs	5,555	8,842	59.17%	770	3,287	4,060
28	Maids & Housekeeping Cleaners	8,563	10,986	28.30%	1,590	2,423	4,010
29	Home Health Aides	3,061	6,576	114.83%	430	3,515	3,950
30	Cooks, Fast Food	6,308	8,483	34.48%	1,650	2,175	3,830
31	Maintenance Repairers, General Utility	8,755	10,584	20.89%	1,960	1,829	3,790
32	Electrical & Electronics Engineers	5,376	8,007	48.94%	1,150	2,631	3,780
33	Sales Agents, Business	4,518	7,310	61.80%	930	2,792	3,720
34	Cooks, Restaurant	5,963	7,999	34.14%	1,560	2,036	3,600
35	Database Administrators	1,809	4,867	169.04%	290	3,058	3,350
36	Financial Managers	6,229	8,465	35.90%	990	2,236	3,230
37	Management Analysts	5,918	8,575	44.90%	470	2,657	3,130
38	Counter & Rental Clerks	4,174	5,471	31.07%	1,810	1,297	3,110
39	Administrative Services Mgrs	3,936	6,259	59.02%	690	2,323	3,010
40	Truck Drivers, Heavy	8,663	10,396	20.00%	1,240	1,733	2,970
41	Licensed Practical/Vocational Nurses	4,299	6,335	47.36%	920	2,036	2,960
42	Sales Representative s, Mfg & Wholesale	6,760	8,074	19.44%	1,650	1,314	2,960
43	Teachers, Preschool, Educ Srvcs	3,117	5,349	71.61%	660	2,232	2,890
44	Sales Representatives, Science	4,510	6,239	38.34%	1,100	1,729	2,830
45	Child Care Workers	3,173	5,645	77.91%	310	2,472	2,780
46	Adjustment Clerks	4,281	6,678	55.99%	280	2,397	2,680
47	Data Entry Keyers, Ex Composing	5,156	7,419	43.89%	390	2,263	2,650
48	Teacher Aides, Paraprofessional	3,804	5,975	57.07%	440	2,171	2,610
49	Human Res, Training, Labor Rltns Specs	4,320	5,695	31.83%	1,150	1,375	2,530
50	Automotive Mechanics	5,275	6,487	22.98%	1,310	1,212	2,520

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

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
1	Systems Analysts	15,034	35,373	135.29%	930	20,339	21,270
2	Computer Engineers	9,992	26,288	163.09%	620	16,296	16,920
3	Computer Support Specialists	8,586	23,317	171.57%	530	14,731	15,260
4	General Managers & Top Executives	32,634	45,441	39.24%	5,720	12,807	18,530
5	Computer Programmers	17,414	28,720	64.92%	5,400	11,306	16,710
6	Salespersons, Retail	36,859	45,800	24.26%	12,490	8,941	21,430
7	General Office Clerks	24,682	32,959	33.53%	6,830	8,277	15,110
8	Cashiers	26,016	34,042	30.85%	11,340	8,026	19,370
9	Receptionists & Information Clerks	12,745	19,040	49.39%	2,440	6,295	8,740
10	Janitors & Cleaners	18,915	24,300	28.47%	4,110	5,385	9,500
11	Waiters & Waitresse s	15,403	20,132	30.70%	8,480	4,729	13,210
12	Registered Nurses	10,450	14,766	41.30%	1,720	4,316	6,040
13	Teachers, Secondary School	9,918	14,186	43.03%	3,170	4,268	7,440
14	Guards	8,216	12,248	49.07%	2,050	4,032	6,080
15	Engineering/Math/Computer/Ntrl Sci Mgrs	5,575	9,605	72.29%	980	4,030	5,010
16	Nursing Aides & Orderlies	6,179	10,100	63.46%	860	3,921	4,780
17	Accountants & Auditors	8,799	12,571	42.87%	1,360	3,772	5,130
18	Truck Drivers, Light	10,357	14,107	36.21%	1,490	3,750	5,240
19	Secretaries, Except Legal or Medical	22,857	26,567	16.23%	3,730	3,710	7,440
20	Home Health Aides	3,061	6,576	114.83%	430	3,515	3,950
21	Hand Packers & Packagers	5,304	8,813	66.16%	1,310	3,509	4,820
22	Telemarketers, Door-To-Door Sales	4,738	8,063	70.18%	1,220	3,325	4,550
23	Teachers, Elementary	10,936	14,241	30.22%	2,530	3,305	5,840
24	Marketing, Advertising, Public Rltns Mgrs	5,555	8,842	59.17%	770	3,287	4,060
25	Database Administrators	1,809	4,867	169.04%	290	3,058	3,350

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

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
26	Combined Food Prep & Serv Workers	11,317	14,285	26.23%	6,230	2,968	9,200
27	Sales Agents, Business	4,518	7,310	61.80%	930	2,792	3,720
28	Laborers, Landscapers, & Groundskpr	8,148	10,816	32.74%	2,430	2,668	5,100
29	Management Analysts	5,918	8,575	44.90%	470	2,657	3,130
30	Electrical & Electronics Engineers	5,376	8,007	48.94%	1,150	2,631	3,780
31	Child Care Workers	3,173	5,645	77.91%	310	2,472	2,780
32	Maids & Housekeeping Cleaners	8,563	10,986	28.30%	1,590	2,423	4,010
33	Adjustment Clerks	4,281	6,678	55.99%	280	2,397	2,680
34	Administrative Services Mgrs	3,936	6,259	59.02%	690	2,323	3,010
35	Data Entry Keyers, Ex Composing	5,156	7,419	43.89%	390	2,263	2,650
36	Financial Managers	6,229	8,465	35.90%	990	2,236	3,230
37	Teachers, Preschool, Educ Srvcs	3,117	5,349	71.61%	660	2,232	2,890
38	Cooks, Fast Food	6,308	8,483	34.48%	1,650	2,175	3,830
39	Teacher Aides, Paraprofessional	3,804	5,975	57.07%	440	2,171	2,610
40	Bookkeeping, Accounting, Audit Clerks	14,250	16,349	14.73%	2,660	2,099	4,760
41	Food Preparation Workers	7,964	10,013	25.73%	4,390	2,049	6,440
42	Licensed Practical/Vocational Nurses	4,299	6,335	47.36%	920	2,036	2,960
43	Cooks, Restaurant	5,963	7,999	34.14%	1,560	2,036	3,600
44	Maintenance Repairers, General Utility	8,755	10,584	20.89%	1,960	1,829	3,790
45	Teacher Aides & Educational Assts	2,890	4,649	60.87%	330	1,759	2,090
46	Truck Drivers, Heavy	8,663	10,396	20.00%	1,240	1,733	2,970
47	Sales Representatives, Science	4,510	6,239	38.34%	1,100	1,729	2,830
48	Physicians	3,307	4,996	51.07%	520	1,689	2,210
49	Electrical & Electronic Techns/Technols	4,278	5,871	37.24%	870	1,593	2,460
50	Teachers & Instructors, VocED	2,007	3,544	76.58%	210	1,537	1,750

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

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
1	Salespersons, Retail	36,859	45,800	24.26%	12,490	8,941	21,430
2	Cashiers	26,016	34,042	30.85%	11,340	8,026	19,370
3	Waiters & Waitresses	15,403	20,132	30.70%	8,480	4,729	13,210
4	General Office Clerks	24,682	32,959	33.53%	6,830	8,277	15,110
5	Combined Food Prep & Serv Workers	11,317	14,285	26.23%	6,230	2,968	9,200
6	General Managers & Top Executives	32,634	45,441	39.24%	5,720	12,807	18,530
7	Computer Programmers	17,414	28,720	64.92%	5,400	11,306	16,710
8	Food Preparation Workers	7,964	10,013	25.73%	4,390	2,049	6,440
9	Janitors & Cleaners	18,915	24,300	28.47%	4,110	5,385	9,500
10	Secretaries, Except Legal or Medical	22,857	26,567	16.23%	3,730	3,710	7,440
11	Teachers, Secondary School	9,918	14,186	43.03%	3,170	4,268	7,440
12	Bookkeeping, Accounting, Audit Clerks	14,250	16,349	14.73%	2,660	2,099	4,760
13	Teachers, Elementary	10,936	14,241	30.22%	2,530	3,305	5,840
14	Receptionists & Information Clerks	12,745	19,040	49.39%	2,440	6,295	8,740
15	Laborers, Landscapers, & Groundskprs	8,148	10,816	32.74%	2,430	2,668	5,100
16	Guards	8,216	12,248	49.07%	2,050	4,032	6,080
17	Maintenance Repairers, General Utility	8,755	10,584	20.89%	1,960	1,829	3,790
18	Counter & Rental Clerks	4,174	5,471	31.07%	1,810	1,297	3,110
19	Bank Tellers	4,208	4,403	4.63%	1,810	195	2,010
20	Registered Nurses	10,450	14,766	41.30%	1,720	4,316	6,040
21	Sales Representatives, Mfg & Wholesale	6,760	8,074	19.44%	1,650	1,314	2,960
22	Cooks, Fast Food	6,308	8,483	34.48%	1,650	2,175	3,830
23	Maids & Housekeeping Cleaners	8,563	10,986	28.30%	1,590	2,423	4,010
24	Cooks, Restaurant	5,963	7,999	34.14%	1,560	2,036	3,600
25	Carpenters	5,729	6,688	16.74%	1,530	959	2,490

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

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

RANK	OCCUPATIONAL TITLE	EMPLOYMENT			OPENINGS		
		Estimated 1998	Projected 2008	% Change	Replacements	Growth	Total
26	Truck Drivers, Light	10,357	14,107	36.21%	1,490	3,750	5,240
27	Accountants & Auditors	8,799	12,571	42.87%	1,360	3,772	5,130
28	Counter Attendants, Lunchroom	1,590	2,058	29.43%	1,320	468	1,790
29	Automotive Mechanics	5,275	6,487	22.98%	1,310	1,212	2,520
30	Hand Packers & Packagers	5,304	8,813	66.16%	1,310	3,509	4,820
31	Truck Drivers, Heavy	8,663	10,396	20.00%	1,240	1,733	2,970
32	Telemarketers, Door-To-Door Sales	4,738	8,063	70.18%	1,220	3,325	4,550
33	Hairdressers & Hairstylists	4,609	5,139	11.50%	1,190	530	1,720
34	Human Res, Training, Labor Rltns Specs	4,320	5,695	31.83%	1,150	1,375	2,530
35	Electrical & Electronics Engineers	5,376	8,007	48.94%	1,150	2,631	3,780
36	Sales Representatives, Science	4,510	6,239	38.34%	1,100	1,729	2,830
37	Stock Clerks, Sales Floor	7,318	8,044	9.92%	1,100	726	1,830
38	First Line Supervisors: Mechanics & Rprs	3,640	4,290	17.86%	1,080	650	1,730
39	Financial Managers	6,229	8,465	35.90%	990	2,236	3,230
40	Engineering/Math/Computer/Ntrl Sci Mgrs	5,575	9,605	72.29%	980	4,030	5,010
41	First Line Supervisors: Constrctn, Extrctn	3,631	4,375	20.49%	970	744	1,710
42	Systems Analysts	15,034	35,373	135.29%	930	20,339	21,270
43	Sales Agents, Business	4,518	7,310	61.80%	930	2,792	3,720
44	Licensed Practical/Vocational Nurses	4,299	6,335	47.36%	920	2,036	2,960
45	Traffic, Shipping & Receiving Clerks	5,435	6,124	12.68%	900	689	1,590
46	Dining Room & Cafeteria Helpers	2,886	3,568	23.63%	880	682	1,560
47	Electrical & Electronic Techns/Technols	4,278	5,871	37.24%	870	1,593	2,460
48	Nursing Aides & Orderlies	6,179	10,100	63.46%	860	3,921	4,780
49	Postal Mail Carriers	2,989	3,239	8.36%	840	250	1,090
50	Purchasing Agts, Ex Who/Ret/Farm	3,187	3,809	19.52%	820	622	1,440

## ALPHABETICAL INDEX OF OCCUPATIONS

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

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE	LINE	OCCUPATIONAL TITLE
32	Accountants & Auditors	289	Bank Tellers	96	Chemical Techns/Technols, Ex Health
27	Accountants, Auditors, Financial Specialists	288	Bank, Security, Finance, Credit Workers	147	Chemistry Teachers, Postsecondary
112	Actuaries	434	Barbers	84	Chemists
133	Adjudicators, Hearing Officers	403	Bartenders	446	Child Care Workers
296	Adjustment Clerks	543	Bicycle Repairers	386	Child Care Workers, Private
8	Administrative Services Mgrs	308	Bill & Account Collectors	200	Chiropractors
3	Administrative Specialty Mgrs	342	Billing, Cost & Rate Clerks	73	Civil Engineering Techns/Technols
285	Administrative Support Occs, Clerical	345	Billing, Posting & Calculating Machn Oprs	59	Civil Engineers, Incl Traffic
286	Administrative Support Supervisors	699	Bindery Machine Operators	50	Claims Examiners, Insurance
320	Advertising Clerks	694	Bindery Machine Setters/Oprs	387	Cleaners & Servants, Private
54	Aerospace Engineers	91	Biological Scientists	833	Cleaners of Vehicles/Equipment
90	Agricultural & Food Scientists	95	Biological, Agriculture & Food Techns	428	Cleaning & Building Service Occupations
449	Agriculture, Forestry, & Fishing Occupations	720	Boiler Operators & Tenders, Low Pressure	432	Cleaning/Bldg Serv Wrks, NEC
474	Agriculture, Forestry, Fishing Wkrs, NEC	602	Boilermakers	731	Cleaning/Washing/Pickling Eqp Oprs/Tndrs
572	Air Hammer Operators	629	Bookbinders	128	Clergy
256	Air Traffic Controllers	340	Bookkeeping, Accounting, Audit Clerks	376	Clerical Occupations, NEC
508	Aircraft Mechanics	556	Brick Masons	729	Coat/Paint/Spray Machine Oprs/Tndrs
425	Ambulance Drivers & Attendants, Ex EMT	244	Broadcast & Sound Technicians	728	Coat/Paint/Spray Machine Setters/Oprs
438	Amusement & Recreation Attendants	240	Broadcast News Analysts	749	Coil Winders, Tapers & Finishers
466	Animal Caretakers, Ex Farm	298	Brokerage Clerks	542	Coin & Vending Machine Servicers
465	Animal Trainers	265	Brokers, Real Estate	142	College & University Faculty
241	Announcers, Radio & TV	33	Budget Analysts	661	Combination Machine Tool Setters, M/P
160	Anthropology/Sociology Tchrs, Pstscndry	780	Bus Drivers, School	662	Combination Machn Tool Oprs/Tndrs, M/P
67	Architects & Surveyors	779	Bus Drivers, Transit/Intercity	415	Combined Food Prep & Serv Workers
68	Architects, Ex Landscape & Naval	504	Bus, Truck, Diesel Engine Mechanics	353	Communication Equip Oprs, Mail Wrks
157	Architecture Teachers, Postsecondary	167	Business Teachers, Postsecondary	358	Communication Equipment Oprs, NEC
161	Area/Ethnic/Cultural Studies Tchrs, Pstsc	409	Butchers & Meatcutters, Retail	18	Communication/Transportation/Utilities Mgrs
155	Art, Drama & Music Teachers, Pstscndry	607	Cabinetmakers & Bench Carpenters	510	Communications Equipment Mechanics
246	Artists & Commercial Artists	624	Camera Operators	516	Communications Equipmt Mechns, NEC
764	Assemblers & Fabricators, NEC	243	Camera Operators, TV/Movie/Video	152	Communications Teachers, Pstscndry
740	Assemblers, Precision	791	Captains, Water Vessels	620	Compositors & Typesetters, Precision
49	Assessors	229	Cardiology Technols/Techns	99	Computer & Math Occupations
254	Athletes, Coaches, Umpires	549	Carpenters	61	Computer Engineers
85	Atmospheric & Space Scientists	568	Carpet Installers	348	Computer Operators, Ex Peripheral
189	Audio-Visual Specialists	281	Cashiers	105	Computer Programmer Aides
502	Automotive Body Repairers	550	Ceiling Tile Installers & Acoust Carptrs	104	Computer Programmers
501	Automotive Mechanics	730	Cement & Gluing Machine Oprs/Tndrs	159	Computer Science Teachers, Pstscndry
441	Baggage Porters & Bellhops	511	Central Office & PBX Installers, Rprs	107	Computer Scientists, NEC
393	Bailiffs	357	Central Office Operators	103	Computer Support Specialists
408	Bakers, Bread & Pastry	57	Chemical Engineers	100	Computer Systems Anlsts/Engnrns/Scientists
632	Bakers, Manufacturing	723	Chemical Equipment Controllers/Oprs	108	Computer/Math Scientists & Rsrch Anlsts

