

# Health Care Personnel Shortage Task Force Annual Report

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## Attachment A:

### Health Professions Education in Washington Completions 2003-2008



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**Workforce Training and Education Coordinating Board**  
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### **INTRODUCTION**

This report documents completions of postsecondary health career educational programs throughout Washington. Each page summarizes program completions for one of 35 selected health education programs. The term “completion” as used in this report encompasses graduation from degree programs as well as completion of a course of study leading to a non-degree credential. This report covers the periods from 2002-2003 through 2007-2008. Trend data include absolute numbers of program completions by gender, population-adjusted completion rates, and completions by race/ethnicity. Throughout the report, each academic year, beginning in July and ending in June, is referred to by the calendar year in which the academic year ended.

### **DATA SOURCES**

Data for this report come from the Integrated Postsecondary Education Data system (IPEDS) of the National Center for Education Statistics for 2003 through 2008. IPEDS is a systematic survey of educational organizations whose primary purpose is to provide postsecondary education. IPEDS does not collect data from organizations that are not primarily educational in nature; for example, hospitals that offer nursing diploma programs. For this reason, the numbers of health career program completers may be underestimated for some professions, such as nurse aides. View more information about IPEDS at <http://nces.ed.gov/ipeds/>.

Some educational organizations did not report or under-reported data to IPEDS in prior years. In instances where this was known, data was obtained from the Washington State Board for Community and Technical Colleges to supplement completions in the affected programs.

State population data are from the Washington State Office of Financial Management Population Estimates for 2008.

Gender: IPEDS provides complete counts by gender, calculating for missing data.

Race and Ethnicity: Completions reported by IPEDS categorize completers into one of the following racial/ethnic designations:

- White, non-Hispanic
- Hispanic or Latino
- Black, non-Hispanic
- Asian or Pacific Islander
- American Indian or Alaskan Native
- Nonresident alien
- Unknown

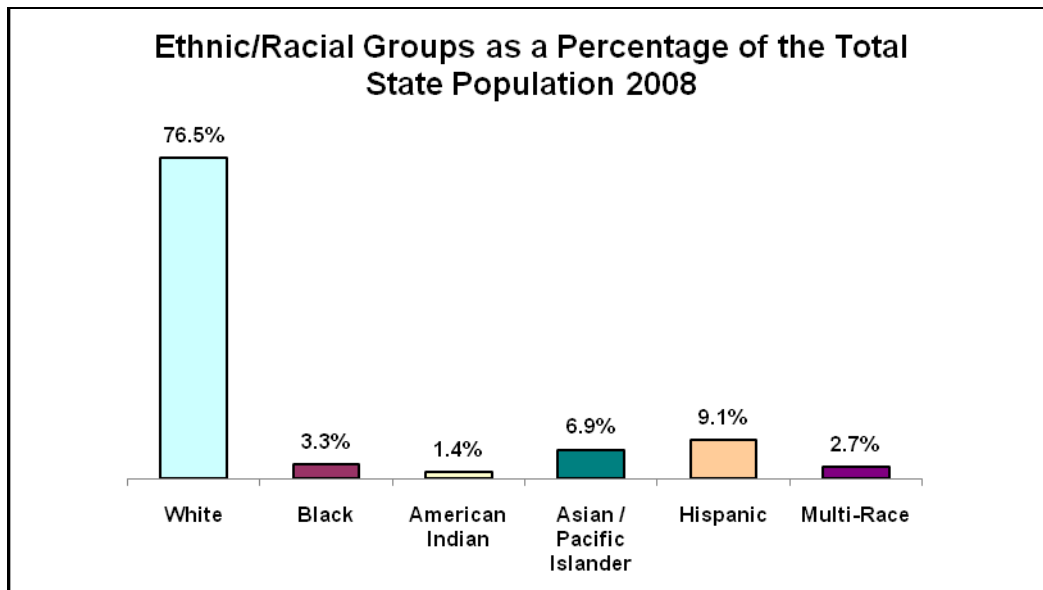
For the purpose of charting data the ethnic groups are designated as White, Black, Hispanic, Asian and American Indian.

## 2003-2008 Completion Statistics

Some racial/ethnic data were missing from the data sets. Completions in this report by race and ethnicity are based on percentages for those completers whose race and ethnicity were known (excluding from the denominator those completers whose racial/ethnic data were missing or non-resident aliens).

### Limitations of the Data

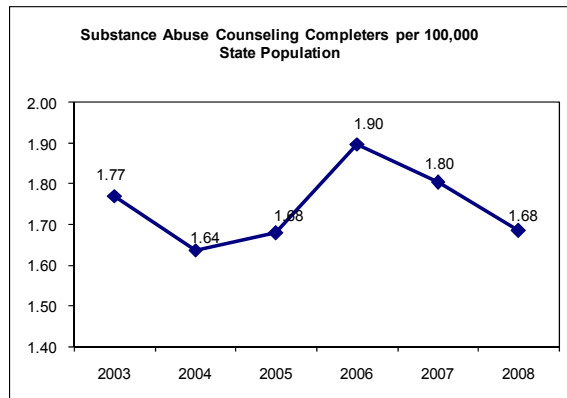
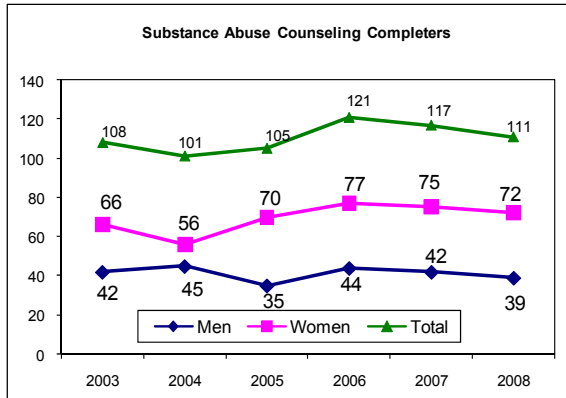
The data in this report are subject to the following conditions. IPEDS attempts to conduct a complete census of all postsecondary educational organizations. Coverage is thought to be high, with response rates above 90 percent. Yearly verification is performed using accreditation lists, but it is not known how many institutions are missing. Although IPEDS imputes<sup>1</sup> for non-responses, the extent of the undercount for missing institutions, non-responses, and specific health occupations where training is available outside of education institutions is unknown.



<sup>1</sup> Imputation is a statistical estimate substituted in place of missing data.

## 2003-2008 Completion Statistics

### Substance Abuse/Addiction Counseling Program Completers (CIP 51.1501)

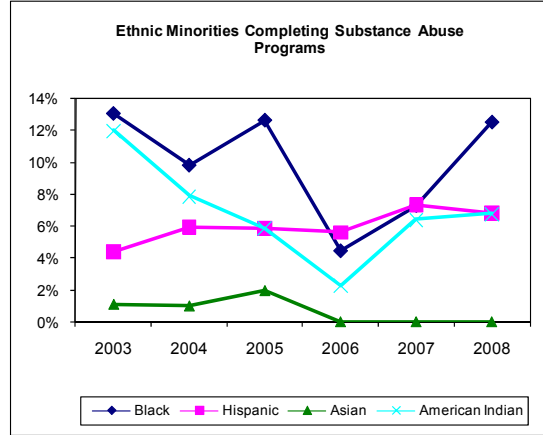
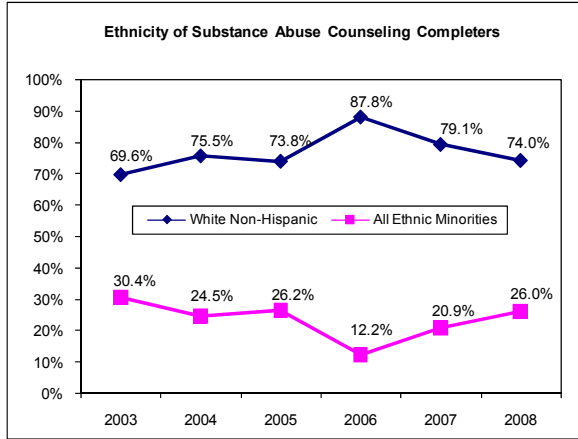


- Sixteen community and technical colleges offered substance abuse/addiction counseling programs in 2008 compared to 13 in 2003.
- There are several types of substance abuse/addiction counseling programs in Washington. The number of program completions from 2003-2008 by type are as follows:

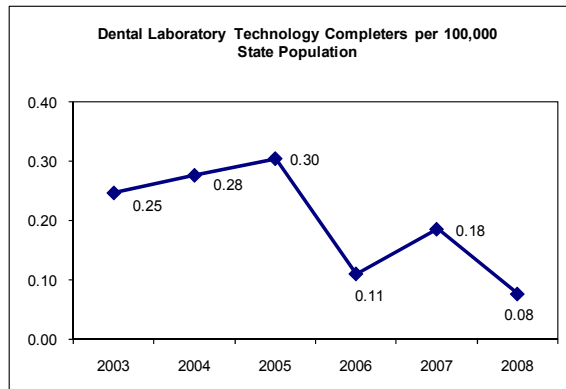
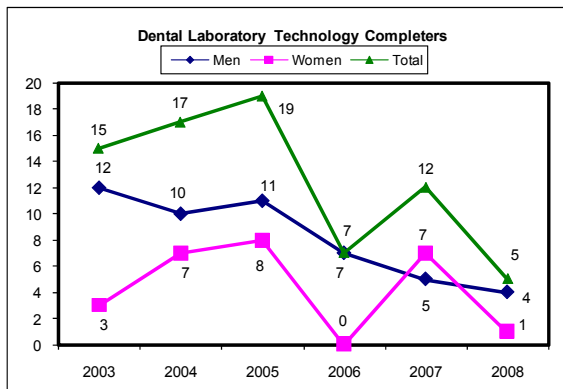
Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Less than two years	55	50	50	63	68	54
Associate	51	51	55	58	49	57
Baccalaureate	1	0	0	0	0	0
2 to 4 years	1	0	0	0	0	0

- Total annual program completions increased by 2.8 percent from 2003 to 2008.
- Completions per 100,000 population decreased by 4.9 percent over the same time period.
- 64.9 percent of program completers were female in 2008 compared to 61.1 percent in 2003.