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559	Concrete Fnrshr/Cement Msn/Terrazzo Wkr	519	Data Processing Equipment Repairers	675	Electrolytic Plate/Coat Machn Oprs, M/P
592	Construction & Extractive Workers, NEC	102	Database Administrators	674	Electrolytic Plate/Coat Machn Sttrs/Oprs, M/P
482	Construction & Rltd Supervisors, NEC	283	Demonstrators/Product Promoters	743	Electromechanical Equipment Assmblrs
16	Construction Managers	418	Dental Assistants	532	Electromedical & Biomedical Equip Rprs
547	Construction Trades & Extractive Occs	223	Dental Hygienists	228	Electroneurodiagnostic Techns
824	Construction Trades Helpers, NEC	640	Dental Lab Technicians, Precision	344	Electronic Data Procscng & Offc Machn Wkrs
548	Construction Trades Workers	197	Dentists	712	Electronic Semiconductor Processors
584	Construction Trades Workers, NEC	247	Designers, Ex Interior Designers	523	Electronics Rprs, Commrc'l & Indstrl Eqp
46	Construction, Bldg Inspectors	623	Desktop Publishing Specialists	538	Elevator Installers & Repairers
589	Continuous Mining Machine Operators	396	Detectives, Except Public	259	Embalmers
810	Conveyor Operators/Tenders	219	Dietetic Technicians	213	Emergency Medical Techns & Paramedics
412	Cooks, Fast Food	218	Dietitians & Nutritionists	41	Employment Interviewers
411	Cooks, Institution or Cafeteria	406	Dining Room & Cafeteria Helpers	156	Engineering Teachers, Postsecondary
384	Cooks, Private Household	129	Directors, Religious Activities/Education	72	Engineering Techns/Technols
410	Cooks, Restaurant	356	Directory Assistance Operators	80	Engineering Techns/Technols, NEC
413	Cooks, Short Order	366	Dispatchers, Ex Police, Fire & Ambulance	9	Engineering/Math/Computer/Ntrl Sci Mgrs
392	Correctional Officers	365	Dispatchers: Police, Fire, & Ambulance	53	Engineers
333	Correspondence Clerks	77	Drafters	52	Engineers & Related Occupations
44	Cost Estimators	647	Drilling & Boring Machn Setters/Oprs, M/P	66	Engineers, NEC
191	Counselors, Vocational Education	782	Drivers & Sales Workers	153	English Lang/Lit Teachers, Pstscndry
279	Counter & Rental Clerks	551	Drywall Installers	762	Engraving & Printing Wkrs, Hand
407	Counter Attendants, Lunchroom	346	Duplicating Machine Operators	78	Estimators & Drafters, Utilities
310	Court Clerks	230	EKG Technicians	803	Excavation & Loading Machine Operators
309	Court, Municipal, License Clerks	586	Earth Drillers, Ex Oil & Gas	2	Executive, Administrative & Managerial Occs
808	Crane & Tower Operators	162	Economics Teachers, Postsecondary	591	Extraction Workers, Ex Helpers, NEC
29	Credit Analysts	117	Economists	585	Extractive & Related Workers
293	Credit Authorizers	12	Education Administrators	735	Extrud/Form/Press Machine Oprs/Tndrs
294	Credit Checkers	170	Education Teachers, Postsecondary	734	Extrud/Form/Press Machine Setters/Oprs
394	Criminal Investigators, Federal	521	Elec Home Appliance & Power Tool Rprs	655	Extruding & Drawing Setters/Oprs, M/P
169	Criminal Justice/Law Enfrcmnt Tchrs, Pstsc	520	Elec Home Entertainment Equip Rprs	451	Farm Managers
398	Crossing Guards	528	Electric & Electronic Equip Mechs, NEC	184	Farm & Home Management Advisors
733	Crushing/Grinding/Mixg Machn Oprs/Tndrs	517	Electric & Electronic Equipment Mechanics	507	Farm Equipment Mechanics
190	Curators, Archivists & Museum Techns	533	Electric Meter Installers & Repairers	467	Farm Equipment Operators
612	Custom Tailors & Sewers	522	Electric Motor, Transformer Repairers	459	Farm Occupations
339	Customer Service Representatives	525	Electric Powerline Intallers & Repairers	450	Farm Operators & Managers
755	Cutters & Trimmers, Hand	748	Electrical & Electronic Assemblers	473	Farm Workers, Farm & Ranch Animals
726	Cutting & Slicing Machine Oprs/Tndrs	74	Electrical & Electronic Techns/Technols	472	Farm Workers, Food & Fiber Crops
725	Cutting & Slicing Machine Setters/Oprs	60	Electrical & Electronics Engineers	583	Fence Erectors
252	Dancers & Choreographers	527	Electrical Installers & Repairers	334	File Clerks
351	Data Entry Keyers, Composing	554	Electrical Workers	245	Film Editors
350	Data Entry Keyers, Ex Composing	744	Electrical/Electronic Equip Assmblrs, Prec	626	Film Strippers, Printing

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113	Financial Analysts, Statistical	86	Geologists, Geophysicists, Oceanogrphrs	173	Home Economics Teachers, Pstscndry
4	Financial Managers	581	Glaziers	421	Home Health Aides
34	Financial Specialists, NEC	22	Government Chief Executives & Legislators	402	Hosts & Hostesses:Restaurant, Lounge
389	Fire Fighters	806	Grader, Dozer & Scraper Operators	316	Hotel/Motel/Resort Desk Clerks
379	Fire Fighting & Prevention Supervisors	464	Graders & Sorters, Ag Products	385	Housekeepers & Butlers, Private
452	First Line Supervisors: Ag, Forest, Fish	145	Graduate Assistants, Teaching	42	Human Res, Training, Labor Rltns Specs
478	First Line Supervisors: Constrctn, Extrctn	763	Grinders & Polishers, Hand	332	Human Resources Clerks, Ex Payroll/Time
481	First Line Supervisors: Helpers, Laborers	649	Grinding Mach Setters/Oprs, M/P	5	Human Resources Managers
477	First Line Supervisors: Mechanics & Rprs	399	Guards	75	Industrial Engineering Techns/Technols
479	First Line Supervisors: Productn/Operatg	439	Guides	62	Industrial Engineers, Ex Safety
480	First Line Supervisors: Transportation	435	Hairdressers & Hairstylists	490	Industrial Machinery Mechanics
397	Fish & Game Wardens	815	Hand Labor & Material Moving Helpers	15	Industrial Production Managers
742	Fitters, Structural Metal, Precision	832	Hand Packers & Packagers	809	Industrial Truck & Tractor Operators
442	Flight Attendants	765	Hand Workers, NEC	287	Industry Specific Support Occs
569	Floor Layers, Ex Carpet	739	Handworking Occupations, Incl Assemblers	317	Industry Specific Workers, NEC
567	Floor Related Workers	558	Hard Tile Setters	483	Inspectors
570	Floor Sanding Machine Operators	578	Hazardous Materials Removal Wkrs	47	Inspectors & Compliance Officers
401	Food & Beverage Preparation	683	Head Sawyer	484	Inspectors, Testers, Graders, Precision
633	Food Batchmakers	210	Health Assessment & Treatment Occptns	487	Inspectors, Testers, NEC
416	Food Prep & Service Workers, NEC	195	Health Diagnosing Occs	381	Institutional Cleaning Supervisors
414	Food Preparation Workers	150	Health Diagnostics Teachers, Pstscndry	192	Instructional Coordinators
405	Food Servers	202	Health Practitioners, NEC	183	Instructors & Coaches, Sports
19	Food Service & Lodging Mgrs	194	Health Practitioners/Techns/Technols	182	Instructors, Adult (Non-VocEd)
630	Food Workers, Precision	234	Health Prof, Paraprof, & Techns, NEC	577	Insulation Workers
154	Foreign Lang/Lit Teachers, Pstscndry	417	Health Service Occupations	300	Insurance Adjusters/Examiners/Invstgtrs
462	Forest & Conservation Workers	427	Health Service Workers, NEC	301	Insurance Appraisers, Auto Damage
454	Forest & Logging Occupations	151	Health Specialties Teachers, Pstscndry	303	Insurance Claims Clerks
89	Foresters, Conservation Scientists	220	Health Technicians & Technologists	302	Insurance Examining Clerks
512	Frame Wiers, Central Office	530	Heat, A/C, Refrig Mechanics	304	Insurance Policy Processing Clerks
827	Freight, Stock & Material Movers, Hand	834	Helpers, Laborers & Movers, NEC	264	Insurance Sales Workers
830	Freight, Stock & Mtrl Mvrs, Hand, NEC	818	Helpers: Brick & Stone Masons	248	Interior Designers
447	Funeral Attendants	819	Helpers: Carpenters & Related	338	Interview Clerks, Except Personnel
258	Funeral Directors & Morticians	817	Helpers: Construction Trades	305	Investigative & Related Workers
719	Furnace, Kiln, Oven, Drier or Kettle Oprs	820	Helpers: Electricians & Related	307	Investigators, Clerical
608	Furniture Finishers	825	Helpers: Extractive Workers	430	Janitors & Cleaners
461	Gardening, Nursery, Lawn Occs	816	Helpers: Mechanics & Repairers	600	Jewelers & Silversmiths
541	Gas Appliance Repairers	821	Helpers: Painters & Paperhangers	621	Job Printers
23	General Managers & Top Executives	822	Helpers: Plumbers & Related	470	Laborers, Landscapers, & Groundskprs
323	General Office & Secretarial Workers	823	Helpers: Roofers	70	Landscape Architects
343	General Office Clerks	574	Highway Maintenance Workers	646	Lathe & Turning Machn Setters/Oprs, M/P
328	General Office Occupations	163	History Teachers, Postsecondary	553	Lathers

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709	Laundry & Drycleaning Machine Oprs	498	Machinery Maintenance Workers	13	Medical & Health Service Mgrs
131	Law & Related Occupations	496	Machinery Mechanics, NEC	419	Medical Assistants
136	Law Clerks	493	Machinery Mechanics: Marine	224	Medical Records & Health Info Techns
168	Law Teachers, Postsecondary	495	Machinery Mechanics: Water & Power	92	Medical Scientists
20	Lawn Service Managers	489	Machinery: Mechanic, Installer, Repairer	326	Medical Secretaries
134	Lawyers	596	Machinists	545	Menders, Garments & Linens
132	Lawyers & Judicial Workers	429	Maids & Housekeeping Cleaners	249	Merchandise Displayers & Windw Drssrs
143	Lecturers	359	Mail & Message Distribution Workers	363	Messengers
135	Legal Assistants & Technicians	360	Mail Clerks, Ex Mail Machine	680	Metal & Plastic Oprs/Tndrs, NEC
140	Legal Assistants, NEC	347	Mail Machine Operators	668	Metal & Plastic Process Machine Sttrs/Oprs
325	Legal Secretaries	499	Maintenance Repairers, General Utility	679	Metal & Plastic Setters/Oprs, NEC
690	Letterpress Operators	45	Management Analysts	663	Metal Fabricating Machn Setters/Oprs, M/P
187	Librarians	26	Management Support Occs	667	Metal Fabricators, Structural Metal
186	Librarians, Archivists, Curators	51	Management Support Workers, NEC	672	Metal Mold/Core/Cast Machine Oprs/Tndrs
318	Library Assistants & Bookmobile Drivers	24	Managers & Administrators, NEC	594	Metal Workers, Precision
188	Library Technicians	436	Manicurists	369	Meter Readers, Utilities
312	License Clerks	69	Marine Architects	648	Milling Machine Setters/Oprs, M/P
212	Licensed Practical/Vocational Nurses	65	Marine Engineers	497	Millwrights
146	Life Sciences Teachers, Postsecondary	261	Marketing & Sales Occupations	505	Mobile Heavy Equipment Mechanics
88	Life Scientists	262	Marketing & Sales Supervisors	540	Mobile Home Repairers
93	Life Scientists, NEC	263	Marketing & Sales, Service	760	Molders & Casters, Hand
10	Line & Middle Management	7	Marketing, Advertising, Public Rltns Mgrs	637	Molders & Shapers, Ex Jewelry/Foundry
628	Lithographic & Photengrvg Workers, NEC	371	Marking Clerks	713	Motion Picture Projectionists
295	Loan & Credit Clerks	555	Masonry Workers	776	Motor Vehicle Operators
292	Loan Interviewers	801	Material Moving Equipment Operators	783	Motor Vehicle Operators, NEC
30	Loan Officers & Counselors	813	Material Moving Equipment Oprs, NEC	503	Motorcycle Repairers
535	Locksmiths & Safe Repairers	364	Material Recordg/Schedulg/Distributg Occs	311	Municipal Clerks
786	Locomotive Engineers	375	Material Recording Workers, NEC	250	Music Directors, Singers & Related Wkrs
313	Lodging & Travel Workers	55	Materials Engineers	534	Musical Instrument Repairers/Tuners
456	Log Handling Equipment Operators	792	Mates: Ship, Boat & Barge	251	Musicians, Instrumental
457	Logging Tractor Operators	158	Math & Science Teachers, Pstscndry	81	Natural Scientists & Related Occs
802	Longshore Equipment Operators	114	Mathematical Scientist, NEC	290	New Accounts Clerks, Banking
747	Machine Assemblers	110	Mathematical Scientists	58	Nuclear Engineers
741	Machine Builder Assemblers, Precision	758	Meat, Poultry & Fish Cutters, Hand	226	Nuclear Medicine Technologists
651	Machine Cut/Form Setters/Oprs, M/P	537	Mechanical Control Installers & Repairers	659	Numerical & Combination Machn Sttrs/Oprs
826	Machine Feeders & Offbearers	76	Mechanical Engineering Techns/Technols	660	Numerical Control Machn Operators, M/P
658	Machine Forming Operators, M/P	64	Mechanical Engineers	420	Nursing Aides & Orderlies
738	Machine Operators/Tenders, NEC	488	Mechanics, Installers, & Repairers	144	Nursing Instructors
643	Machine Setters, Set-Up Opr/Tndrs	546	Mechanics, Installers, & Repairers, NEC	205	Occupational Therapists
737	Machine Setters/Setup Oprs, NEC	222	Medical & Clinical Lab Technicians	424	Occupational Therapy Assistants
650	Machine Tool Cutting Oprs, M/P	221	Medical & Clinical Lab Technologists	536	Office Machine & Cash Register Servicers