## 2003-2008 Completion Statistics



**Dental Laboratory Technology/Technician Program Completers (CIP 51.0603)**

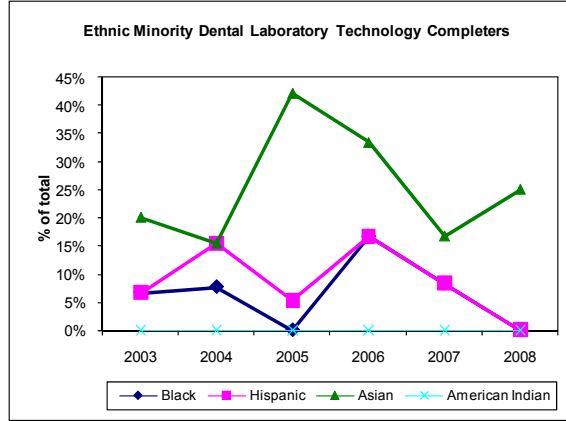
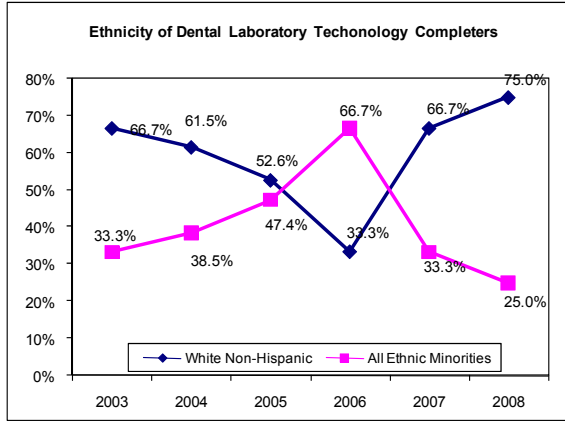


- One technical college offered a Dental Laboratory Technology/Technician program in 2008, the same as in 2003.
- The number of program completions from 2003-2008 are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Less than two years	2	5	4	1	3	1
Associate	3	2	6	3	3	3
2 to 4 years	10	10	9	3	6	1

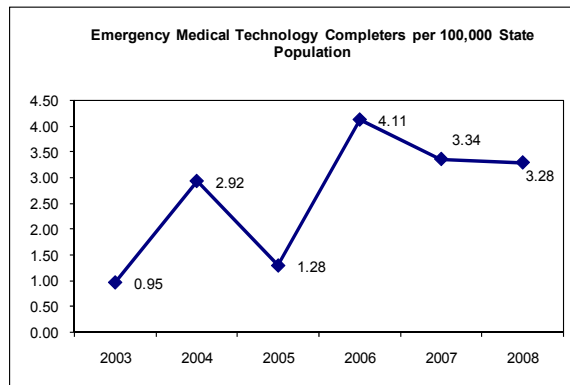
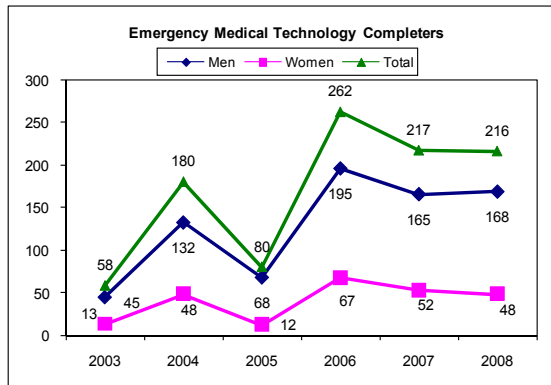
- Total annual program completions decreased by 66.7 percent from 2003 to 2008, however with the number of completions per year being low, a small variance in any one year can give a false impression of the significance of the percent of change. By using the 2007 program completion numbers there was only a 20 percent decrease in program completions between 2003 and 2007.
- Completions per 100,000 population decreased by 69.1 percent from 2003 to 2008 though they decreased by 25 percent from 2003 to 2007.
- 20 percent of program completers were female in 2008 the same as in 2003.

## 2003-2008 Completion Statistics





**Emergency Medical Technology/Technician Program Completers (CIP 51.0904)**

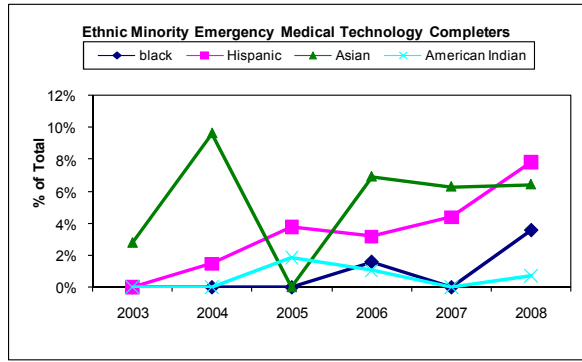
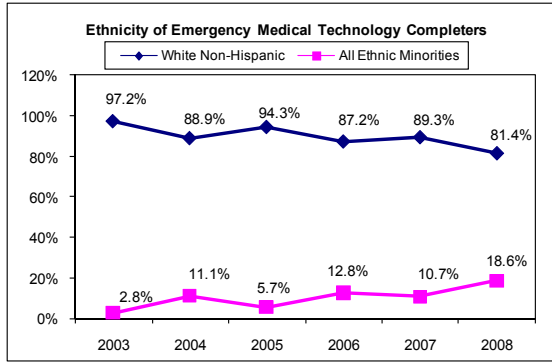


- Eight community and technical colleges in the state offered Emergency Medical Technology programs in 2008, compared to four in 2003.
- There are several types of Emergency Medical Technology/Technician Programs in Washington. The number of program completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions					
	2003*	2004*	2005	2006	2007	2008
Less than two years	47	181	63	246	194	197
Associate	8	6	9	10	9	8
Baccalaureate	7	10	8	6	14	11

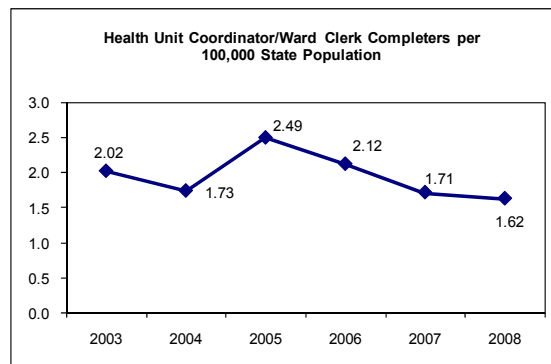
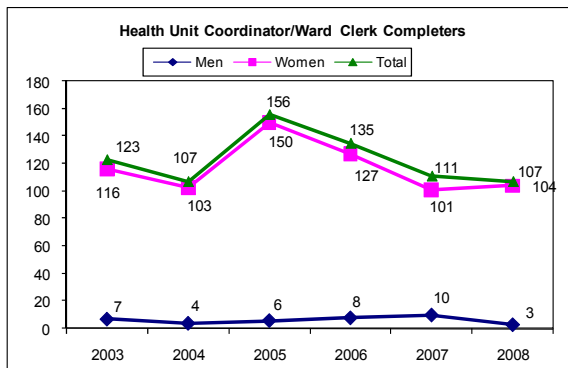
- Total annual program completions increased by 20 percent from 2004 to 2008. The number for 2003 was excluded because it was low and would give a false impression of the significance of the percent of change. Although the completions varied widely from year to year the overall trend shows there is a steady increase.
- Completions per 100,000 population increased by 12.4 percent over the same time period.
- 22.2 percent of program completers were female in 2008 compared to 26.7 percent in 2004.

## 2003-2008 Completion Statistics



\* 2003 and 2004, IPEDS completion data was supplemented with data from the State Board for Community and Technical Colleges (SBCTC).

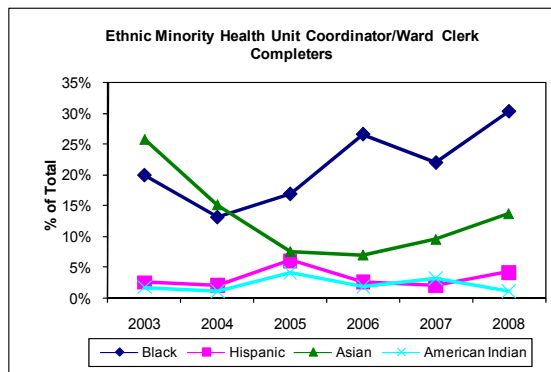
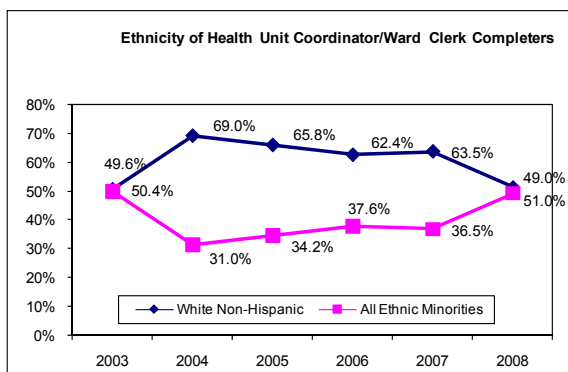
### Health Unit Coordinator/Ward Clerk Program Completers (CIP 51.0703)



- Five community and technical colleges offered Health Unit Coordinator/Ward Clerk programs in 2008, compared to three in 2003.
- There are two types of Health Unit Coordinator/Ward Clerk Programs in Washington. The number of program completions from 2003-2008 by type are as follows:

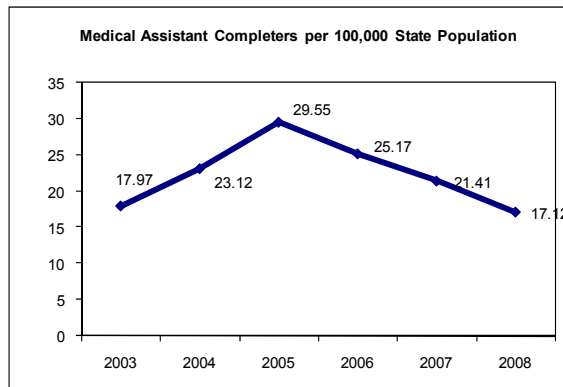
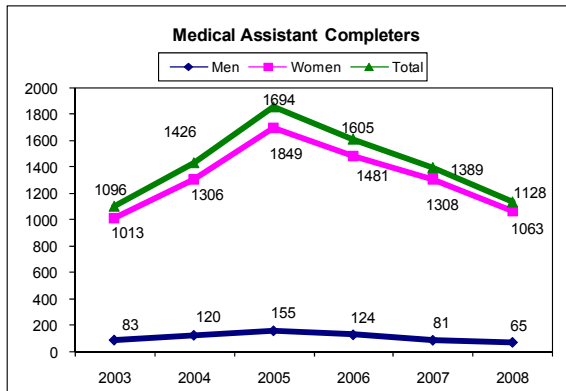
Type of Program	Number of Program Completions					
	2003*	2004	2005	2006	2007	2008
Less than two years	123	101	148	135	110	106
Associate	1	6	8	0	1	1

- Total annual program completions decreased by 13 percent from 2003 to 2008.
- Completions per 100,000 population decreased by 19.5 percent over the same time period.
- 97.2 percent of program completers were female in 2008 compared to 94.3 percent in 2003.



\* 2003, IPEDS completion data was supplemented with data from SBCTC.

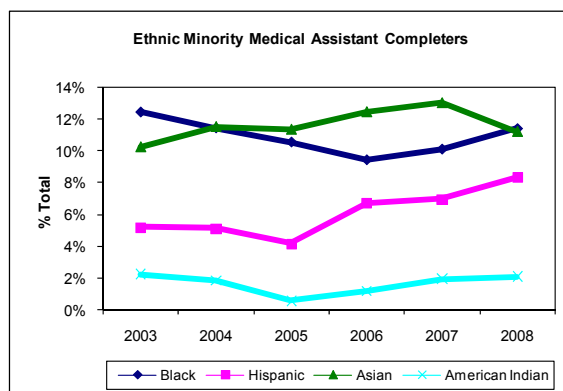
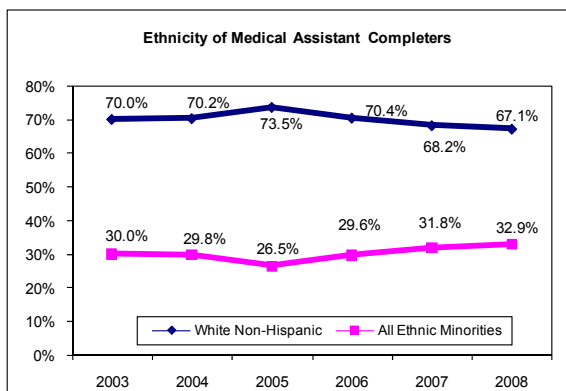
### Medical/Clinical Assistant (CIP 51.0801)



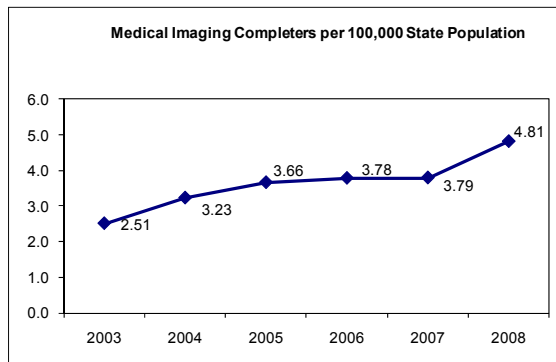
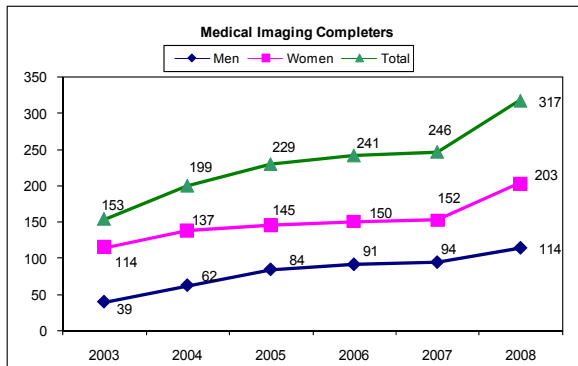
- Some 27 community and technical colleges and college branches in the state offered Medical/Clinical Assistant programs in 2008, compared to 25 in 2003.
- There are three types of Medical/Clinical Assistant Programs in Washington. The number of program completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Less than two years	984	1261	1690	1422	1228	968
Associate	95	164	155	174	149	157
2 to 4 years	17	1	4	9	12	3

- Total annual program completions increased by 2.9 percent between 2003 and 2008, though in 2005 there was a spike of completions resulting in a 69 percent increase over 2003.
- Completions per 100,000 population decreased by 4.7 percent over the same time period.
- 94.2 percent of program completers were female in 2008 compared to 92.4 percent in 2003.



**Medical Imaging (Radiology) (CIPs 51.0905, 0907, 0910 and 0911)**

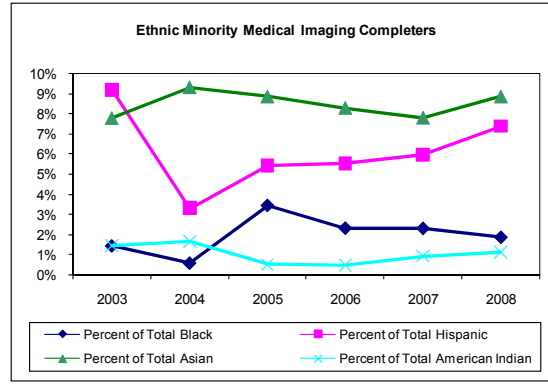
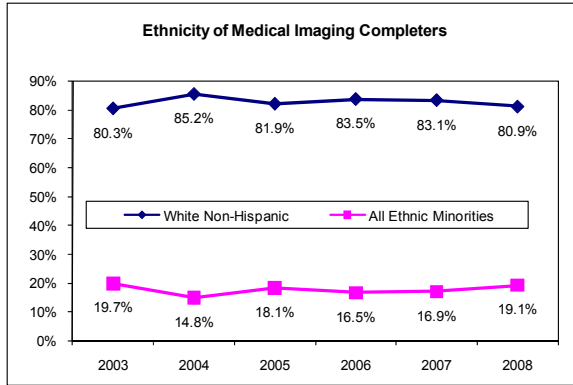


- Ten community and technical colleges and one university in the state offered Medical Imaging (Radiology) courses in 2008, compared to six community and technical colleges and one university in 2003. The courses include: Nuclear Medical Technology/Technologist; Medical Radiologic Technology/Science - Radiation Therapist; Diagnostic Medical Sonography/Sonographer & Ultrasound Technician; and Radiologic Technology/Science - Radiographer.
- The number of program completions from 2003-2008 by type are as follows:

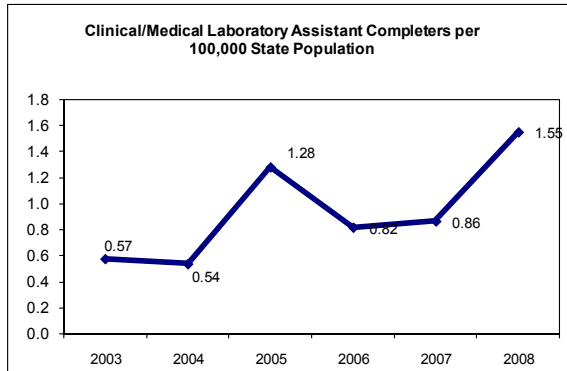
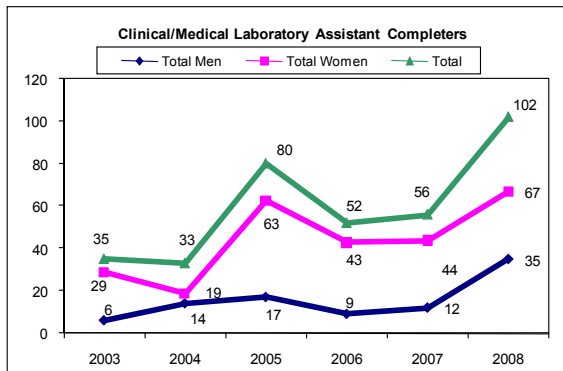
Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Less than two years	10	13	8	14	13	12
Associate	123	167	206	209	207	285
Baccalaureate	20	19	15	18	23	20

- Total annual program completions more than doubled, increasing by 107.2 percent between 2003 and 2008.
- Completions per 100,000 population increased by 91.8 percent over the same time period.
- 64 percent of program completers were female in 2008 compared to 74.5 percent in 2003.

## 2003-2008 Completion Statistics



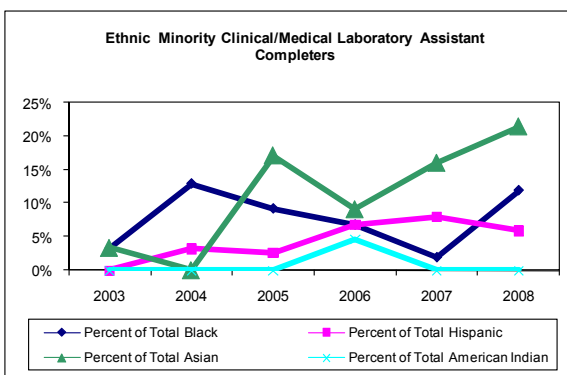
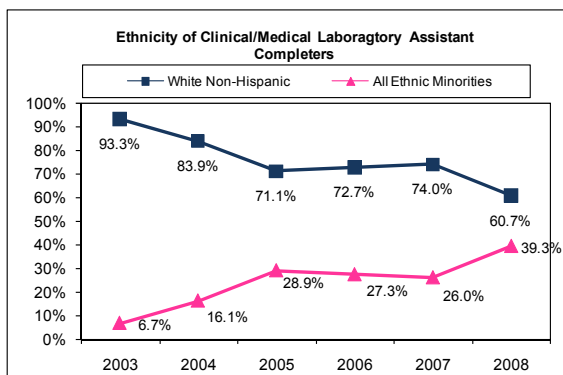
Medical/Clinical Laboratory Assistant (CIP 51.0802)



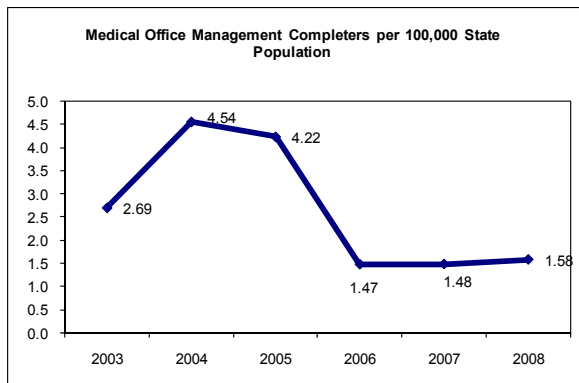
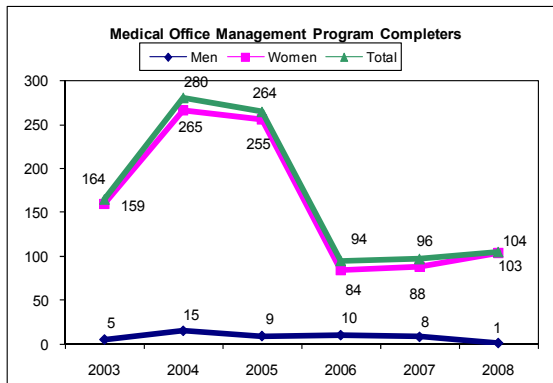
- Eight community and technical colleges offered Clinical/Medical Laboratory Assistant programs in 2008, compared to seven in 2003.
- There are three types of Medical/Clinical Laboratory Assistant Programs in Washington. The number of program completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Less than two years	11	3	37	16	17	50
Associate	24	30	43	36	39	51
2 to 4 years	0	0	0	0	0	1

- Total annual program completions almost tripled, increasing by 191 percent between 2003 and 2008.
- Completions per 100,000 population increased by 169.8 percent over the same time period.
- 65.7 percent of program completers were female in 2008 compared to 45.3 percent in 2003.