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352	Office Machine Operators, NEC	426	Pharmacy Assistants	745	Precision Assemblers, Metral, NEC
689	Offset Lithographic Press Oprs	217	Pharmacy Technicians	634	Precision Food & Tobacco Workers, NEC
812	Operating Engineers	171	Philosophy/Religion Teachers, Pstscndry	531	Precision Instrument Repairers
109	Operations Research Analysts	698	Photoengraving & Lithographic Oprs/Tndrs	603	Precision Metal Workers, NEC
642	Operators, Fabricators, & Laborers	242	Photographers	593	Precision Production Occupations
639	Ophthalmic Laboratory Technicians	714	Photographic Process Machine Oprs	475	Precision Production, Craft & Repair Occs
215	Opticians, Dispensing & Measuring	638	Photographic Process Wkrs, Precision	618	Precision Textile Workers, NEC
198	Optometrists	98	Physical & Life Science Tchns/Tchnls, NEC	609	Precision Woodworkers, NEC
335	Order Clerks: Materials, Service	94	Physical & Life Science Tchns/Technols	641	Precision Workers, NEC
373	Order Fillers, Wholesale/Retail	149	Physical Science Teachers, Pstscndry, NEC	653	Press Machine Setters/Oprs, M/P
460	Other Agriculture & Forestry Occupations	82	Physical Scientists	616	Pressers, Delicate Fabric
576	Other Construction Trades Workerrs	87	Physical Scientists, NEC	710	Pressing Machine Oprs/Tndrs, Textiles
746	Other Hand Workers & Assemblers	206	Physical Therapists	688	Print Press Machine Setters
831	Other Helpers, Laborers & Movers	423	Physical, Corrective Therapy Assistants	697	Printing Press Machine Oprs/Tndrs
711	Other Machine Setters/Oprs,Tndrs	214	Physician Assistants	691	Printing Press Setters/Oprs, NEC
43	Other Management Support Workers	196	Physicians	695	Printing Setters/Oprs, NEC
21	Other Managers & Administrators	83	Physicists & Astronomers	619	Printing Workers, Precision
529	Other Mechanics, Installers & Repairers	148	Physics Teachers, Postsecondary	687	Printing, Binding, & Related Occs
678	Other Metal & Plastic Setters/Oprs/Tndrs	796	Pilot, Flight Engineer Occs	700	Printing, Binding, & Related Workers, NEC
635	Other Precision Workers	566	Pipelayers	383	Private Household Workers
255	Other Prof, Paraprof, Techns	565	Pipelaying Fitters	336	Procurement Clerks
273	Other Sales Workers	766	Plant & System Occupations	253	Producers, Directors, Actors
797	Other Transportation Workers	774	Plant & System Oprs, NEC	485	Production Inspectors, Graders
736	Packaging & Filling Machine Oprs/Tndrs	561	Plasterers & Stucco Masons	367	Production, Planning & Expediting Clerks
562	Painters, Paperhangers & Related Workers	670	Plastic Molding/Casting Machn Oprs/Tndrs	476	Production/Construction/Maintenance Sprvs
727	Painters, Transportation Equipment	669	Plastic Molding/Casting Machn Sttrs/Oprs	260	Prof, Paraprof, Techns, NEC
761	Painting, Coating & Decoratg Wkrs, Hand	627	Platemakers	25	Professional Specialty Occs
716	Paper Goods Machine Setters/Oprs	563	Plumbers & Related Workers	321	Proofreaders & Copy Markers
137	Paralegals & Legal Assistants	564	Plumbers, Pipefitters, & Steamfitters	14	Property & Real Estate Mgrs
799	Parking Lot Attendants	199	Podiatrists	388	Protective Service Occupations
172	Parks/Rec/Leisure/Fitns Stds Teachers	380	Police & Detective Supervisors	400	Protective Service Workers, NEC
622	Paste-up Workers	390	Police Detectives	468	Pruners
605	Pattern & Model Makers, Wood	391	Police Patrol Officers	422	Psychiatric Aides
573	Paving, Surfacing, & Tamping Operators	164	Political Science Teachers, Postsecondary	232	Psychiatric Technicians
341	Payroll & Timekeeping Clerks	361	Postal Mail Carriers	165	Psycholgy Teachers, Postsecondary
349	Peripheral EDP Equipment Operators	362	Postal Service Clerks	119	Psychologists
445	Personal & Home Care Aides	11	Postmasters, Mail Superintendents	238	Public Relations Specialists
39	Personnel Specialists, Related	174	Postsecondary Teachers, NEC	811	Pump Operators
431	Pest Controllers & Assistants	524	Power & Substation, Electricians	652	Punching Machine Setters/Oprs, M/P
97	Petroleum Tchns/Technols	772	Power Distributors & Dispatchers	35	Purchasing Agents & Buyers
216	Pharmacists	770	Power Generating Plant Oprs	37	Purchasing Agts & Buyers, Farm

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38	Purchasing Agts, Ex Who/Ret/Farm	625	Scanner Operators	297	Statement Clerks
6	Purchasing Managers	693	Screen Printing Machine Setters/Oprs	526	Station Installers & Repairers, Telephone
225	Radiation Therapists	793	Seamen, Able	773	Stationary Engineers
515	Radio Mechanics	794	Seamen, Ordinary & Maine Oilers	337	Statistical Clerks
227	Radiologic Technologists & Technicians	327	Secretaries, Except Legal or Medical	111	Statisticians
506	Rail Car Repairers	324	Secretaries, Total	329	Stenographers
784	Rail Transportation Workers	268	Securities/Commodities/Financial Svcs, Sls	828	Stevedores, Ex Equipment Operators
575	Rail-Track Laying & Maint Equip Oprs	299	Selected Insurance Workers	280	Stock Clerks, Sales Floor
789	Railroad Brake, Signal & Switch Oprs	644	Selected Machn Sttrs, Set-Up Oprs/Tndrs	372	Stock Clerks:Stockroom/Warehouse/Yard
785	Railroad Conductors & Yardmasters	433	Selected Personal Service Occs	557	Stone Masons
267	Real Estate Appraisers	732	Separating & Still Machn Sttrs/Oprs/Tndrs	582	Structural Metal Workers
322	Real Estate Clerks	377	Service Occupations	788	Subway & Streetcar Oprs
330	Receptionists & Information Clerks	448	Service Occupations, NEC	453	Supervisors, Farm Workers
126	Recreation Workers	798	Service Station Attendants	231	Surgical Technologists
208	Recreational Therapists	382	Service Supervisors, NEC	79	Surveying & Mapping Techns
829	Refuse/Recyclable Material Collectors	378	Service Workers Supervisors	71	Surveyors, Cartogrphrs & Photogramtrsts
211	Registered Nurses	707	Sewing Machine Oprs, Garment	355	Switchboard Operators
560	Reinforcing Metal Workers	708	Sewing Machine Oprs, Non-Garment	101	Systems Analysts
127	Religious Workers	437	Shampooers	552	Tapers
130	Religious Workers, NEC	654	Shear Machine Setters/Oprs, M/P	48	Tax Examiners, Collectors, Revenue Agts
239	Reporters & Correspondents	579	Sheet Metal Duct Installers	31	Tax Preparers
315	Reservation & Transportation Tckt Agnts	601	Sheet Metal Workers	781	Taxi Drivers & Chauffeurs
124	Residential Counselors	395	Sheriffs & Deputy Sheriffs	319	Teacher Aides & Educational Assts
204	Respiratory Therapists	795	Ship Engineers	193	Teacher Aides, Paraprofessional
539	Riggers	599	Shipfitters	185	Teachers & Instructors, NEC
571	Road, Rail, Construction & Maintenance	614	Shoe & Leather Workers, Precision	175	Teachers & Instructors, Sec & Elem
656	Rolling Machine Setters/Oprs, M/P	631	Slaughterers & Meat Packers	181	Teachers & Instructors, VocED
580	Roofers	509	Small Engine Specialists	141	Teachers Librarians & Counselors
63	Safety Engineers, Ex Mining	121	Social & Recreation Wkrs	178	Teachers, Elementary
284	Sales & Related Workers, NEC	166	Social Sciences, Teachers, Pstscndry, NEC	177	Teachers, Kindergarten, Educ Srvcs
271	Sales Agents, Advertising	116	Social Scientists	176	Teachers, Preschool, Educ Srvcs
269	Sales Agents, Business	120	Social Scientists, NEC	179	Teachers, Secondary School
266	Sales Agents, Real Estate	115	Social Scientists, Recreation & Relig Occs	180	Teachers, Special Education
274	Sales Engineers	123	Social Workers, Ex Med, Psych	237	Technical Writers
276	Sales Representatives, Mfg & Wholesale	122	Social Workers, Med & Psych	513	Telegraph & Teletype Installers, Rprs
275	Sales Representatives, Science	125	Social/Human Service Assistants	282	Telemarketers, Door-To-Door Sales
272	Sales Reps, Services, NEC	752	Solderers & Brazers	518	Telephone & Cable TV Installers, Rprs
278	Salespersons, Parts	40	Special Agents, Insurance	354	Telephone Operators
277	Salespersons, Retail	207	Speech Pathologists, Audiologists	701	Textile & Related Setters/Oprs/Wkrs
684	Sawing Machine Operators/Tenders	615	Spotters, Dry Cleaning	703	Textile Machine Oprs/Tndrs
682	Sawing Machine Setters/Set-Up Oprs	469	Sprayers & Applicators	610	Textile, Apparel, Furnish Wkrs, Precision

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203	Therapists	800	Transportation Workers, NEC	444	Wardrobe & Dressing Room Attendants
209	Therapists, NEC	270	Travel Agents	767	Water & Waste Treatment Plant Oprs
544	Tire Repairers & Changers	314	Travel Clerks	790	Water Transportation Occs
139	Title Examiners & Abstractors	777	Truck Drivers, Heavy	370	Weighers, Measurers, Checkers
138	Title Searchers	778	Truck Drivers, Light	751	Welders & Cutters
595	Tool & Die Makers	696	Typesetting & Composing Machine Oprs	665	Welding Machine Operators/Tenders
597	Tool Grinders, Filers, & Sharpeners	331	Typists, Incl Word Processing	664	Welding Machine Setters/Set-Up Oprs
1	Total, All Occupations	28	Underwriters	306	Welfare Eligibility Workers
257	Traffic Technicians	613	Upholsterers	36	Wholesale/Retail Buyers, Ex Farm
374	Traffic, Shipping & Receiving Clerks	118	Urban & Regional Planners	606	Wood Machinists
291	Transit Clerks	440	Ushers, Lobby Attendants, & Ticket Tkrs	604	Woodworkers, Precision
775	Transportation & Material Mvng Machn Oprs	500	Vehicle & Mobile Equipment Mechanics	681	Woodworking Machine Setters/Oprs/Tndrs
814	Transportation & Mtrl Mvng Eqp Oprs, NEC	201	Veterinarians & Vet Inspectors	685	Woodworking Machn Setters, Ex Sawing
368	Transportation Agents	471	Veterinary Assistants	686	Woodwrkng Machn Oprs/Tndrs, Ex Sawing
443	Transportation Attendants	233	Veterinary Technols/Techns	236	Writers & Editors
486	Transportation Inspectors	404	Waiters & Waitresses	235	Writers, Editors, Artists, Entertainers, Athlts

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
1	Total, All Occupations	1,030,099	1,415,152	627,820	37.38%	24,259	38,523	62,782
2	Executive, Administrative & Managerial Occs	83,865	118,624	49,510	41.45%	1,475	3,476	4,951
3	Administrative Specialty Mgrs	24,459	37,541	17,250	53.49%	416	1,309	1,725
4	Financial Managers	6,229	8,465	3,230	35.90%	99	224	323
5	Human Resources Managers	1,976	2,912	1,400	47.37%	46	94	140
6	Purchasing Managers	1,188	1,458	540	22.73%	27	27	54
7	Marketing, Advertising, Public Rltns Mgrs	5,555	8,842	4,060	59.17%	77	329	406
8	Administrative Services Mgrs	3,936	6,259	3,010	59.02%	69	232	301
9	Engineering/Math/Computer/Ntrl Sci Mgrs	5,575	9,605	5,010	72.29%	98	403	501
10	Line & Middle Management	14,509	19,214	7,360	32.43%	266	470	736
11	Postmasters, Mail Superintendents	263	273	60	3.80%	5	1	6
12	Education Administrators	2,625	3,865	1,900	47.24%	66	124	190
13	Medical & Health Service Mgrs	874	1,387	670	58.70%	16	51	67
14	Property & Real Estate Mgrs	1,805	2,135	570	18.28%	24	33	57
15	Industrial Production Managers	567	582	120	2.65%	10	2	12
16	Construction Managers	2,874	3,655	1,280	27.17%	50	78	128
18	Communication/Transportation/Utilities Mgrs	1,976	2,621	1,000	32.64%	35	65	100
19	Food Service & Lodging Mgrs	3,290	4,372	1,660	32.89%	58	108	166
20	Lawn Service Managers	203	293	110	44.33%	2	9	11
21	Other Managers & Administrators	44,897	61,869	24,900	37.80%	793	1,697	2,490
22	Government Chief Executives & Legislators	671	755	250	12.52%	17	8	25
23	General Managers & Top Executives	32,634	45,441	18,530	39.24%	572	1,281	1,853
24	Managers & Administrators, NEC	11,592	15,673	6,120	35.21%	204	408	612
25	Professional Specialty Occs	276,413	437,987	214,730	58.45%	5,307	16,166	21,473
26	Management Support Occs	46,245	63,095	25,630	36.44%	876	1,687	2,563
27	Accountants, Auditors, Financial Specialists	17,562	24,894	10,650	41.75%	332	733	1,065
28	Underwriters	721	887	370	23.02%	20	17	37
29	Credit Analysts	209	287	130	37.32%	5	8	13
30	Loan Officers & Counselors	2,978	4,401	2,070	47.78%	65	142	207

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
31	Tax Preparers	566	869	420	53.53%	12	30	42
32	Accountants & Auditors	8,799	12,571	5,130	42.87%	136	377	513
33	Budget Analysts	1,633	2,015	740	23.39%	36	38	74
34	Financial Specialists, NEC	2,656	3,864	1,790	45.48%	58	121	179
35	Purchasing Agents & Buyers	3,996	4,695	1,720	17.49%	102	70	172
36	Wholesale/Retail Buyers, Ex Farm	730	801	250	9.73%	18	7	25
37	Purchasing Agts & Buyers, Farm	79	85	30	7.59%	2	1	3
38	Purchasing Agts, Ex Who/Ret/Farm	3,187	3,809	1,440	19.52%	82	62	144
39	Personnel Specialists, Related	5,420	7,349	3,380	35.59%	144	194	338
40	Special Agents, Insurance	138	175	80	26.81%	4	4	8
41	Employment Interviewers	952	1,467	770	54.10%	25	52	77
42	Human Res, Training, Labor Rltns Specs	4,320	5,695	2,530	31.83%	115	138	253
43	Other Management Support Workers	19,267	26,157	9,880	35.76%	298	690	988
44	Cost Estimators	1,324	1,709	550	29.08%	16	39	55
45	Management Analysts	5,918	8,575	3,130	44.90%	47	266	313
46	Construction, Bldg Inspectors	900	1,193	520	32.56%	23	29	52
47	Inspectors & Compliance Officers	1,422	1,599	440	12.45%	26	18	44
48	Tax Examiners, Collectors, Revenue Agts	501	547	160	9.18%	11	5	16
49	Assessors	201	245	90	21.89%	5	4	9
50	Claims Examiners, Insurance	242	311	110	28.51%	4	7	11
51	Management Support Workers, NEC	8,759	11,978	4,880	36.75%	166	322	488
52	Engineers & Related Occupations	46,200	76,079	38,490	64.67%	865	2,984	3,849
53	Engineers	28,362	52,148	28,460	83.87%	468	2,378	2,846
54	Aerospace Engineers	935	1,028	240	9.95%	15	9	24
55	Materials Engineers	128	176	80	37.50%	3	5	8
57	Chemical Engineers	318	409	160	28.62%	7	9	16
58	Nuclear Engineers	330	315	80	-4.55%	8	-2	8
59	Civil Engineers, Incl Traffic	3,132	4,641	2,110	48.18%	60	151	211
60	Electrical & Electronics Engineers	5,376	8,007	3,780	48.94%	115	263	378

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
61	Computer Engineers	9,992	26,288	16,920	163.09%	62	1,630	1,692
62	Industrial Engineers, Ex Safety	676	909	330	34.47%	10	23	33
63	Safety Engineers, Ex Mining	209	294	120	40.67%	3	9	12
64	Mechanical Engineers	2,194	2,994	1,220	36.46%	42	80	122
65	Marine Engineers	59	76	30	28.81%	1	2	3
66	Engineers, NEC	4,946	6,919	3,370	39.89%	140	197	337
67	Architects & Surveyors	3,036	3,929	1,420	29.41%	54	88	142
68	Architects, Ex Landscape & Naval	1,746	2,440	950	39.75%	26	69	95
69	Marine Architects	132	126	30	-4.55%	3	-1	3
70	Landscape Architects	239	302	100	26.36%	4	6	10
71	Surveyors, Cartogrphrs & Photogramtrsts	919	1,061	350	15.45%	21	14	35
72	Engineering Techns/Technols	14,802	20,002	8,610	35.13%	343	518	861
73	Civil Engineering Techns/Technols	1,213	1,801	900	48.47%	31	59	90
74	Electrical & Electronic Techns/Technols	4,278	5,871	2,460	37.24%	87	159	246
75	Industrial Engineering Techns/Technols	132	186	80	40.91%	3	5	8
76	Mechanical Engineering Techns/Technols	988	1,212	420	22.67%	20	22	42
77	Drafters	3,362	4,576	2,020	36.11%	81	121	202
78	Estimators & Drafters, Utilities	31	23	10	-25.81%	1	-1	1
79	Surveying & Mapping Techns	1,419	2,083	980	46.79%	32	66	98
80	Engineering Techns/Technols, NEC	3,379	4,250	1,750	25.78%	88	87	175
81	Natural Scientists & Related Occs	5,648	7,665	3,390	35.71%	136	203	339
82	Physical Scientists	2,646	3,522	1,550	33.11%	67	88	155
83	Physicists & Astronomers	301	325	100	7.97%	8	2	10
84	Chemists	446	572	230	28.25%	10	13	23
85	Atmospheric & Space Scientists	72	87	40	20.83%	2	2	4
86	Geologists, Geophysicists, Oceanogrphrs	707	1,145	620	61.95%	18	44	62
87	Physical Scientists, NEC	1,120	1,393	560	24.38%	29	27	56
88	Life Scientists	1,435	1,999	900	39.30%	33	57	90
89	Foresters, Conservation Scientists	139	144	50	3.60%	4	1	5

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
90	Agricultural & Food Scientists	111	138	60	24.32%	3	3	6
91	Biological Scientists	859	1,267	590	47.50%	18	41	59
92	Medical Scientists	86	98	40	13.95%	3	1	4
93	Life Scientists, NEC	240	352	160	46.67%	5	11	16
94	Physical & Life Science Techns/Technols	1,567	2,144	940	36.82%	36	58	94
95	Biological, Agriculture & Food Techns	440	636	300	44.55%	10	20	30
96	Chemical Techns/Technols, Ex Health	298	419	190	40.60%	7	12	19
97	Petroleum Techns/Technols	42	58	30	38.10%	1	2	3
98	Physical & Life Science Tchns/Tchnls, NEC	756	980	390	29.63%	17	22	39
99	Computer & Math Occupations	49,406	103,220	62,390	108.92%	857	5,382	6,239
100	Computer Systems Anlsts/Engnrs/Scientist s	46,735	99,820	61,010	113.59%	792	5,309	6,101
101	Systems Analysts	15,034	35,373	21,270	135.29%	93	2,034	2,127
102	Database Administrators	1,809	4,867	3,350	169.04%	29	306	335
103	Computer Support Specialists	8,586	23,317	15,260	171.57%	53	1,473	1,526
104	Computer Programmers	17,414	28,720	16,710	64.92%	540	1,131	1,671
105	Computer Programmer Aides	2,129	3,271	1,800	53.64%	66	114	180
107	Computer Scientists, NEC	1,748	4,254	2,620	143.36%	11	251	262
108	Computer/Math Scientists & Rsrch Anlsts	2,671	3,400	1,380	27.29%	65	73	138
109	Operations Research Analysts	1,540	1,924	860	24.94%	48	38	86
110	Mathematical Scientists	63	90	40	42.86%	1	3	4
111	Statisticians	405	470	130	16.05%	6	7	13
112	Actuaries	78	110	40	41.03%	1	3	4
113	Financial Analysts, Statistical	393	651	320	65.65%	6	26	32
114	Mathematical Scientist, NEC	176	141	30	-19.89%	3	-4	3
115	Social Scientists, Recreation & Relig Occs	11,638	17,816	8,450	53.08%	225	620	845
116	Social Scientists	3,406	4,455	1,740	30.80%	69	105	174
117	Economists	804	1,134	500	41.04%	17	33	50
118	Urban & Regional Planners	908	1,215	490	33.81%	18	31	49
119	Psychologists	635	904	390	42.36%	12	27	39

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
120	Social Scientists, NEC	1,059	1,202	360	13.50%	22	14	36
121	Social & Recreation Wkrs	7,859	12,758	6,420	62.34%	150	492	642
122	Social Workers, Med & Psych	1,553	2,458	1,110	58.27%	20	91	111
123	Social Workers, Ex Med, Psych	2,410	3,845	1,750	59.54%	31	144	175
124	Residential Counselors	892	1,797	1,110	101.46%	20	91	111
125	Social/Human Service Assistants	1,671	2,760	1,530	65.17%	44	109	153
126	Recreation Workers	1,333	1,898	920	42.39%	35	57	92
127	Religious Workers	373	603	290	61.66%	6	23	29
128	Clergy	139	213	100	53.24%	3	7	10
129	Directors, Religious Activities/Education	157	274	140	74.52%	2	12	14
130	Religious Workers, NEC	77	116	50	50.65%	1	4	5
131	Law & Related Occupations	7,564	9,810	3,060	29.69%	81	225	306
132	Lawyers & Judicial Workers	4,773	6,132	1,910	28.47%	55	136	191
133	Adjudicators, Hearing Officers	792	782	120	-1.26%	12	-1	12
134	Lawyers	3,957	5,326	1,800	34.60%	43	137	180
135	Legal Assistants & Technicians	2,791	3,678	1,150	31.78%	26	89	115
136	Law Clerks	829	762	90	-8.08%	9	-7	9
137	Paralegals & Legal Assistants	1,377	2,209	950	60.42%	12	83	95
138	Title Searchers	134	133	10	-0.75%	1	0	1
139	Title Examiners & Abstractors	144	142	10	-1.39%	1	0	1
140	Legal Assistants, NEC	307	432	160	40.72%	3	13	16
141	Teachers Librarians & Counselors	49,266	73,594	34,480	49.38%	1,015	2,433	3,448
142	College & University Faculty	3,278	5,916	3,520	80.48%	88	264	352
143	Lecturers	116	164	70	41.38%	2	5	7
144	Nursing Instructors	115	194	100	68.70%	2	8	10
145	Graduate Assistants, Teaching	220	378	220	71.82%	6	16	22
146	Life Sciences Teachers, Postsecondary	89	166	100	86.52%	2	8	10
147	Chemistry Teachers, Postsecondary	44	77	40	75.00%	1	3	4
148	Physics Teachers, Postsecondary	30	52	30	73.33%	1	2	3

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
149	Physical Science Teachers, Pstscndry, NEC	49	85	50	73.47%	1	4	5
150	Health Diagnostics Teachers, Pstscndry	270	549	350	103.33%	7	28	35
151	Health Specialties Teachers, Pstscndry	60	128	90	113.33%	2	7	9
152	Communications Teachers, Pstscndry	28	58	40	107.14%	1	3	4
153	English Lang/Lit Teachers, Pstscndry	177	308	180	74.01%	5	13	18
154	Foreign Lang/Lit Teachers, Pstscndry	73	127	70	73.97%	2	5	7
155	Art, Drama & Music Teachers, Pstscndry	163	318	210	95.09%	5	16	21
156	Engineering Teachers, Postsecondary	97	168	100	73.20%	3	7	10
157	Architecture Teachers, Postsecondary	20	34	20	70.00%	1	1	2
158	Math & Science Teachers, Pstscndry	135	232	140	71.85%	4	10	14
159	Computer Science Teachers, Pstscndry	110	247	170	124.55%	3	14	17
160	Anthropology/Sociology Tchrs, Pstscndry	54	93	50	72.22%	1	4	5
161	Area/Ethnic/Cultural Studies Tchrs, Pstsc	17	29	10	70.59%	0	1	1
162	Economics Teachers, Postsecondary	46	80	40	73.91%	1	3	4
163	History Teachers, Postsecondary	83	143	80	72.29%	2	6	8
164	Political Science Teachers, Postsecondary	46	80	40	73.91%	1	3	4
165	Psycholgy Teachers, Postsecondary	81	140	80	72.84%	2	6	8
166	Social Sciences, Teachers, Pstscndry, NEC	34	59	40	73.53%	1	3	4
167	Business Teachers, Postsecondary	246	459	280	86.59%	7	21	28
168	Law Teachers, Postsecondary	66	138	90	109.09%	2	7	9
169	Criminal Justice/Law Enfrcmnt Tchrs, Pstsc	21	36	30	71.43%	1	2	3
170	Education Teachers, Postsecondary	94	163	100	73.40%	3	7	10
171	Philosphy/Religion Teachers, Pstscndry	47	81	40	72.34%	1	3	4
172	Parks/Rec/Leisure/Fitns Stds Teachers	22	47	40	113.64%	1	3	4
173	Home Economics Teachers, Pstscndry	21	33	20	57.14%	1	1	2
174	Postsecondary Teachers, NEC	582	1,012	590	73.88%	16	43	59
175	Teachers & Instructors, Sec & Elem	37,445	54,889	25,290	46.59%	784	1,745	2,529
176	Teachers, Preschool, Educ Srvcs	3,117	5,349	2,890	71.61%	66	223	289
177	Teachers, Kindergarten, Educ Srvcs	1,058	1,436	610	35.73%	23	38	61