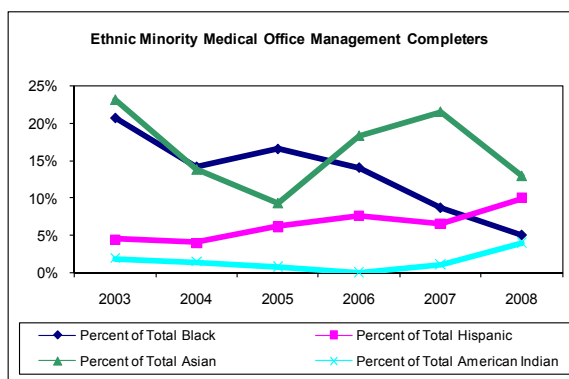
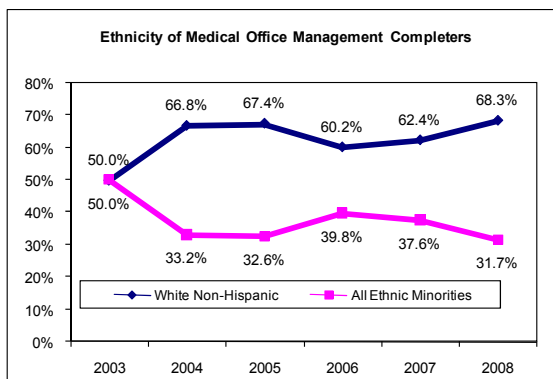
Medical Office Management Administration (CIP 51.0705)



- Five community and technical colleges in the state offered Medical Office Management Administration programs in 2008, the same as in 2003.
- There are two types of Medical Office Management Administration Programs in Washington. The number of program completions from 2003-2008 by type are as follows:

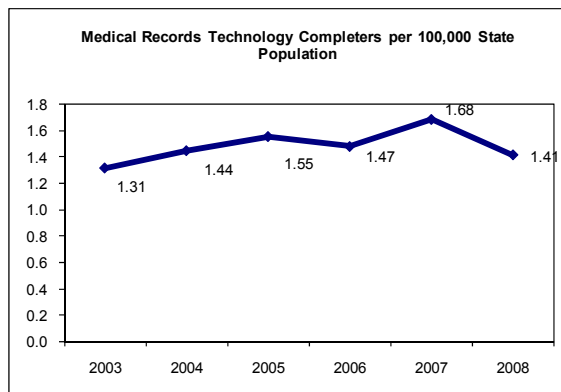
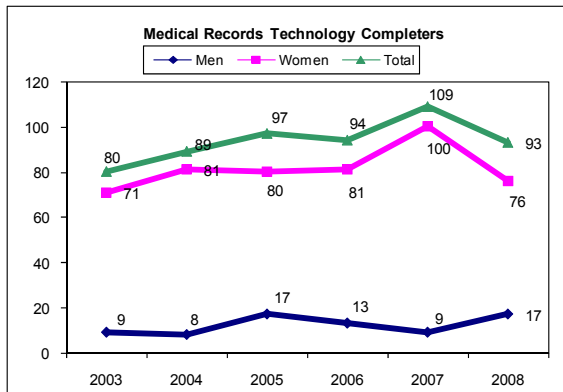
Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Less than two years	161	276	259	93	95	98
Associate	3	4	5	1	1	6

- Total annual program completions decreased by 36.6 percent between 2003 and 2008.
- Completions per 100,000 population decreased by 41.3 percent from 2003 to 2008.
- 99 percent of program completers were female in 2008 compared to 97 percent in 2003.





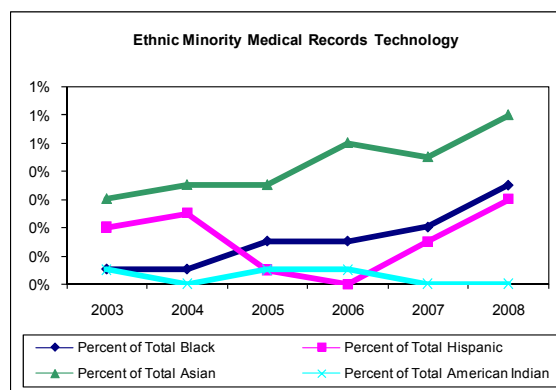
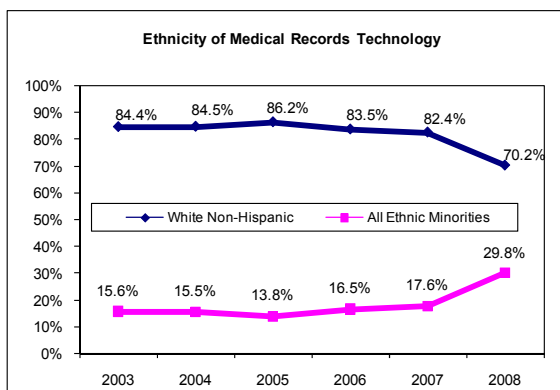
### Medical Records Technology/Technician (CIP 51.0707)



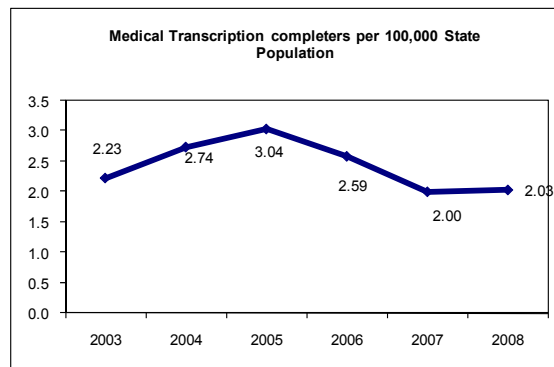
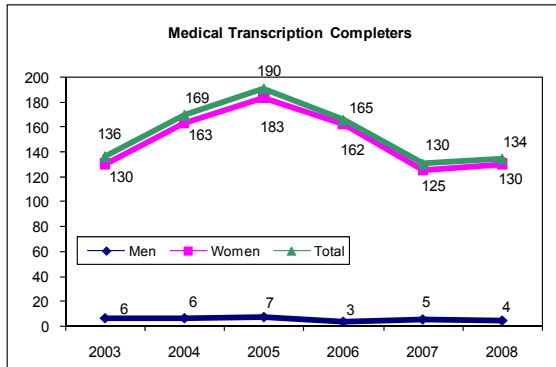
- Ten community and technical colleges offered Medical Records Technology/Technician programs in 2008, compared to seven in 2003.
- There are two types of Medical Records Technology/Technician Programs in Washington. The number of program completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Less than two years	48	37	44	47	55	40
Associate	32	52	53	47	54	53

- Total annual program completions increased by 16.3 percent between 2003 and 2008.
- Completions per 100,000 population increased by 7.6 percent over the same time period.
- 81.7 percent of program completers were female in 2008 compared to 88.8 percent in 2003.



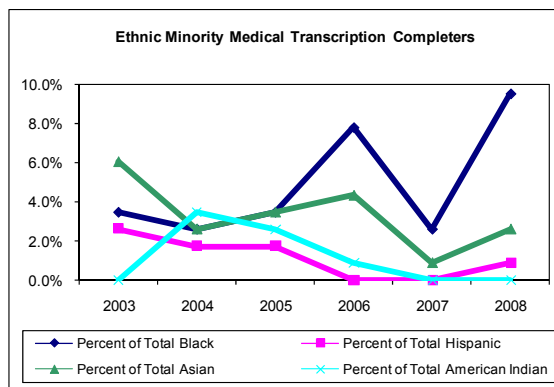
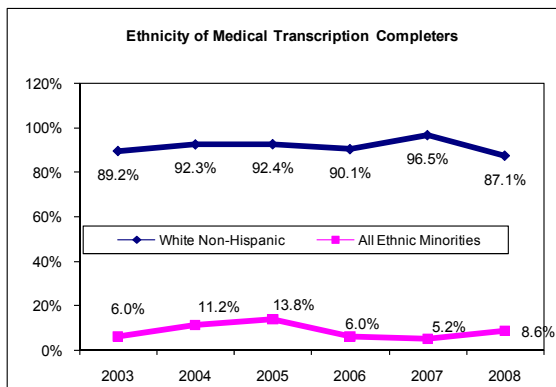
### Medical Transcription (CIP 51.0708)



- Thirteen community and technical colleges offered Medical Transcription programs in 2008, compared to 17 in 2003.
- There are two types of Medical Transcription Programs in Washington. The number of program completions from 2003-2008 by type are as follows:

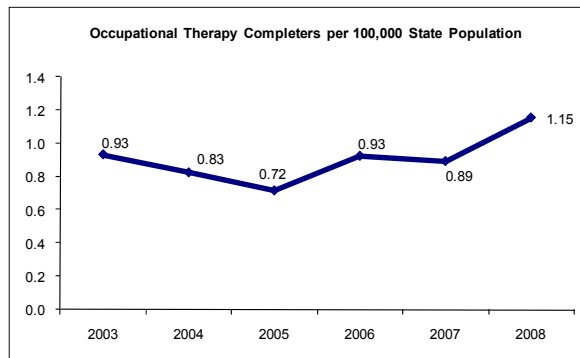
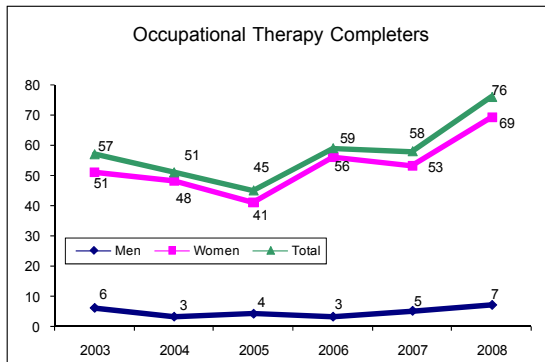
Type of Program	Number of Program Completions*					
	2003	2004	2005	2006	2007	2008
Less than two years	136	171	193	165	131	134
Associate	1	0	1	0	0	2

- Total annual program completions decreased by 0.7 percent between 2003 and 2008.
- Completions per 100,000 population decreased by 8.8 percent over the same time period.
- 97 percent of program completers were female in 2008 compared to 95.6 percent in 2003



\* IPEDS completion data was supplemented with data from SBCTC for all six years.

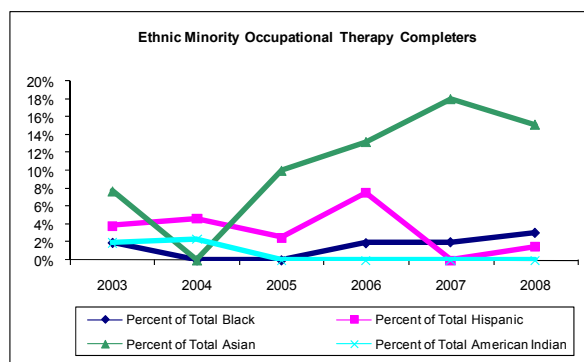
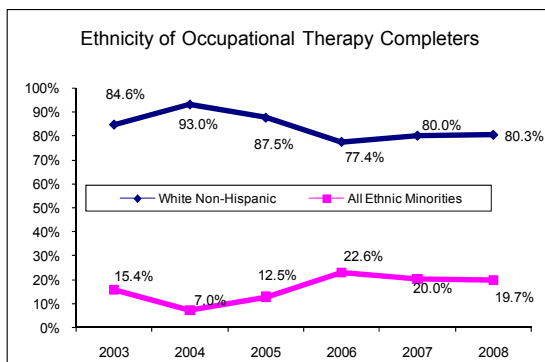
### Occupational Therapy (CIP 51.2306)



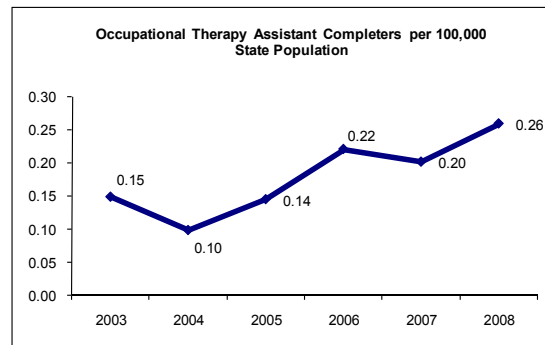
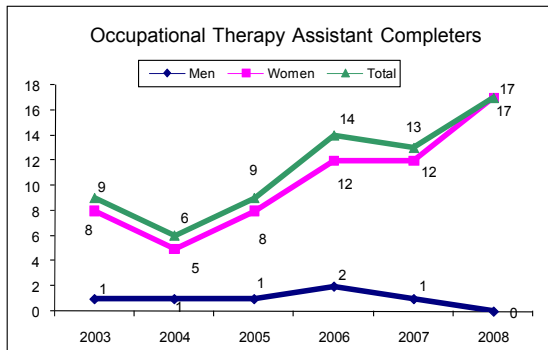
- Three universities in the state offered Occupational Therapy programs in 2008, the same as in 2003.
- There are two types of Occupational Therapy Programs in Washington. The number of program completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Baccalaureate	23	21	14	16	15	1
Master's	34	30	31	43	43	75

- Total annual program completions increases by 33.3 percent between 2003 and 2008.
- Completions per 100,000 population increases by 23.4 percent over the same time period.
- 90.8 percent of program completers were female in 2008 compared to 89.5 percent in 2003.