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
178	Teachers, Elementary	10,936	14,241	5,840	30.22%	253	331	584
179	Teachers, Secondary School	9,918	14,186	7,440	43.03%	317	427	744
180	Teachers, Special Education	2,505	3,909	1,610	56.05%	21	140	161
181	Teachers & Instructors, VocED	2,007	3,544	1,750	76.58%	21	154	175
182	Instructors, Adult (Non-VocEd)	793	1,695	980	113.75%	8	90	98
183	Instructors & Coaches, Sports	2,591	4,111	1,790	58.66%	27	152	179
184	Farm & Home Management Advisors	62	59	10	-4.84%	1	0	1
185	Teachers & Instructors, NEC	4,458	6,359	2,370	42.64%	47	190	237
186	Librarians, Archivists, Curators	8,543	12,789	5,670	49.70%	143	424	567
187	Librarians	1,382	1,680	650	21.56%	35	30	65
188	Library Technicians	664	828	340	24.70%	18	16	34
189	Audio-Visual Specialists	112	122	30	8.93%	2	1	3
190	Curators, Archivists & Museum Techns	110	124	40	12.73%	3	1	4
191	Counselors, Vocational Education	1,166	1,812	920	55.40%	27	65	92
192	Instructional Coordinators	1,305	2,248	1,080	72.26%	14	94	108
193	Teacher Aides, Paraprofessional	3,804	5,975	2,610	57.07%	44	217	261
194	Health Practitioners/Techns/Technols	34,565	50,239	22,170	45.35%	644	1,573	2,217
195	Health Diagnosing Occs	4,726	6,991	3,100	47.93%	82	228	310
196	Physicians	3,307	4,996	2,210	51.07%	52	169	221
197	Dentists	746	1,002	410	34.32%	15	26	41
198	Optometrists	137	202	100	47.45%	3	7	10
199	Podiatrists	31	44	20	41.94%	1	1	2
200	Chiropractors	60	129	80	115.00%	1	7	8
201	Veterinarians & Vet Inspectors	412	547	230	32.77%	9	14	23
202	Health Practitioners, NEC	33	71	50	115.15%	1	4	5
203	Therapists	2,209	3,717	1,840	68.27%	33	151	184
204	Respiratory Therapists	341	509	220	49.27%	5	17	22
205	Occupational Therapists	377	640	320	69.76%	6	26	32
206	Physical Therapists	626	1,113	580	77.80%	9	49	58

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
207	Speech Pathologists, Audiologists	576	1,031	550	78.99%	9	46	55
208	Recreational Therapists	117	161	60	37.61%	2	4	6
209	Therapists, NEC	154	243	110	57.79%	2	9	11
210	Health Assessment & Treatment Occpntns	18,503	26,055	11,050	40.82%	348	757	1,105
211	Registered Nurses	10,450	14,766	6,040	41.30%	172	432	604
212	Licensed Practical/Vocational Nurses	4,299	6,335	2,960	47.36%	92	204	296
213	Emergency Medical Techns & Paramedics	515	717	330	39.22%	13	20	33
214	Physician Assistants	383	700	380	82.77%	6	32	38
215	Opticians, Dispensing & Measuring	590	756	240	28.14%	7	17	24
216	Pharmacists	1,174	1,401	550	19.34%	32	23	55
217	Pharmacy Technicians	753	919	360	22.05%	19	17	36
218	Dietitians & Nutritionists	241	320	130	32.78%	5	8	13
219	Dietetic Technicians	98	141	60	43.88%	2	4	6
220	Health Technicians & Technologists	9,127	13,476	6,180	47.65%	181	437	618
221	Medical & Clinical Lab Technologists	938	1,172	350	24.95%	12	23	35
222	Medical & Clinical Lab Technicians	895	1,261	480	40.89%	11	37	48
223	Dental Hygienists	1,112	1,792	930	61.15%	25	68	93
224	Medical Records & Health Info Techns	379	607	320	60.16%	9	23	32
225	Radiation Therapists	58	65	20	12.07%	1	1	2
226	Nuclear Medicine Technologists	56	65	20	16.07%	1	1	2
227	Radiologic Technologists & Technicians	1,052	1,407	510	33.75%	15	36	51
228	Electroneurodiagnostic Techns	38	41	10	7.89%	1	0	1
229	Cardiology Technols/Techns	161	249	130	54.66%	4	9	13
230	EKG Technicians	89	94	30	5.62%	2	1	3
231	Surgical Technologists	177	275	140	55.37%	4	10	14
232	Psychiatric Technicians	627	742	210	18.34%	9	12	21
233	Veterinary Technols/Techns	363	421	140	15.98%	8	6	14
234	Health Prof, Paraprof, & Techns, NEC	3,182	5,285	2,890	66.09%	79	210	289
235	Writers, Editors, Artists, Entertainers, Athlts	11,806	17,290	8,140	46.45%	265	549	814

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
236	Writers & Editors	2,060	3,054	1,530	48.25%	54	99	153
237	Technical Writers	1,352	2,359	1,360	74.48%	35	101	136
238	Public Relations Specialists	1,447	2,213	1,150	52.94%	38	77	115
239	Reporters & Correspondents	518	502	160	-3.09%	16	-2	16
240	Broadcast News Analysts	29	30	10	3.45%	1	0	1
241	Announcers, Radio & TV	233	218	60	-6.44%	6	-2	6
242	Photographers	397	426	90	7.30%	6	3	9
243	Camera Operators, TV/Movie/Video	58	88	40	51.72%	1	3	4
244	Broadcast & Sound Technicians	186	212	80	13.98%	5	3	8
245	Film Editors	46	62	30	34.78%	1	2	3
246	Artists & Commercial Artists	1,494	2,154	970	44.18%	31	66	97
247	Designers, Ex Interior Designers	1,869	2,681	1,080	43.45%	27	81	108
248	Interior Designers	363	558	250	53.72%	5	20	25
249	Merchandise Displayers & Window Dressers	186	223	70	19.89%	3	4	7
250	Music Directors, Singers & Related Workers	176	296	150	68.18%	3	12	15
251	Musicians, Instrumental	336	587	310	74.70%	6	25	31
252	Dancers & Choreographers	111	133	40	19.82%	2	2	4
253	Producers, Directors, Actors	641	1,043	540	62.71%	14	40	54
254	Athletes, Coaches, Umpires	303	450	260	48.51%	11	15	26
255	Other Prof, Paraprof, Techns	14,075	19,179	8,530	36.26%	343	510	853
256	Air Traffic Controllers	645	637	180	-1.24%	18	-1	18
257	Traffic Technicians	250	215	70	-14.00%	7	-4	7
258	Funeral Directors & Morticians	107	122	40	14.02%	2	2	4
259	Embalmers	40	42	10	5.00%	1	0	1
260	Prof, Paraprof, Techns, NEC	13,006	18,135	8,270	39.44%	314	513	827
261	Marketing & Sales Occupations	125,761	163,795	75,830	30.24%	3,778	3,805	7,583
262	Marketing & Sales Supervisors	13,903	18,313	6,230	31.72%	182	441	623
263	Marketing & Sales, Service	14,393	20,566	9,420	42.89%	324	618	942
264	Insurance Sales Workers	1,947	2,411	900	23.83%	44	46	90

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
265	Brokers, Real Estate	231	256	80	10.82%	5	3	8
266	Sales Agents, Real Estate	1,188	1,293	350	8.84%	24	11	35
267	Real Estate Appraisers	381	461	160	21.00%	8	8	16
268	Securities/Commodities/Financial Svcs, SIs	1,240	1,845	700	48.79%	9	61	70
269	Sales Agents, Business	4,518	7,310	3,720	61.80%	93	279	372
270	Travel Agents	1,886	2,488	1,000	31.92%	40	60	100
271	Sales Agents, Advertising	1,139	1,456	640	27.83%	32	32	64
272	Sales Reps, Services, NEC	1,863	3,046	1,870	63.50%	69	118	187
273	Other Sales Workers	97,465	124,916	60,180	28.16%	3,272	2,746	6,018
274	Sales Engineers	983	1,333	540	35.61%	19	35	54
275	Sales Representative s, Science	4,510	6,239	2,830	38.34%	110	173	283
276	Sales Representatives, Mfg & Wholesale	6,760	8,074	2,960	19.44%	165	131	296
277	Salespersons, Retail	36,859	45,800	21,430	24.26%	1,249	894	2,143
278	Salespersons, Parts	1,857	1,955	630	5.28%	53	10	63
279	Counter & Rental Clerks	4,174	5,471	3,110	31.07%	181	130	311
280	Stock Clerks, Sales Floor	7,318	8,044	1,830	9.92%	110	73	183
281	Cashiers	26,016	34,042	19,370	30.85%	1,134	803	1,937
282	Telemarketers, Door-To-Door Sales	4,738	8,063	4,550	70.18%	122	333	455
283	Demonstrators/Product Promoters	429	659	350	53.61%	12	23	35
284	Sales & Related Workers, NEC	3,809	5,221	2,580	37.07%	117	141	258
285	Administrative Support Occs, Clerical	188,065	236,577	87,310	25.80%	3,877	4,854	8,731
286	Administrative Support Supervisors	14,751	20,850	9,420	41.35%	332	610	942
287	Industry Specific Support Occs	31,807	41,378	16,740	30.09%	713	961	1,674
288	Bank, Security, Finance, Credit Workers	13,088	16,868	6,550	28.88%	276	379	655
289	Bank Tellers	4,208	4,403	2,010	4.63%	181	20	201
290	New Accounts Clerks, Banking	777	1,018	490	31.02%	25	24	49
291	Transit Clerks	110	107	30	-2.73%	3	0	3
292	Loan Interviewers	501	540	90	7.78%	5	4	9
293	Credit Authorizers	260	322	90	23.85%	3	6	9

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
294	Credit Checkers	555	657	140	18.38%	4	10	14
295	Loan & Credit Clerks	1,878	2,513	840	33.81%	20	64	84
296	Adjustment Clerks	4,281	6,678	2,680	55.99%	28	240	268
297	Statement Clerks	165	155	20	-6.06%	2	-1	2
298	Brokerage Clerks	353	475	170	34.56%	5	12	17
299	Selected Insurance Workers	3,335	4,474	1,660	34.15%	51	115	166
300	Insurance Adjusters/Examiners/Invstgtrs	1,020	1,458	610	42.94%	17	44	61
301	Insurance Appraisers, Auto Damage	74	103	40	39.19%	1	3	4
302	Insurance Examining Clerks	50	68	30	36.00%	1	2	3
303	Insurance Claims Clerks	961	1,320	520	37.36%	16	36	52
304	Insurance Policy Processing Clerks	1,230	1,525	460	23.98%	16	30	46
305	Investigative & Related Workers	3,402	4,678	2,110	37.51%	83	128	211
306	Welfare Eligibility Workers	1,037	1,004	220	-3.18%	22	-3	22
307	Investigators, Clerical	71	102	30	43.66%	0	3	3
308	Bill & Account Collectors	2,294	3,572	1,890	55.71%	61	128	189
309	Court, Municipal, License Clerks	567	683	210	20.46%	9	12	21
310	Court Clerks	254	309	100	21.65%	4	6	10
311	Municipal Clerks	82	100	30	21.95%	1	2	3
312	License Clerks	231	274	80	18.61%	4	4	8
313	Lodging & Travel Workers	5,390	6,236	2,310	15.70%	146	85	231
314	Travel Clerks	251	317	120	26.29%	5	7	12
315	Reservation & Transportation Tckt Agnts	3,229	3,739	1,190	15.79%	68	51	119
316	Hotel/Motel/Resort Desk Clerks	1,910	2,180	1,000	14.14%	73	27	100
317	Industry Specific Workers, NEC	6,025	8,439	3,900	40.07%	148	242	390
318	Library Assistants & Bookmobile Drivers	1,293	1,720	1,060	33.02%	63	43	106
319	Teacher Aides & Educational Assts	2,890	4,649	2,090	60.87%	33	176	209
320	Advertising Clerks	126	126	30	0.00%	3	0	3
321	Proofreaders & Copy Markers	345	332	110	-3.77%	11	-1	11
322	Real Estate Clerks	1,371	1,612	620	17.58%	38	24	62

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
323	General Office & Secretarial Workers	96,483	121,593	45,620	26.03%	2,051	2,511	4,562
324	Secretaries, Total	25,711	30,138	8,620	17.22%	420	442	862
325	Legal Secretaries	1,700	2,064	640	21.41%	28	36	64
326	Medical Secretaries	1,154	1,507	540	30.59%	19	35	54
327	Secretaries, Except Legal or Medical	22,857	26,567	7,440	16.23%	373	371	744
328	General Office Occupations	70,772	91,455	37,000	29.22%	1,631	2,069	3,700
329	Stenographers	561	771	300	37.43%	9	21	30
330	Receptionists & Information Clerks	12,745	19,040	8,740	49.39%	244	630	874
331	Typists, Incl Word Processing	2,743	2,735	530	-0.29%	53	-1	53
332	Human Resources Clerks, Ex Payroll/Time	1,590	1,625	340	2.20%	30	4	34
333	Correspondence Clerks	238	312	130	31.09%	6	7	13
334	File Clerks	1,670	2,221	1,130	32.99%	58	55	113
335	Order Clerks: Materials, Service	2,660	3,241	1,220	21.84%	64	58	122
336	Procurement Clerks	515	438	80	-14.95%	8	-8	8
337	Statistical Clerks	604	714	190	18.21%	8	11	19
338	Interview Clerks, Except Personnel	1,776	2,438	1,230	37.27%	57	66	123
339	Customer Service Representatives	2,617	3,284	1,300	25.49%	63	67	130
340	Bookkeeping, Accounting, Audit Clerks	14,250	16,349	4,760	14.73%	266	210	476
341	Payroll & Timekeeping Clerks	1,401	1,616	500	15.35%	28	22	50
342	Billing, Cost & Rate Clerks	2,720	3,712	1,530	36.47%	54	99	153
343	General Office Clerks	24,682	32,959	15,110	33.53%	683	828	1,511
344	Electronic Data Procsgng & Ofc Machn Wkrs	12,289	14,330	3,800	16.61%	177	203	380
345	Billing, Posting & Calculating Machn Oprs	636	757	250	19.03%	13	12	25
346	Duplicating Machine Operators	660	865	400	31.06%	19	21	40
347	Mail Machine Operators	646	769	310	19.04%	19	12	31
348	Computer Operators, Ex Peripheral	3,582	2,996	510	-16.36%	51	-59	51
349	Peripheral EDP Equipment Operators	365	258	50	-29.32%	5	-11	5
350	Data Entry Keyers, Ex Composing	5,156	7,419	2,650	43.89%	39	226	265
351	Data Entry Keyers, Composing	269	264	20	-1.86%	2	-1	2

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
352	Office Machine Operators, NEC	975	1,002	320	2.77%	29	3	32
353	Communication Equip Oprs, Mail Wrkrs	8,332	9,009	2,680	8.13%	201	67	268
354	Telephone Operators	2,570	2,331	560	-9.30%	56	-24	56
355	Switchboard Operators	1,556	1,589	370	2.12%	34	3	37
356	Directory Assistance Operators	459	291	100	-36.60%	10	-17	10
357	Central Office Operators	121	99	30	-18.18%	3	-2	3
358	Communication Equipment Oprs, NEC	418	338	90	-19.14%	9	-8	9
359	Mail & Message Distribution Workers	5,762	6,678	2,360	15.90%	145	91	236
360	Mail Clerks, Ex Mail Machine	1,263	1,543	580	22.17%	30	28	58
361	Postal Mail Carriers	2,989	3,239	1,090	8.36%	84	25	109
362	Postal Service Clerks	650	702	160	8.00%	11	5	16
363	Messengers	860	1,194	530	38.84%	20	33	53
364	Material Recordg/Schedulg/Distributg Occs	16,759	19,567	5,610	16.76%	280	281	561
365	Dispatchers: Police, Fire, & Ambulance	498	575	160	15.46%	8	8	16
366	Dispatchers, Ex Police, Fire & Ambulance	1,163	1,484	510	27.60%	19	32	51
367	Production, Planning & Expediting Clerks	1,615	1,947	520	20.56%	19	33	52
368	Transportation Agents	203	247	50	21.67%	1	4	5
369	Meter Readers, Utilities	321	358	120	11.53%	8	4	12
370	Weighers, Measurers, Checkers	97	105	30	8.25%	2	1	3
371	Marking Clerks	175	164	40	-6.29%	4	-1	4
372	Stock Clerks:Stockroom/Warehouse/Yard	5,287	6,174	1,690	16.78%	80	89	169
373	Order Fillers, Wholesale/Retail	914	1,096	400	19.91%	22	18	40
374	Traffic, Shipping & Receiving Clerks	5,435	6,124	1,590	12.68%	90	69	159
375	Material Recording Workers, NEC	1,051	1,293	510	23.03%	27	24	51
376	Clerical Occupations, NEC	7,644	9,850	3,440	28.86%	123	221	344
377	Service Occupations	153,599	210,131	105,270	36.80%	4,873	5,654	10,527
378	Service Workers Supervisors	7,229	9,743	4,260	34.78%	175	251	426
379	Fire Fighting & Prevention Supervisors	547	641	270	17.18%	18	9	27
380	Police & Detective Supervisors	647	740	280	14.37%	19	9	28

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
381	Institutional Cleaning Supervisors	905	1,134	440	25.30%	21	23	44
382	Service Supervisors, NEC	5,130	7,228	3,270	40.90%	117	210	327
383	Private Household Workers	3,506	4,395	1,910	25.36%	102	89	191
384	Cooks, Private Household	52	39	10	-25.00%	1	-1	1
385	Housekeepers & Butlers, Private	161	133	40	-17.39%	4	-3	4
386	Child Care Workers, Private	1,045	1,092	530	4.50%	48	5	53
387	Cleaners & Servants, Private	2,246	3,128	1,370	39.27%	49	88	137
388	Protective Service Occupations	17,237	24,798	12,570	43.86%	500	757	1,257
389	Fire Fighters	1,085	1,114	300	2.67%	27	3	30
390	Police Detectives	221	301	140	36.20%	6	8	14
391	Police Patrol Officers	2,386	3,361	1,620	40.86%	64	98	162
392	Correctional Officers	1,855	3,084	1,740	66.25%	51	123	174
393	Bailiffs	33	36	0	9.09%	0	0	0
394	Criminal Investigators, Federal	440	476	160	8.18%	12	4	16
395	Sheriffs & Deputy Sheriffs	854	1,251	480	46.49%	8	40	48
396	Detectives, Except Public	140	173	60	23.57%	3	3	6
397	Fish & Game Wardens	38	41	0	7.89%	0	0	0
398	Crossing Guards	199	230	90	15.58%	6	3	9
399	Guards	8,216	12,248	6,080	49.07%	205	403	608
400	Protective Service Workers, NEC	1,730	2,435	1,890	40.75%	118	71	189
401	Food & Beverage Preparation	63,038	81,381	46,830	29.10%	2,847	1,836	4,683
402	Hosts & Hostesses:Restaurant, Lounge	1,925	2,665	1,330	38.44%	59	74	133
403	Bartenders	1,744	2,037	1,040	16.80%	75	29	104
404	Waiters & Waitresses	15,403	20,132	13,210	30.70%	848	473	1,321
405	Food Servers	506	712	630	40.71%	42	21	63
406	Dining Room & Cafeteria Helpers	2,886	3,568	1,560	23.63%	88	68	156
407	Counter Attendants, Lunchroom	1,590	2,058	1,790	29.43%	132	47	179
408	Bakers, Bread & Pastry	1,101	1,435	620	30.34%	29	33	62
409	Butchers & Meatcutters, Retail	723	691	170	-4.43%	17	-3	17

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
410	Cooks, Restaurant	5,963	7,999	3,600	34.14%	156	204	360
411	Cooks, Institution or Cafeteria	2,006	2,632	1,150	31.21%	52	63	115
412	Cooks, Fast Food	6,308	8,483	3,830	34.48%	165	218	383
413	Cooks, Short Order	1,367	1,835	830	34.24%	36	47	83
414	Food Preparation Workers	7,964	10,013	6,440	25.73%	439	205	644
415	Combined Food Prep & Serv Workers	11,317	14,285	9,200	26.23%	623	297	920
416	Food Prep & Service Workers, NEC	2,235	2,836	1,460	26.89%	86	60	146
417	Health Service Occupations	15,856	27,140	13,940	71.17%	266	1,128	1,394
418	Dental Assistants	2,022	3,281	1,570	62.27%	31	126	157
419	Medical Assistants	1,594	2,924	1,720	83.44%	39	133	172
420	Nursing Aides & Orderlies	6,179	10,100	4,780	63.46%	86	392	478
421	Home Health Aides	3,061	6,576	3,950	114.83%	43	352	395
422	Psychiatric Aides	552	626	150	13.41%	8	7	15
423	Physical, Corrective Therapy Assistants	430	812	490	88.84%	11	38	49
424	Occupational Therapy Assistants	136	269	160	97.79%	3	13	16
425	Ambulance Drivers & Attendants, Ex EMT	279	420	210	50.54%	7	14	21
426	Pharmacy Assistants	370	478	200	29.19%	9	11	20
427	Health Service Workers, NEC	1,233	1,654	710	34.14%	29	42	71
428	Cleaning & Building Service Occupations	29,746	38,152	14,600	28.26%	619	841	1,460
429	Maids & Housekeeping Cleaners	8,563	10,986	4,010	28.30%	159	242	401
430	Janitors & Cleaners	18,915	24,300	9,500	28.47%	411	539	950
431	Pest Controllers & Assistants	885	1,216	530	37.40%	20	33	53
432	Cleaning/Bldg Serv Wrks, NEC	1,383	1,650	560	19.31%	29	27	56
433	Selected Personal Service Occs	14,604	21,305	9,660	45.88%	297	669	966
434	Barbers	84	68	20	-19.05%	2	-2	2
435	Hairdressers & Hairstylists	4,609	5,139	1,720	11.50%	119	53	172
436	Manicurists	278	359	150	29.14%	7	8	15
437	Shampooers	541	622	220	14.97%	14	8	22
438	Amusement & Recreation Attendants	1,645	2,778	1,430	68.88%	30	113	143

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
439	Guides	251	358	160	42.63%	5	11	16
440	Ushers, Lobby Attendants, & Ticket Tkrs	685	1,129	570	64.82%	13	44	57
441	Baggage Porters & Bellhops	231	267	80	15.58%	4	4	8
442	Flight Attendants	1,679	2,509	1,190	49.43%	36	83	119
443	Transportation Attendants	327	261	70	-20.18%	7	-7	7
444	Wardrobe & Dressing Room Attendants	51	91	50	78.43%	1	4	5
445	Personal & Home Care Aides	884	1,898	1,240	114.71%	23	101	124
446	Child Care Workers	3,173	5,645	2,780	77.91%	31	247	278
447	Funeral Attendants	166	181	70	9.04%	5	2	7
448	Service Occupations, NEC	2,383	3,217	1,500	35.00%	67	83	150
449	Agriculture, Forestry, & Fishing Occupations	16,752	19,867	7,680	18.59%	457	311	768
450	Farm Operators & Managers	1,284	1,434	340	11.68%	19	15	34
451	Farm Managers	552	538	90	-2.54%	9	-1	9
452	First Line Supervisors: Ag, Forest, Fish	625	808	270	29.28%	9	18	27
453	Supervisors, Farm Workers	106	87	10	-17.92%	1	-2	1
454	Forest & Logging Occupations	121	125	20	3.31%	2	0	2
456	Log Handling Equipment Operators	45	47	10	4.44%	1	0	1
457	Logging Tractor Operators	43	47	10	9.30%	1	0	1
459	Farm Occupations	1,395	1,161	430	-16.77%	43	-23	43
460	Other Agriculture & Forestry Occupations	13,949	17,144	7,120	22.90%	393	319	712
461	Gardening, Nursery, Lawn Occs	123	127	30	3.25%	3	0	3
462	Forest & Conservation Workers	92	87	20	-5.43%	2	-1	2
464	Graders & Sorters, Ag Products	80	93	30	16.25%	2	1	3
465	Animal Trainers	39	42	10	7.69%	1	0	1
466	Animal Caretakers, Ex Farm	1,052	1,333	430	26.71%	15	28	43
467	Farm Equipment Operators	1,396	1,238	430	-11.32%	43	-16	43
468	Pruners	309	406	190	31.39%	9	10	19
469	Sprayers & Applicators	170	214	90	25.88%	5	4	9
470	Laborers, Landscapers, & Groundskprs	8,148	10,816	5,100	32.74%	243	267	510

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
471	Veterinary Assistants	475	611	210	28.63%	7	14	21
472	Farm Workers, Food & Fiber Crops	26	32	20	23.08%	1	1	2
473	Farm Workers, Farm & Ranch Animals	160	206	100	28.75%	5	5	10
474	Agriculture, Forestry, Fishing Wkrs, NEC	1,858	1,917	630	3.18%	57	6	63
475	Precision Production, Craft & Repair Occs	87,894	105,203	38,250	19.69%	2,092	1,733	3,825
476	Production/Construction/Maintenance Sprvs	12,512	15,208	6,140	21.55%	345	269	614
477	First Line Supervisors: Mechanics & Rprs	3,640	4,290	1,730	17.86%	108	65	173
478	First Line Supervisors: Constrctn, Extrctn	3,631	4,375	1,710	20.49%	97	74	171
479	First Line Supervisors: Productn/Operatg	1,425	1,552	530	8.91%	40	13	53
480	First Line Supervisors: Transportation	1,179	1,480	600	25.53%	30	30	60
481	First Line Supervisors: Helpers, Laborers	839	1,013	390	20.74%	22	17	39
482	Construction & Rltd Supervisors, NEC	1,798	2,498	1,180	38.93%	48	70	118
483	Inspectors	2,454	2,813	900	14.63%	54	36	90
484	Inspectors, Testers, Graders, Precision	660	662	140	0.30%	14	0	14
485	Production Inspectors, Graders	1,096	1,201	360	9.58%	25	11	36
486	Transportation Inspectors	64	74	20	15.63%	1	1	2
487	Inspectors, Testers, NEC	634	876	380	38.17%	14	24	38
488	Mechanics, Installers, & Repairers	36,683	44,470	16,740	21.23%	891	783	1,674
489	Machinery: Mechanic, Installer, Repairer	10,733	12,750	4,450	18.79%	242	203	445
490	Industrial Machinery Mechanics	668	727	210	8.83%	15	6	21
493	Machinery Mechanics: Marine	209	187	50	-10.53%	5	-2	5
495	Machinery Mechanics: Water & Power	302	351	120	16.23%	7	5	12
496	Machinery Mechanics, NEC	148	144	30	-2.70%	3	0	3
497	Millwrights	303	367	140	21.12%	8	6	14
498	Machinery Maintenance Workers	336	381	130	13.39%	8	5	13
499	Maintenance Repairers, General Utility	8,755	10,584	3,790	20.89%	196	183	379
500	Vehicle & Mobile Equipment Mechanics	10,465	12,625	4,740	20.64%	258	216	474
501	Automotive Mechanics	5,275	6,487	2,520	22.98%	131	121	252
502	Automotive Body Repairers	1,393	1,680	700	20.60%	41	29	70

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
503	Motorcycle Repairers	64	77	30	20.31%	2	1	3
504	Bus, Truck, Diesel Engine Mechanics	1,575	1,846	620	17.21%	35	27	62
505	Mobile Heavy Equipment Mechanics	658	723	240	9.88%	17	7	24
506	Rail Car Repairers	56	62	20	10.71%	1	1	2
507	Farm Equipment Mechanics	152	152	40	0.00%	4	0	4
508	Aircraft Mechanics	994	1,235	440	24.25%	20	24	44
509	Small Engine Specialists	277	340	130	22.74%	7	6	13
510	Communications Equipment Mechanics	2,192	2,659	1,160	21.30%	68	48	116
511	Central Office & PBX Installers, Rprs	1,242	1,650	810	32.85%	40	41	81
512	Frame Wirers, Central Office	216	212	70	-1.85%	7	0	7
513	Telegraph & Teletype Installers, Rprs	115	114	40	-0.87%	4	0	4
515	Radio Mechanics	91	78	30	-14.29%	3	-1	3
516	Communications Equipmt Mechns, NEC	511	590	220	15.46%	14	8	22
517	Electric & Electronic Equipment Mechanics	6,362	7,939	3,340	24.79%	175	159	334
518	Telephone & Cable TV Installers, Rprs	2,177	3,072	1,610	41.11%	71	90	161
519	Data Processing Equipment Repairers	909	1,355	580	49.06%	13	45	58
520	Elec Home Entertainment Equip Rprs	308	308	90	0.00%	9	0	9
521	Elec Home Appliance & Power Tool Rprs	233	275	110	18.03%	7	4	11
522	Electric Motor, Transformer Repairers	109	98	30	-10.09%	3	-1	3
523	Electronics Rprs, Commrcl & Indstrl Eqp	743	898	370	20.86%	21	16	37
524	Power & Substation, Electricians	49	40	10	-18.37%	1	-1	1
525	Electric Powerline Intallers & Repairers	795	904	300	13.71%	19	11	30
526	Station Installers & Repairers, Telephone	547	352	180	-35.65%	18	-20	18
527	Electrical Installers & Repairers	68	78	30	14.71%	2	1	3
528	Electric & Electronic Equip Mechs, NEC	424	559	250	31.84%	11	14	25
529	Other Mechanics, Installers & Repairers	6,931	8,497	3,050	22.59%	148	157	305
530	Heat, A/C, Refrig Mechanics	2,083	2,597	890	24.68%	38	51	89
531	Precision Instrument Repairers	60	52	20	-13.33%	2	-1	2
532	Electromedical & Biomedical Equip Rprs	86	100	30	16.28%	2	1	3