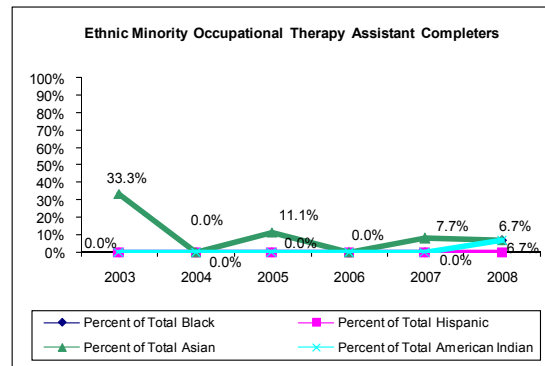
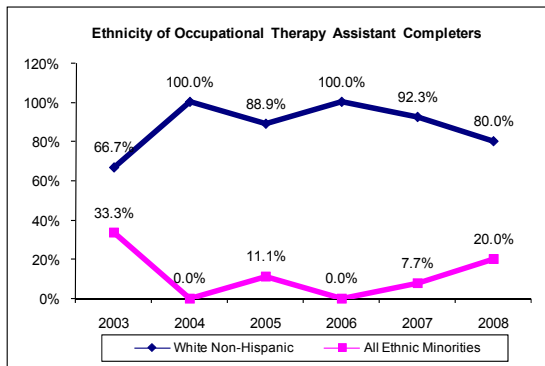
### Occupational Therapy Assistant (CIP 51.0803)



- One community college in the state offered an Occupational Therapy Assistant program in 2008, the same as in 2003.
- There is one type of Occupational Therapy Assistant Program in Washington. The number of program completions from 2003-2008 by type are as follows:

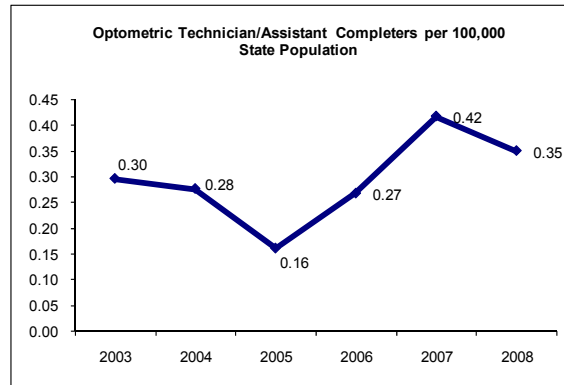
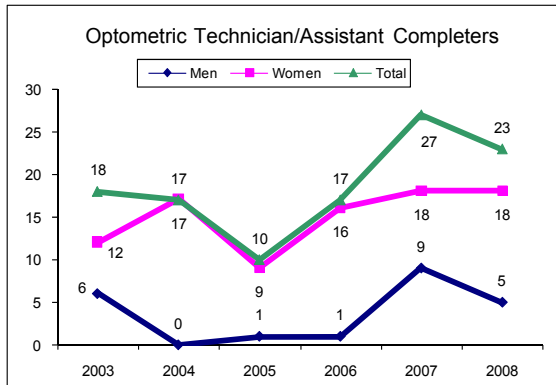
Type of Program	Number of Program Completions					
	2003*	2004	2005	2006	2007	2008
Associate	9	6	9	14	13	17

- Total annual program completions increased by 88.9 percent from 9 to 17 between 2003 and 2008. However, with the number of completions per year being low, a small variance in any one year can give a false impression of the significance of the percent of change.
- Completions per 100,000 population increased by 74.9 percent over the same time period.
- 100 percent of program completers were female in 2008 compared to 88.9 percent in 2003



\* 2003 IPEDS completion data was supplemented with data from SBCTC.

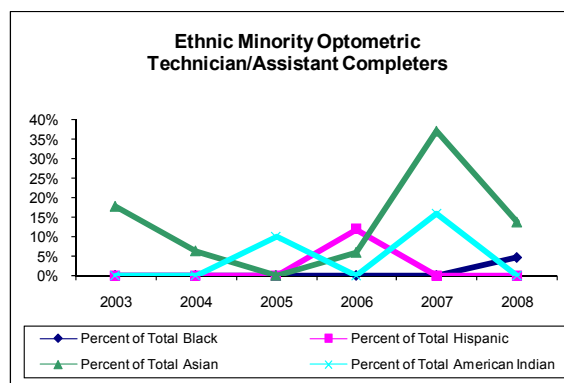
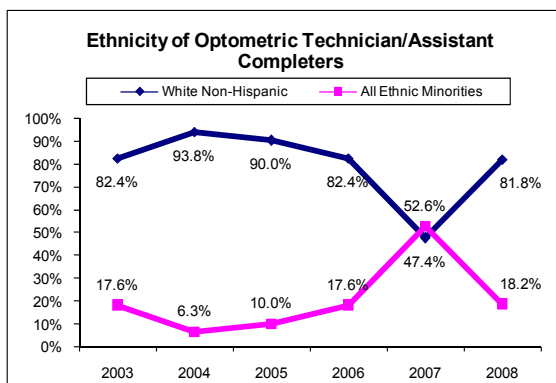
### Optometric Technician Assistant (CIP 51.1802)



- Two community and technical colleges offered an Optometric Technician Assistant program in 2008, compared to one in 2003.
- There are two types of Optometric Technician Programs in Washington. The number of program completions from 2003-2008 by type are as follows:

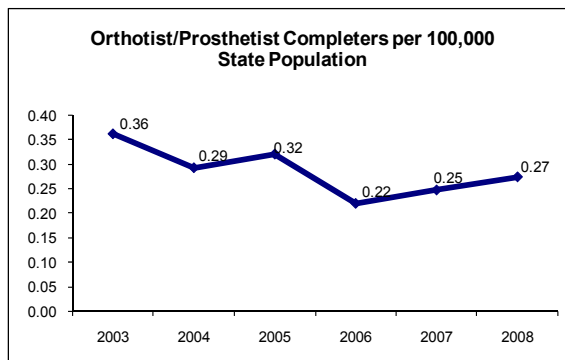
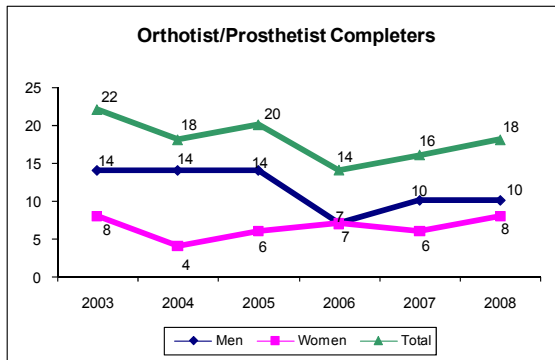
Type of Program	Number of Program Completions					
	2003*	2004	2005	2006	2007	2008*
Less than two years	13	9	8	9	21	16
Associate	5	8	2	8	6	8

- Total annual program completions increased by 33.3 percent between 2003 and 2008.
- Completions per 100,000 increased 18.3 percent over the same period.
- 78.3 percent of program completers were female in 2008 compared to 66.6 percent in 2003.
- With the number of completions per year being low, a small variance in any one year can give a false impression of the significance of change.



\* 2003 and 2008, IPEDS completion data was supplemented with data from SBCTC.

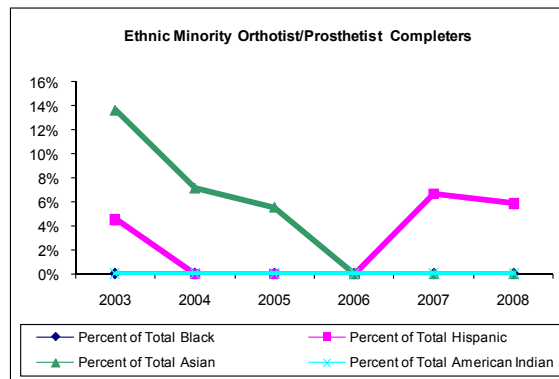
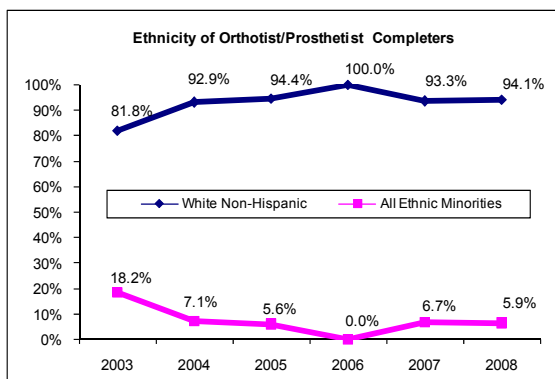
Orthotist/Prosthetist (CIP 51.2307)



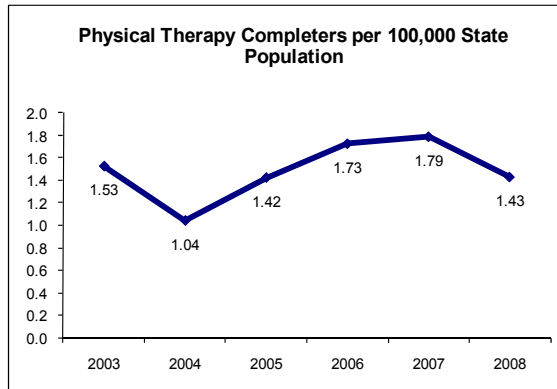
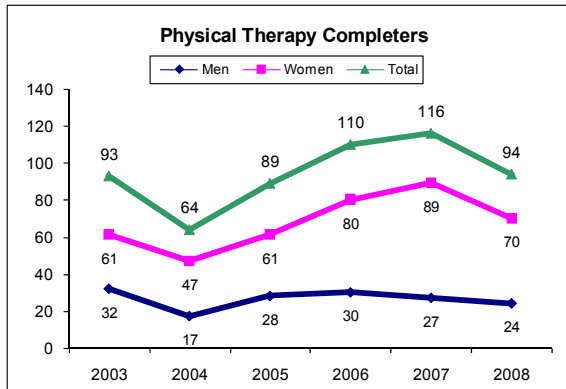
- One community college and one state university offered an Orthotist/Prosthetist program in 2008, the same as in 2003.
- There are three types of Orthotist/Prosthetist Programs in Washington. The number of program completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Less than two years	2	1	0	0	0	1
Associate	7	8	8	5	6	6
Baccalaureate	13	9	12	9	10	11