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
533	Electric Meter Installers & Repairers	60	58	20	-3.33%	2	0	2
534	Musical Instrument Repairers/Tuners	47	53	20	12.77%	1	1	2
535	Locksmiths & Safe Repairers	131	148	50	12.98%	3	2	5
536	Office Machine & Cash Register Servicicers	714	823	260	15.27%	15	11	26
537	Mechanical Control Installers & Repairers	159	166	50	4.40%	4	1	5
538	Elevator Installers & Repairers	127	151	50	18.90%	3	2	5
539	Riggers	238	220	50	-7.56%	5	-2	5
540	Mobile Home Repairers	179	216	80	20.67%	4	4	8
541	Gas Appliance Repairers	36	38	10	5.56%	1	0	1
542	Coin & Vending Machine Servicicers	74	91	40	22.97%	2	2	4
543	Bicycle Repairers	30	42	20	40.00%	1	1	2
544	Tire Repairers & Changers	478	559	290	16.95%	21	8	29
545	Menders, Garments & Linens	27	28	10	3.70%	1	0	1
546	Mechanics, Installers, & Repairers, NEC	2,350	3,105	1,170	32.13%	41	76	117
547	Construction Trades & Extractive Occs	28,378	33,658	11,650	18.61%	636	529	1,165
548	Construction Trades Workers	6,784	7,898	2,810	16.42%	169	112	281
549	Carpenters	5,729	6,688	2,490	16.74%	153	96	249
550	Ceiling Tile Installers & Acoust Carptrs	127	144	50	13.39%	3	2	5
551	Drywall Installers	739	858	220	16.10%	10	12	22
552	Tapers	120	137	40	14.17%	2	2	4
553	Lathers	69	71	10	2.90%	1	0	1
554	Electrical Workers	5,219	6,378	2,230	22.21%	107	116	223
555	Masonry Workers	3,212	3,819	1,190	18.90%	58	61	119
556	Brick Masons	1,317	1,635	590	24.15%	27	32	59
557	Stone Masons	249	309	110	24.10%	5	6	11
558	Hard Tile Setters	90	93	20	3.33%	2	0	2
559	Concrete Fnshr/Cement Msn/Terrazzo Wkr	1,147	1,277	270	11.33%	14	13	27
560	Reinforcing Metal Workers	84	95	30	13.10%	2	1	3
561	Plasterers & Stucco Masons	325	410	170	26.15%	8	9	17

## ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
562	Painters, Paperhangers & Related Workers	2,868	3,476	1,340	21.20%	73	61	134
563	Plumbers & Related Workers	3,499	3,921	910	12.06%	49	42	91
564	Plumbers, Pipefitters, & Steamfitters	2,990	3,358	740	12.31%	37	37	74
565	Pipelaying Fitters	32	34	10	6.25%	1	0	1
566	Pipelayers	468	520	160	11.11%	11	5	16
567	Floor Related Workers	366	430	160	17.49%	9	7	16
568	Carpet Installers	131	148	50	12.98%	3	2	5
569	Floor Layers, Ex Carpet	177	215	90	21.47%	5	4	9
570	Floor Sanding Machine Operators	58	67	20	15.52%	1	1	2
571	Road, Rail, Construction & Maintenance	1,370	1,554	530	13.43%	34	19	53
572	Air Hammer Operators	63	72	20	14.29%	1	1	2
573	Paving, Surfacing, & Tamping Operators	648	753	280	16.20%	17	11	28
574	Highway Maintenance Workers	571	654	220	14.54%	14	8	22
575	Rail-Track Laying & Maint Equip Oprs	74	60	20	-18.92%	2	-1	2
576	Other Construction Trades Workerrs	3,952	4,658	1,810	17.86%	111	70	181
577	Insulation Workers	723	784	290	8.44%	23	6	29
578	Hazardous Materials Removal Wkrs	375	518	230	38.13%	9	14	23
579	Sheet Metal Duct Installers	388	531	240	36.86%	10	14	24
580	Roofers	843	958	410	13.64%	29	12	41
581	Glaziers	151	158	50	4.64%	4	1	5
582	Structural Metal Workers	390	453	160	16.15%	10	6	16
583	Fence Erectors	65	78	30	20.00%	2	1	3
584	Construction Trades Workers, NEC	1,017	1,178	400	15.83%	24	16	40
585	Extractive & Related Workers	1,108	1,524	670	37.55%	26	41	67
586	Earth Drillers, Ex Oil & Gas	87	100	30	14.94%	2	1	3
589	Continuous Mining Machine Operators	32	32	10	0.00%	1	0	1
591	Extraction Workers, Ex Helpers, NEC	44	38	10	-13.64%	1	-1	1
592	Construction & Extractive Workers, NEC	900	1,321	640	46.78%	22	42	64
593	Precision Production Occupations	7,867	9,054	2,820	15.09%	166	116	282

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
594	Metal Workers, Precision	3,163	3,735	1,250	18.08%	69	56	125
595	Tool & Die Makers	115	118	20	2.61%	2	0	2
596	Machinists	1,423	1,865	720	31.06%	28	44	72
597	Tool Grinders, Filers, & Sharpeners	94	94	20	0.00%	2	0	2
599	Shipfitters	141	111	30	-21.28%	3	-3	3
600	Jewelers & Silversmiths	157	159	40	1.27%	4	0	4
601	Sheet Metal Workers	970	1,112	380	14.64%	24	14	38
602	Boilermakers	173	169	40	-2.31%	4	0	4
603	Precision Metal Workers, NEC	36	43	20	19.44%	1	1	2
604	Woodworkers, Precision	1,032	1,179	300	14.24%	16	14	30
605	Pattern & Model Makers, Wood	31	30	10	-3.23%	1	0	1
606	Wood Machinists	87	90	10	3.45%	1	0	1
607	Cabinetmakers & Bench Carpenters	659	781	200	18.51%	8	12	20
608	Furniture Finishers	161	175	50	8.70%	4	1	5
609	Precision Woodworkers, NEC	88	97	30	10.23%	2	1	3
610	Textile, Apparel, Furnish Wkrs, Precision	865	866	170	0.12%	17	0	17
612	Custom Tailors & Sewers	202	177	40	-12.38%	4	-3	4
613	Upholsterers	185	178	40	-3.78%	4	-1	4
614	Shoe & Leather Workers, Precision	56	62	20	10.71%	1	1	2
615	Spotters, Dry Cleaning	138	150	40	8.70%	3	1	4
616	Pressers, Delicate Fabric	181	198	50	9.39%	3	2	5
618	Precision Textile Workers, NEC	94	94	20	0.00%	2	0	2
619	Printing Workers, Precision	1,001	1,011	190	1.00%	18	1	19
620	Compositors & Typesetters, Precision	66	39	10	-40.91%	1	-3	1
621	Job Printers	139	147	40	5.76%	3	1	4
622	Paste-up Workers	80	39	10	-51.25%	1	-4	1
623	Desktop Publishing Specialists	201	360	190	79.10%	3	16	19
624	Camera Operators	67	46	10	-31.34%	1	-2	1
625	Scanner Operators	51	50	10	-1.96%	1	0	1

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
626	Film Strippers, Printing	168	112	30	-33.33%	3	-6	3
627	Platemakers	108	104	20	-3.70%	2	0	2
628	Lithographic & Photengrvg Workers, NEC	37	37	10	0.00%	1	0	1
629	Bookbinders	38	35	10	-7.89%	1	0	1
630	Food Workers, Precision	288	304	80	5.56%	7	1	8
631	Slaughterers & Meat Packers	78	71	20	-8.97%	2	-1	2
632	Bakers, Manufacturing	134	148	30	10.45%	2	1	3
633	Food Batchmakers	53	57	20	7.55%	2	0	2
634	Precision Food & Tobacco Workers, NEC	23	28	20	21.74%	1	1	2
635	Other Precision Workers	1,518	1,959	830	29.05%	39	44	83
637	Molders & Shapers, Ex Jewelry/Foundry	39	44	20	12.82%	1	1	2
638	Photographic Process Wkrs, Precision	223	292	160	30.94%	9	7	16
639	Ophthalmic Laboratory Technicians	137	157	40	14.60%	2	2	4
640	Dental Lab Technicians, Precision	446	446	90	0.00%	9	0	9
641	Precision Workers, NEC	622	966	510	55.31%	17	34	51
642	Operators, Fabricators, & Laborers	97,750	122,968	49,240	25.80%	2,400	2,524	4,924
643	Machine Setters, Set-Up Opr/Tndrs	11,950	13,368	4,010	11.87%	259	142	401
644	Selected Machn Sttrs, Set-Up Oprs/Tndrs	285	269	70	-5.61%	7	-2	7
646	Lathe & Turning Machn Setters/Oprs, M/P	61	60	10	-1.64%	1	0	1
647	Drilling & Boring Machn Setters/Oprs, M/P	43	37	10	-13.95%	1	-1	1
648	Milling Machine Setters/Oprs, M/P	29	30	10	3.45%	1	0	1
649	Grinding Mach Setters/Oprs, M/P	54	54	10	0.00%	1	0	1
650	Machine Tool Cutting Oprs, M/P	75	64	20	-14.67%	2	-1	2
651	Machine Cut/Form Setters/Oprs, M/P	449	521	200	16.04%	12	8	20
652	Punching Machine Setters/Oprs, M/P	50	49	10	-2.00%	1	0	1
653	Press Machine Setters/Oprs, M/P	80	88	30	10.00%	2	1	3
654	Shear Machine Setters/Oprs, M/P	30	33	10	10.00%	1	0	1
655	Extruding & Drawing Setters/Oprs, M/P	62	67	30	8.06%	2	1	3
656	Rolling Machine Setters/Oprs, M/P	26	24	10	-7.69%	1	0	1

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
658	Machine Forming Operators, M/P	186	245	110	31.72%	5	6	11
659	Numerical & Combination Machn Sttrs/Oprs	216	271	90	25.46%	4	5	9
660	Numerical Control Machn Operators, M/P	107	137	50	28.04%	2	3	5
661	Combination Machine Tool Setters, M/P	58	72	20	24.14%	1	1	2
662	Combination Machn Tool Oprs/Tndrs, M/P	51	62	20	21.57%	1	1	2
663	Metal Fabricating Machn Setters/Oprs, M/P	300	339	90	13.00%	6	3	9
664	Welding Machine Setters/Set-Up Oprs	39	42	10	7.69%	1	0	1
665	Welding Machine Operators/Tenders	90	99	30	10.00%	2	1	3
667	Metal Fabricators, Structural Metal	155	179	50	15.48%	3	2	5
668	Metal & Plastic Process Machine Sttrs/Oprs	509	608	230	19.45%	13	10	23
669	Plastic Molding/Casting Machn Sttrs/Oprs	61	80	40	31.15%	2	2	4
670	Plastic Molding/Casting Machn Oprs/Tndrs	208	262	100	25.96%	5	5	10
672	Metal Mold/Core/Cast Machine Oprs/Tndrs	62	71	30	14.52%	2	1	3
674	Electrolytic Plate/Coat Machn Sttrs/Oprs, M/P	35	41	20	17.14%	1	1	2
675	Electrolytic Plate/Coat Machn Oprs, M/P	70	81	30	15.71%	2	1	3
678	Other Metal & Plastic Setters/Oprs/Tndrs	243	261	80	7.41%	6	2	8
679	Metal & Plastic Setters/Oprs, NEC	98	97	20	-1.02%	2	0	2
680	Metal & Plastic Oprs/Tndrs, NEC	145	164	60	13.10%	4	2	6
681	Woodworking Machine Setters/Oprs/Tndrs	560	582	180	3.93%	16	2	18
682	Sawing Machine Setters/Set-Up Oprs	26	25	10	-3.85%	1	0	1
683	Head Sawyer	40	41	10	2.50%	1	0	1
684	Sawing Machine Operators/Tenders	298	318	110	6.71%	9	2	11
685	Woodworking Machn Setters, Ex Sawing	79	79	20	0.00%	2	0	2
686	Woodwrkng Machn Oprs/Tndrs, Ex Sawing	117	119	30	1.71%	3	0	3
687	Printing, Binding, & Related Occs	2,427	2,448	510	0.87%	49	2	51
688	Print Press Machine Setters	43	47	10	9.30%	1	0	1
689	Offset Lithographic Press Oprs	454	401	100	-11.67%	10	-5	10
690	Letterpress Operators	79	63	20	-20.25%	2	-2	2
691	Printing Press Setters/Oprs, NEC	67	63	10	-5.97%	1	0	1

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
693	Screen Printing Machine Setters/Oprs	91	97	30	6.59%	2	1	3
694	Bindery Machine Setters/Oprs	186	208	50	11.83%	3	2	5
695	Printing Setters/Oprs, NEC	41	42	10	2.44%	1	0	1
696	Typesetting & Composing Machine Oprs	97	40	20	-58.76%	2	-6	2
697	Printing Press Machine Oprs/Tndrs	783	857	240	9.45%	17	7	24
698	Photoengraving & Lithographic Oprs/Tndrs	43	34	10	-20.93%	1	-1	1
699	Bindery Machine Operators	426	482	130	13.15%	7	6	13
700	Printing, Binding, & Related Workers, NEC	95	93	20	-2.11%	2	0	2
701	Textile & Related Setters/Oprs/Wkrs	2,427	2,753	830	13.43%	50	33	83
703	Textile Machine Oprs/Tndrs	92	148	80	60.87%	2	6	8
707	Sewing Machine Oprs, Garment	403	373	60	-7.44%	6	-3	6
708	Sewing Machine Oprs, Non-Garment	200	208	40	4.00%	3	1	4
709	Laundry & Drycleaning Machine Oprs	1,251	1,511	570	20.78%	31	26	57
710	Pressing Machine Oprs/Tndrs, Textiles	456	488	110	7.02%	8	3	11
711	Other Machine Setters/Oprs,Tndrs	4,534	5,316	1,750	17.25%	96	79	175
712	Electronic Semiconductor Processors	312	461	200	47.76%	5	15	20
713	Motion Picture Projectionists	63	65	10	3.17%	1	0	1
714	Photographic Process Machine Oprs	328	321	130	-2.13%	13	-1	13
716	Paper Goods Machine Setters/Oprs	100	95	20	-5.00%	2	-1	2
719	Furnace, Kiln, Oven, Drier or Kettle Oprs	32	30	10	-6.25%	1	0	1
720	Boiler Operators & Tenders, Low Pressure	43	39	10	-9.30%	1	0	1
723	Chemical Equipment Controllers/Oprs	111	111	30	0.00%	3	0	3
725	Cutting & Slicing Machine Setters/Oprs	41	42	10	2.44%	1	0	1
726	Cutting & Slicing Machine Oprs/Tndrs	122	132	40	8.20%	3	1	4
727	Painters, Transportation Equipment	159	186	60	16.98%	3	3	6
728	Coat/Paint/Spray Machine Setters/Oprs	59	65	20	10.17%	1	1	2
729	Coat/Paint/Spray Machine Oprs/Tndrs	115	127	40	10.43%	3	1	4
730	Cement & Gluing Machine Oprs/Tndrs	46	40	10	-13.04%	1	-1	1
731	Cleaning/Washing/Pickling Eq Oprs/Tndrs	25	26	10	4.00%	1	0	1