- Total annual program completions decreased by 18.2 percent between 2003 and 2008. However, the number of completers is small (22 in 2003 and 18 in 2008).
- Completions per 100,000 decreased by 24.3 percent from 2003 to 2008.
- 44.4 percent of program completers were female in 2008 compared to 36.4 percent in 2003.
- With the number of completions per year being low, a small variance in any one year can give a false impression of the significance of the percent of change



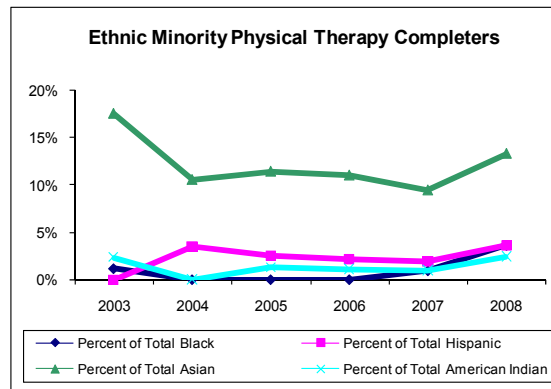
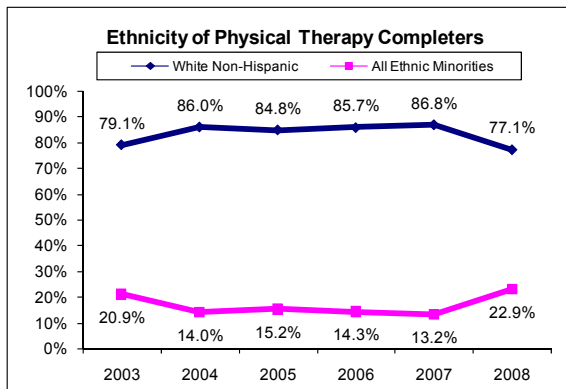
Physical Therapy (CIP 51.2308)



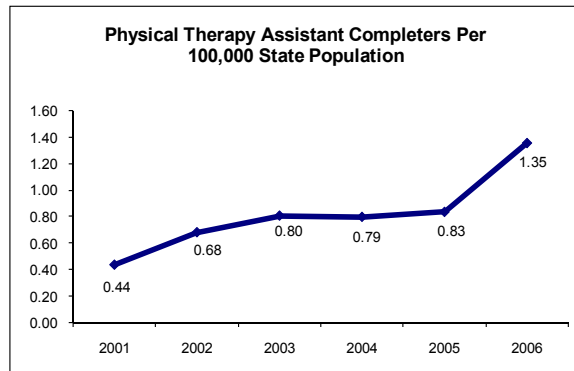
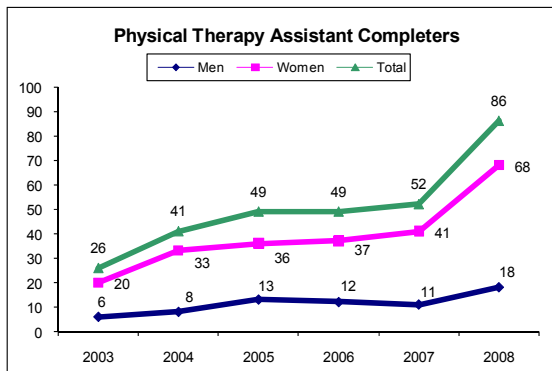
- Three universities in the state offered Physical Therapy programs in 2008, the same as in 2003.
- There are two types of Physical Therapy Programs in Washington. The number of program completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Master's	93	64	42	46	53	0
Doctoral	0	0	47	64	63	94

- Total annual program completions increased by 1.1 percent between 2003 and 2008.
- Completions per 100,000 population decreased by 6.4 percent from 2003 to 2008.
- 74.5 percent of program completers were female in 2008 compared to 65.6 percent in 2003.



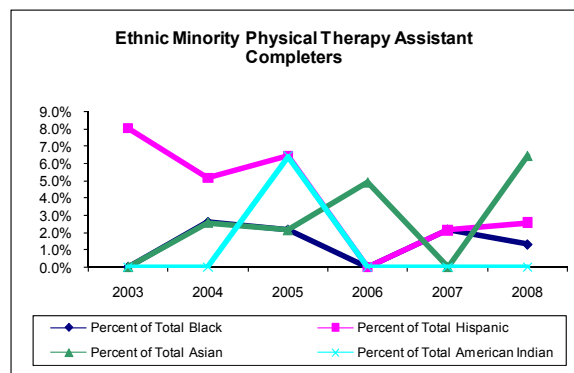
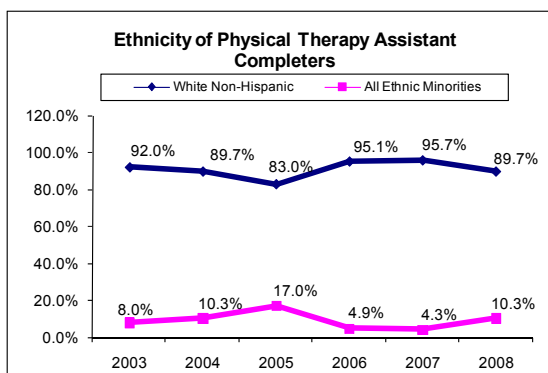
### Physical Therapy Assistant (CIP 51.0806)



- Five community colleges in the state offered Physical Therapy Assistant programs in 2008, compared to three in 2003.
- There is one type of Physical Therapy Assistant Program in Washington. The number of program completions from 2003-2008 by type are as follows:

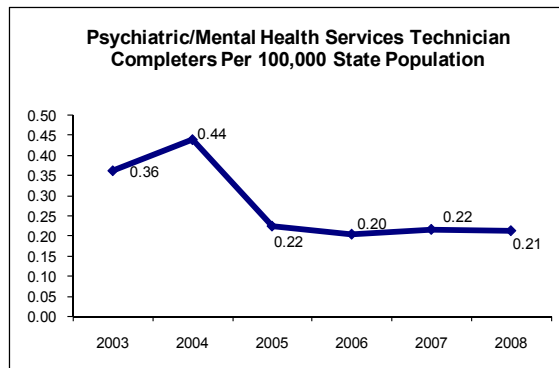
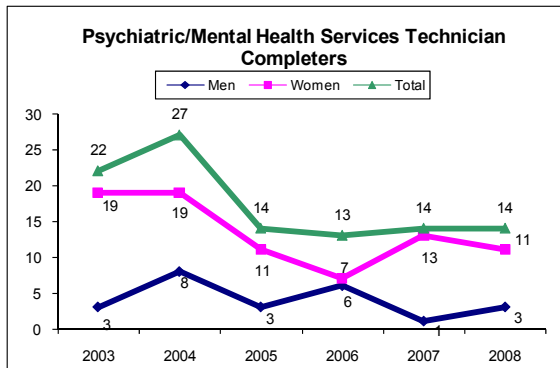
Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Associate	26	41	49	49	52	86

- Total annual program completions increased by 230.8 percent between 2003 and 2008.
- Completions per 100,000 population increased by 206.2 percent from 2003 to 2008.
- 55.8 percent of program completers were female in 2008 compared to 56.5 percent in 2003.





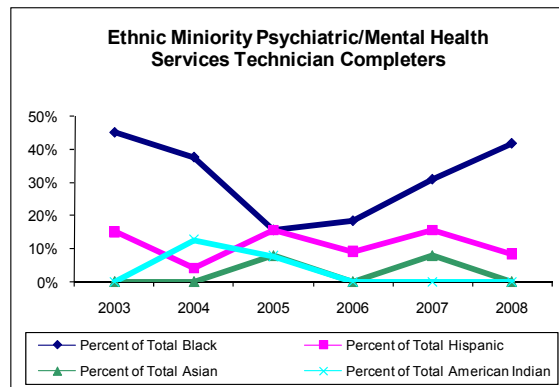
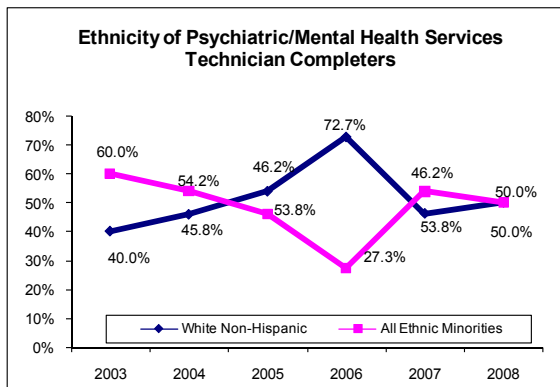
Psychiatric/Mental Health Services Technician (CIP 51.1502)



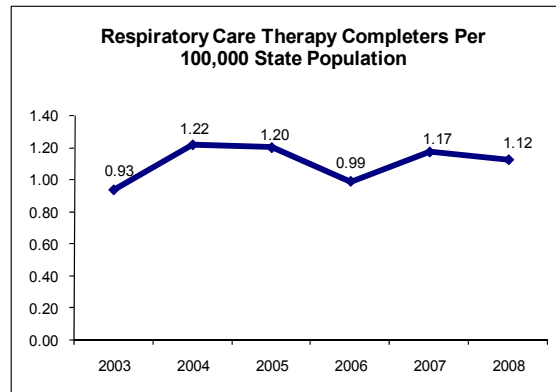
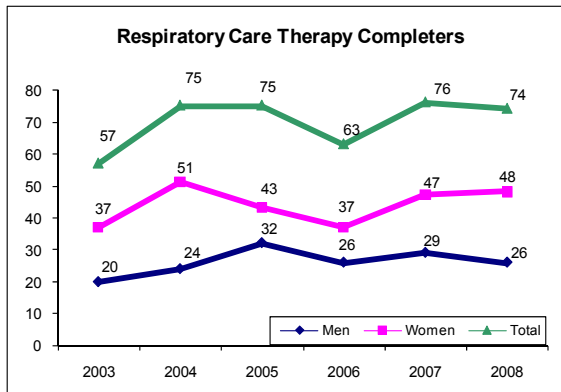
- One community college in the state offered Psychiatric/Mental Health Services Technician programs in 2008, compared to three in 2003.
- There are two types of Psychiatric/Mental Health Programs in Washington. The number of program completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Less than two years	21	22	10	9	11	12
Associate	1	5	4	4	3	2

- Total annual program completions decreased by 36.4 percent between 2003 and 2008.
- Completions per 100,000 population decreased by 41.1 percent from 2003 to 2008.
- 78.6 percent of program completers were female in 2008 compared to 86.4 percent in 2003.
- With the number of completions per year being low, a small variance in any one year can give a false impression of the significance of the percent of change.



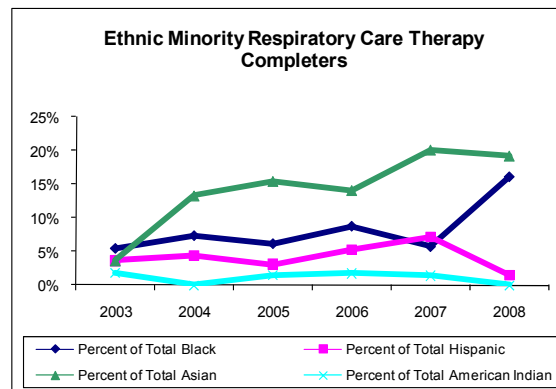
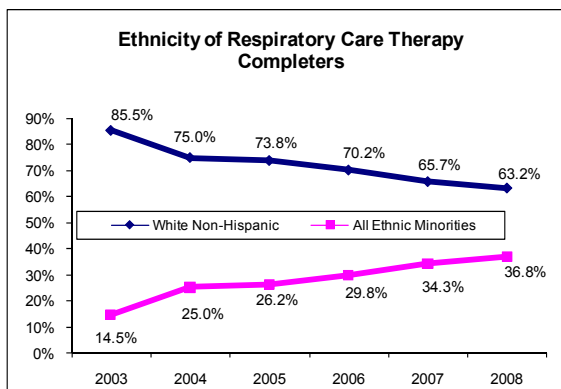
### Respiratory Care Therapy (CIP 51.0908)



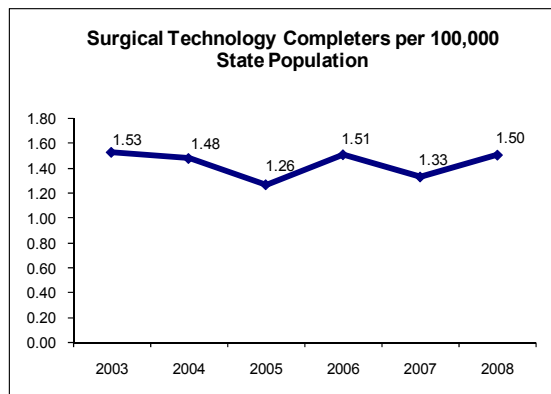
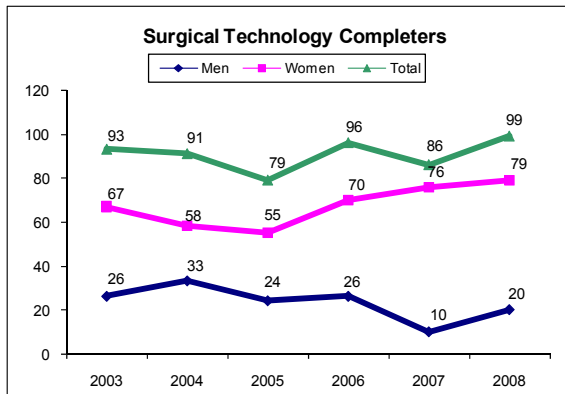
- Four community colleges in the state offered Respiratory Care Therapy programs in 2008, the same as in 2003.
- There have been two types of Respiratory Care Therapy Programs in Washington though currently only the Associates Degree program is used. The number of program completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Associate	47	65	75	63	76	74
2 to 4 years	10	10				

- Total annual program completions increased by 29.8 percent between 2003 and 2008.
- Completions per 100,000 population increased by 20.2 percent in that same time period.
- 64.9 percent of program completers were female in 2008, the same as in 2003.



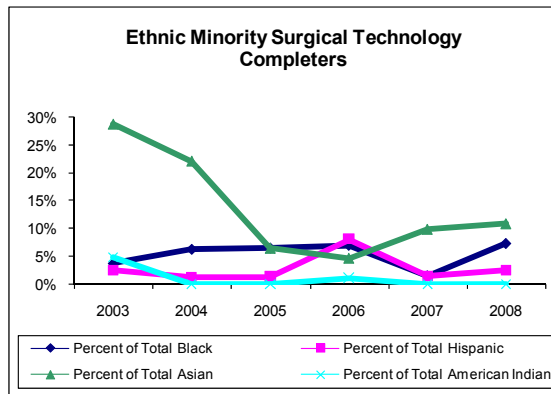
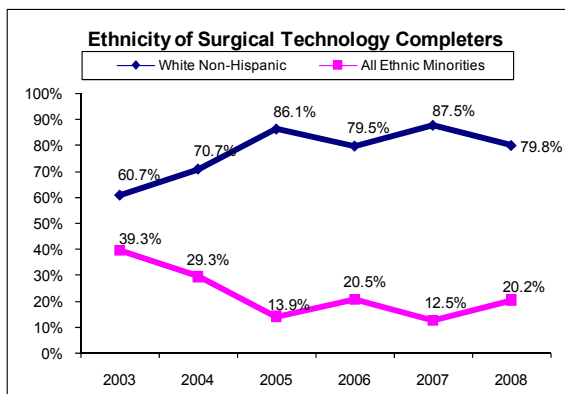
Surgical Technology Program (CIP 51.0909)



- Six community and technical colleges offered Surgical Technology programs in 2008, the same as in 2003.
- There are two types of Surgical Technology programs in Washington. The number of program completions from 2003-2008 by type are as follows:

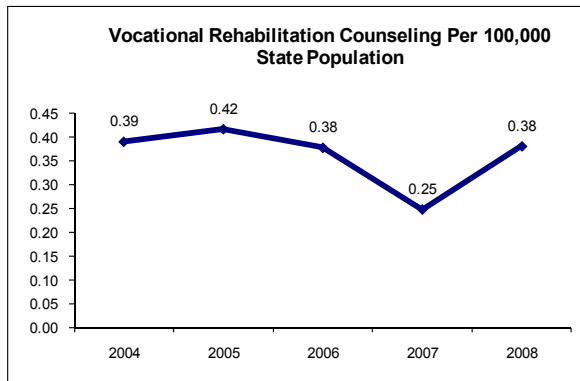
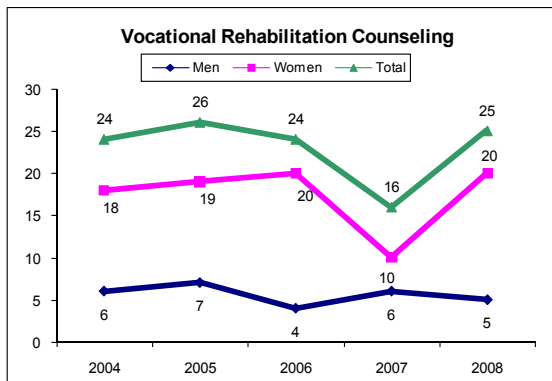
Type of Program	Number of Program Completions*					
	2003	2004	2005	2006	2007	2008
Less than two years	73	74	55	56	48	53
Associate	20	17	24	40	39	47

- Total annual program completions increased by 7.5 percent between 2003 and 2008.
- Completions per 100,000 population decreased by 1.5 percent from 2003 to 2008.
- 79.8 percent of program completers were female in 2008 compared to 72.0 percent in 2003.



\* IPEDS completion data was supplemented with data from SBCTC for all six years.

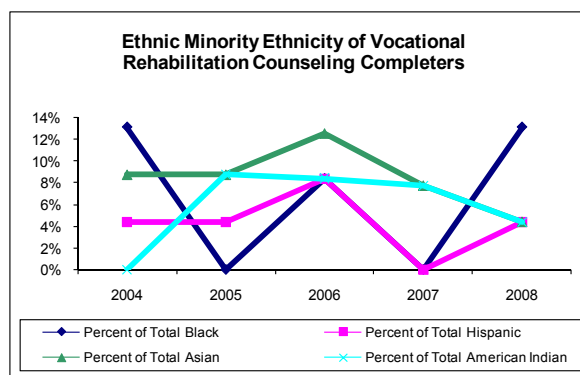
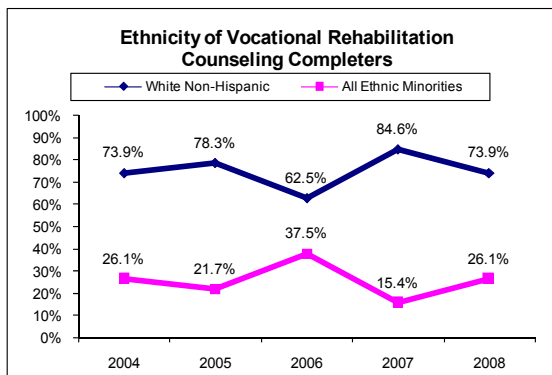
Vocational Rehabilitation Counseling (CIP 51.2310)



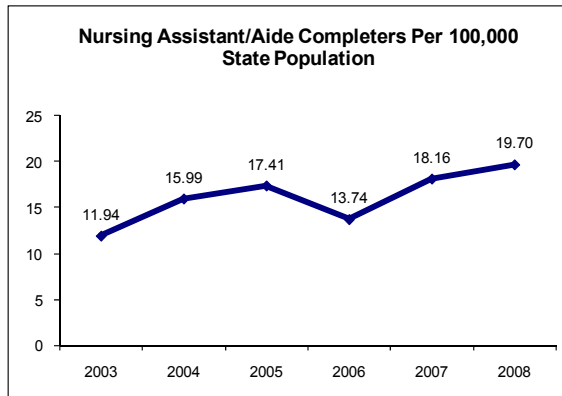
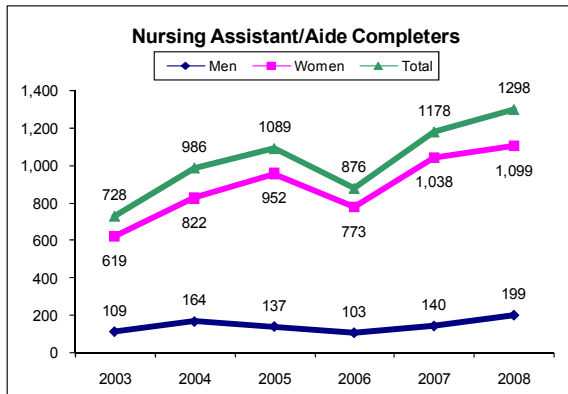
- One university and one community college offered Vocational Rehabilitation Counseling programs in 2008; none were reported in 2003.
- Two types of Vocational Rehabilitation Counseling programs were offered in 2008.
- Neither IPEDS nor SBCTC reflected any program completions in 2003.
- The number of program completions by type are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Less than two years	n/a	1	0	0	0	0
Associate	n/a	9	8	5	2	5
Master's	n/a	14	18	19	14	20

- Total annual program completions increased by 4.2 percent between 2004 and 2008.
- Completions per 100,000 population decreased by 2.5 percent from 2004 to 2008.
- 80 percent of program completers were female in 2008 compared to 75 percent in 2004.