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
732	Separating & Still Machn Sttrs/Oprs/Tndrs	31	31	10	0.00%	1	0	1
733	Crushing/Grinding/Mixg Machn Oprs/Tndrs	279	281	70	0.72%	7	0	7
734	Extrud/Form/Press Machine Setters/Oprs	43	41	10	-4.65%	1	0	1
735	Extrud/Form/Press Machine Oprs/Tndrs	109	118	40	8.26%	3	1	4
736	Packaging & Filling Machine Oprs/Tndrs	698	818	300	17.19%	18	12	30
737	Machine Setters/Setup Oprs, NEC	378	487	170	28.84%	6	11	17
738	Machine Operators/Tenders, NEC	1,378	1,745	570	26.63%	20	37	57
739	Handworking Occupations, Incl Assemblers	9,952	12,950	5,170	30.12%	216	301	517
740	Assemblers, Precision	1,201	1,279	350	6.49%	26	9	35
741	Machine Builder Assemblers, Precision	139	137	30	-1.44%	3	0	3
742	Fitters, Structural Metal, Precision	47	43	10	-8.51%	1	0	1
743	Electromechanical Equipment Assmblrs	140	149	40	6.43%	3	1	4
744	Electrical/Electronic Equip Assmblrs, Prec	737	793	220	7.60%	16	6	22
745	Precision Assemblers, Metral, NEC	123	140	50	13.82%	3	2	5
746	Other Hand Workers & Assemblers	8,751	11,671	4,820	33.37%	190	292	482
747	Machine Assemblers	94	103	30	9.57%	2	1	3
748	Electrical & Electronic Assemblers	1,264	1,446	410	14.40%	23	18	41
749	Coil Winders, Tapers & Finishers	51	62	20	21.57%	1	1	2
751	Welders & Cutters	1,358	1,587	570	16.86%	34	23	57
752	Solderers & Brazers	279	485	270	73.84%	6	21	27
755	Cutters & Trimmers, Hand	35	38	10	8.57%	1	0	1
758	Meat, Poultry & Fish Cutters, Hand	88	106	40	20.45%	2	2	4
760	Molders & Casters, Hand	29	30	10	3.45%	1	0	1
761	Painting, Coating & Decoratg Wkrs, Hand	49	53	10	8.16%	1	0	1
762	Engraving & Printing Wkrs, Hand	121	220	130	81.82%	3	10	13
763	Grinders & Polishers, Hand	90	96	30	6.67%	2	1	3
764	Assemblers & Fabricators, NEC	2,935	3,738	1,320	27.36%	52	80	132
765	Hand Workers, NEC	2,294	3,643	1,970	58.81%	62	135	197
766	Plant & System Occupations	2,114	2,538	960	20.06%	54	42	96

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
767	Water & Waste Treatment Plant Oprs	1,170	1,436	540	22.74%	27	27	54
770	Power Generating Plant Oprs	88	92	30	4.55%	3	0	3
772	Power Distributors & Dispatchers	72	66	20	-8.33%	2	-1	2
773	Stationary Engineers	199	189	40	-5.03%	4	-1	4
774	Plant & System Oprs, NEC	485	665	340	37.11%	16	18	34
775	Transportation & Material Mvng Machn Oprs	39,427	49,269	16,800	24.96%	694	986	1,680
776	Motor Vehicle Operators	27,898	35,516	11,980	27.31%	436	762	1,198
777	Truck Drivers, Heavy	8,663	10,396	2,970	20.00%	124	173	297
778	Truck Drivers, Light	10,357	14,107	5,240	36.21%	149	375	524
779	Bus Drivers, Transit/Intercity	1,261	1,603	570	27.12%	23	34	57
780	Bus Drivers, School	4,082	5,371	2,020	31.58%	73	129	202
781	Taxi Drivers & Chauffeurs	653	888	350	35.99%	11	24	35
782	Drivers & Sales Workers	2,314	2,653	800	14.65%	46	34	80
783	Motor Vehicle Operators, NEC	568	498	100	-12.32%	10	-7	10
784	Rail Transportation Workers	377	333	140	-11.67%	14	-5	14
785	Railroad Conductors & Yardmasters	104	94	40	-9.62%	4	-1	4
786	Locomotive Engineers	134	136	50	1.49%	5	0	5
788	Subway & Streetcar Oprs	59	61	20	3.39%	2	0	2
789	Railroad Brake, Signal & Switch Oprs	55	26	20	-52.73%	2	-3	2
790	Water Transportation Occs	1,042	905	390	-13.15%	39	-14	39
791	Captains, Water Vesse ls	51	52	20	1.96%	2	0	2
792	Mates: Ship, Boat & Barge	127	115	50	-9.45%	5	-1	5
793	Seamen, Able	356	310	140	-12.92%	14	-5	14
794	Seamen, Ordinary & Maine Oilers	219	194	80	-11.42%	8	-3	8
795	Ship Engineers	268	214	100	-20.15%	10	-5	10
796	Pilot, Flight Engineer Occs	2,184	2,610	910	19.51%	48	43	91
797	Other Transportation Workers	2,512	3,163	1,360	25.92%	70	66	136
798	Service Station Attendants	1,008	1,248	680	23.81%	44	24	68
799	Parking Lot Attendants	519	694	270	33.72%	9	18	27

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
800	Transportation Workers, NEC	983	1,219	410	24.01%	17	24	41
801	Material Moving Equipment Operators	5,414	6,742	2,210	24.53%	87	134	221
802	Longshore Equipment Operators	25	23	0	-8.00%	0	0	0
803	Excavation & Loading Machine Operators	941	1,176	420	24.97%	18	24	42
806	Grader, Dozer & Scraper Operators	670	767	150	14.48%	5	10	15
808	Crane & Tower Operators	223	235	60	5.38%	5	1	6
809	Industrial Truck & Tractor Operators	1,470	1,908	610	29.80%	17	44	61
810	Conveyor Operators/Tenders	87	101	30	16.09%	2	1	3
811	Pump Operators	45	50	20	11.11%	1	1	2
812	Operating Engineers	675	780	230	15.56%	12	11	23
813	Material Moving Equipment Oprs, NEC	537	690	270	28.49%	12	15	27
814	Transportation & Mtrl Mvng Eqp Oprs, NEC	671	951	430	41.73%	15	28	43
815	Hand Labor & Material Moving Helpers	34,307	44,843	22,300	30.71%	1,177	1,053	2,230
816	Helpers: Mechanics & Repairers	1,192	1,495	840	25.42%	54	30	84
817	Helpers: Construction Trades	6,733	7,583	3,960	12.62%	312	84	396
818	Helpers: Brick & Stone Masons	1,061	1,218	650	14.80%	49	16	65
819	Helpers: Carpenters & Related	1,741	2,030	1,090	16.60%	80	29	109
820	Helpers: Electricians & Related	1,425	1,399	660	-1.82%	66	-3	66
821	Helpers: Painters & Paperhangers	316	367	200	16.14%	15	5	20
822	Helpers: Plumbers & Related	1,033	1,177	620	13.94%	48	14	62
823	Helpers: Roofers	317	397	230	25.24%	15	8	23
824	Construction Trades Helpers, NEC	780	931	510	19.36%	36	15	51
825	Helpers: Extractive Workers	60	64	30	6.67%	3	0	3
826	Machine Feeders & Offbearers	467	477	150	2.14%	14	1	15
827	Freight, Stock & Material Movers, Hand	4,431	5,403	2,610	21.94%	164	97	261
828	Stevedores, Ex Equipment Operators	29	30	10	3.45%	1	0	1
829	Refuse/Recyclable Material Collectors	479	516	230	7.72%	19	4	23
830	Freight, Stock & Mtrl Mvrs, Hand, NEC	3,923	4,857	2,370	23.81%	144	93	237
831	Other Helpers, Laborers & Movers	21,484	29,885	14,740	39.10%	633	841	1,474

**ESTIMATED 1998 AND PROJECTED 2008 OCCUPATIONAL EMPLOYMENT AND ANNUAL AVERAGE JOB OPENINGS**

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

LINE	OCCUPATIONAL TITLE	EMPLOYMENT		CHANGE		ANNUAL OPENINGS 1998-2008		
		Estimated 1998	Projected 2008	Number	Percent	Replacements	Growth	Total
832	Hand Packers & Packagers	5,304	8,813	4,820	66.16%	131	351	482
833	Cleaners of Vechicles/Equipment	1,708	2,423	1,260	41.86%	54	72	126
834	Helpers, Laborers & Movers, NEC	14,472	18,649	8,660	28.86%	448	418	866

## OCCUPATIONS DELETED DUE TO 1998 AND 2008 EMPLOYMENT LEVELS

OF LESS THAN 25 IN THE MSA OR 100 STATEWIDE

Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008

OCCUPATION	OCCUPATION	OCCUPATION
Agricultural Engineers	Gas Compressor Operators	Patternmakers & Layout Wkrs, Fbrc/Aprl
Agricultural Sciences Teachers, Pstscndry	Gas Plant Operators	Patternmakers & Model Makers
Agriculture Related Occupations	Gaugers	Petroleum Engineers
Aircraft Engine Specialists	Geography Teachers, Postsecondary	Petroleum Pump System Oprs
Aircraft Structural Assemblers, Precision	Glaziers, Manufacturing	Petroleum Refinery Operators
Animal Breeders	Hand Workers, Jewelry, Precision	Photoengravers
Announcers, NEC	Heat Treating Machine Oprs/Tndrs	Pile Driving Equipment Operators
Auxiliary Equipment Oprs, Power	Heaters, Metal & Plastic	Portable Machine Cutters
Blasters & Explosive Workers	Heating Equipment Setters/Oprs, M/P	Precision Printing Workers, NEC
Bridge, Lock & Lighthouse Tenders	Hoist & Winch Operators	Pressers, Hand
Camera & Photographic Equipment Rprs	Instrument Makers, Precision	Programmers: Numerical Tool & Prcss Cntrl
Cannery Workers	Judges & Magistrates	Radio Operators
Carpet Cutters, Diagramers, Seamers	Launders & Ironers, Private	Rail Transportation Operators, NEC
Chemical Equipment Tenders	Layout Workers, Metal, Precision	Rail Yard Engineeers, Dinkey Oprs
Chemical Plant & System Oprs	Library Science Teachers, Postsecondary	Railroad & Transit Police
Choke Setters	Loading Machine Operators, Mining	Refractory Material Repairers
Claims Takers, Unemployment Benefits	Locomotive Firers	Roasting & Drying Oprs/Tndrs, Fd/Tbcco
Cooking Machine Oprs, Food & Tobacco	Log Graders & Scalers	Rock Splitters, Quarry
Cooling & Freezing Equipment Oprs/Tndrs	Machinery Mechanics: Sewing	Roof Bolters, Mining
Corrective & Manual Arts Therapists	Machinery Mechanics: Textile	Rotary Drill Operators, Oil/Gas
Dairy Processing Equipment Oprs/Setters	Mathematical Technicians	Roustabouts, Oil/Gas
Derrick Operators, Oil/Gas	Medical Appliance Makers	Sawing Machine Tool Setters/Oprs, M/P
Detail Design Decorators & Painters	Metal Mold/Core/Cast Machine Sttrs/Oprs	Septic Tank Servicers, Sewer Pipe Clnrs
Dragline Operators	Metal Pourers & Casters, Basic Shape	Service Unit Operators, Oil/Gas/Mine
Dredge Operators & Dipper Tenders	Mine Machinery Mechanics	Sewers, Hand
Dyers, Precision	Mining & Related Managers	Ship Pilots
Etchers & Engravers, Precision	Mining Engineers, Incl Safety	Shoe Sewing Machine Oprs/Tndrs
Fallers & Buckers	Mining Machine Operators, NEC	Shuttle Car Operators
Farmers	Models	Signal & Track Switch Maintainers
Fire Inspectors	Motorboat Operators	Social Work Teachers, Postsecondary
Fishers	Nonelectrolytic Plate/Coat Oprs, M/P	Soldering & Brazing Machine Oprs/Tndrs
Fishing, Hunting, & Trapping Occupations	Nuclear Techns/Technols	Soldering & Brazing Machine Setters/Oprs
Forest Fire Inspectors & Prevention	Nursery & Greenhouse Mgrs	Specialty Material Printing Machine Sttrs
Forging Machine Setters/Oprs, M/P	Oil Pumpers, Ex Wellhead	Supervisors, Related Agric Occs
Foundry Mold & Core Makers	Parking Enforcement Officers	Tank Car & Truck Loaders
Foundry Mold Assembly & Shakeout Wkrs	Pattern & Model Makers, Metal	Telegraph/Teletype Operators
Furnace Operators & Tenders	Pattern Markers, Wood	Textile Bleach & Dye Machine Oprs/Tndrs

**OCCUPATIONS DELETED DUE TO 1998 AND 2008 EMPLOYMENT LEVELS**

**OF LESS THAN 25 IN THE MSA OR 100 STATEWIDE**

**Washington DC-MD-VA-WV PMSA (Virginia Portion) 1998 - 2008**

<b>OCCUPATION</b>	<b>OCCUPATION</b>	<b>OCCUPATION</b>
Textile Machine Setters/Oprs Timber Cutting Workers, NEC	Watch & Chlock Assemblers, Prec Watchmakers	Wellhead Pumpers