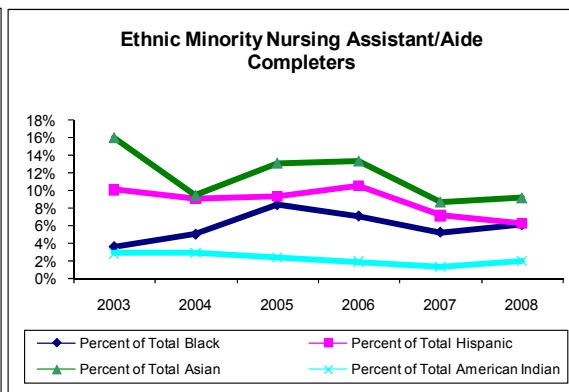
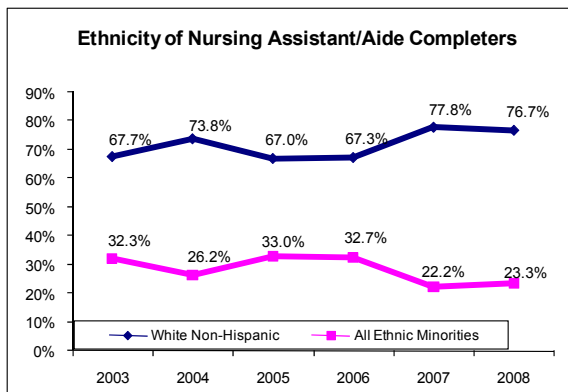
Nursing Assistant/Aide (CIP 51.1614)



- Seventeen community and technical colleges offered Nursing Assistant/Aide programs in 2008, compared to 12 in 2003.
- The number of program completions from 2003-2008 are as follows:

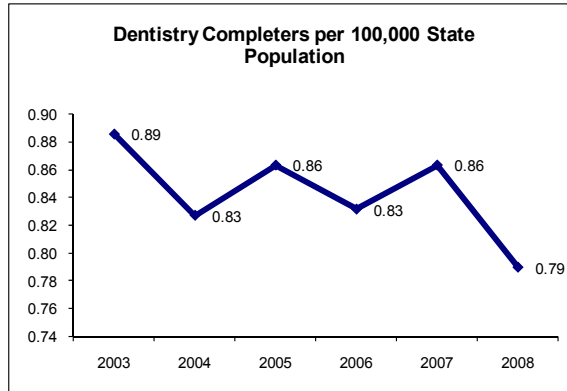
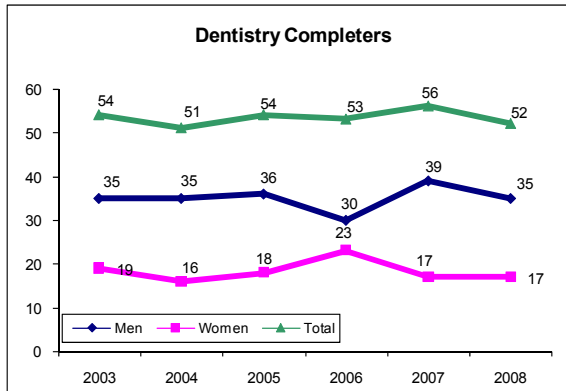
Type of Program	Number of Program Completions*					
	2003	2004	2005	2006	2007	2008
Less than two years	740	989	1,097	903	1,183	1,306

- Total annual program completions increased by 76.5 percent between 2003 and 2008.
- Completions per 100,000 population increased by 65.1 percent from 2003 to 2008.
- 84.7 percent of program completers were female in 2008 compared to 85.0 percent in 2003.



\* IPEDS completion data was supplemented with data from SBCTC for all six years.

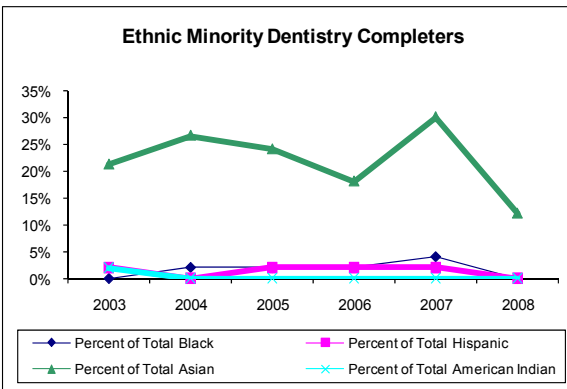
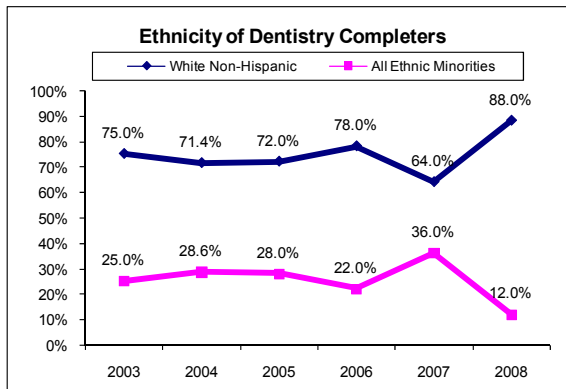
Dentistry (CIP 51.0401)



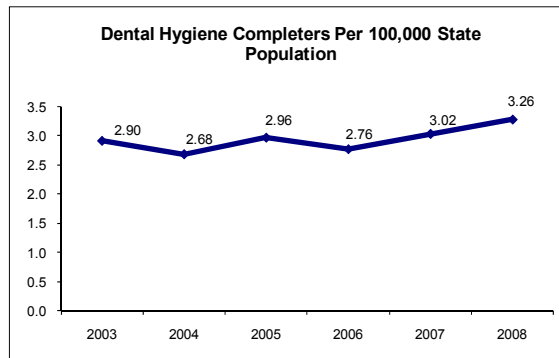
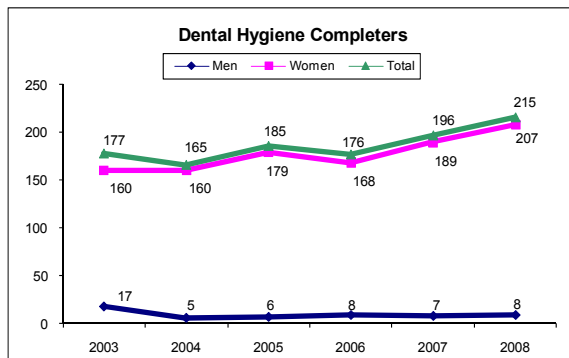
- One state university offered a Dentistry program in 2008, the same as in 2003.
- The number of program completions from 2003-2008 are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
First Professional Degree	54	51	54	53	56	52

- Total annual program completions decreased by 3.7 percent between 2003 and 2008.
- Completions per 100,000 population decreased by 10.9 percent from 2003 to 2008.
- 32.7 percent of program completers were female in 2008 compared to 35.2 percent in 2003.



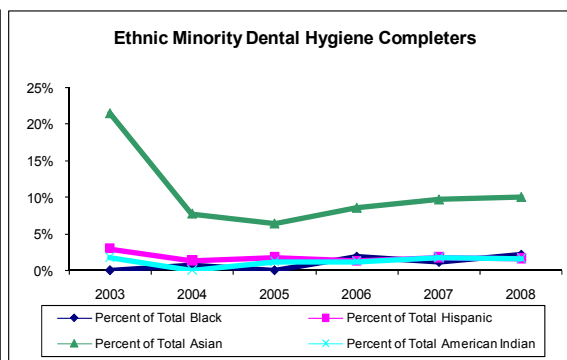
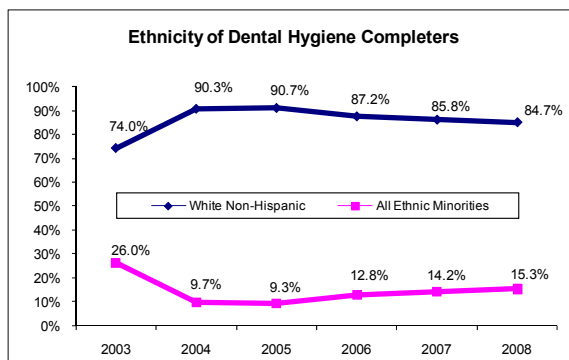
### Dental Hygiene (CIP51.0602)



- Seven community and technical colleges and one university offered Dental Hygiene programs in 2008, the same as in 2003.
- There are two types of Dental Hygiene programs in Washington. The number of program completions from 2003-2008 by type are as follows:

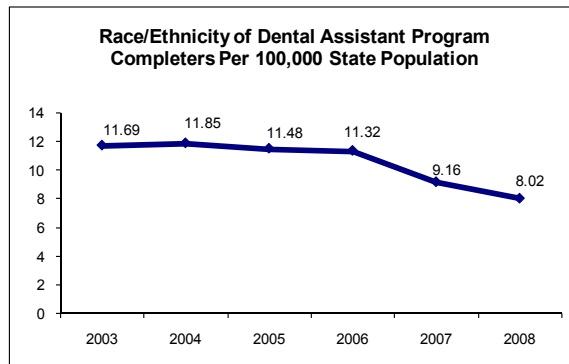
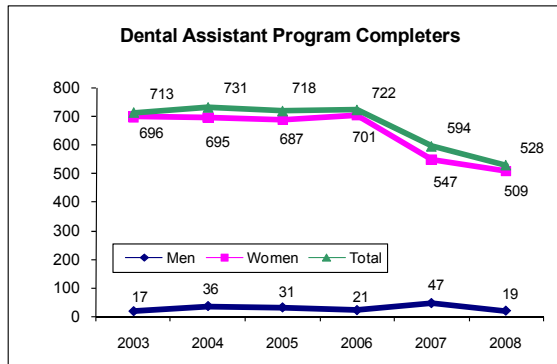
Type of Program	Number of Program Completions*					
	2003	2004	2005	2006	2007	2008
Associate	141	119	128	126	139	149
Baccalaureate	36	46	57	50	58	66

- Total annual program completions increased by 21.5 percent between 2003 and 2008.
- Completions per 100,000 population increased by 12.4 percent from 2003 to 2008.
- 96.3 percent of program completers were female in 2008 compared to 90.4 percent in 2003.



\* IPEDS completion data for Associate programs was supplemented with data from SBCTC for all six years.

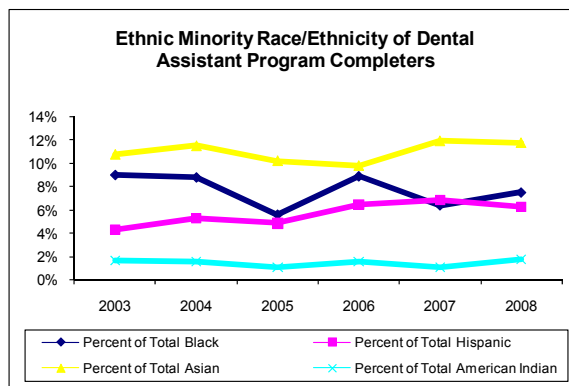
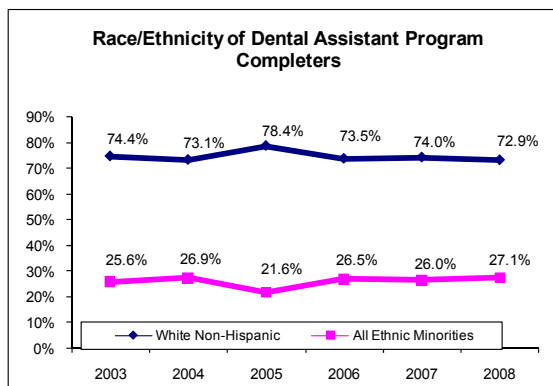
Dental Assistant (CIP 51.0601)



- Fifteen community and technical colleges offered Dental Assistant programs in 2008, the same as in 2003.
- There are three types of Dental Assistant programs in Washington. The number of program completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions*					
	2003	2004	2005	2006	2007	2008
Less than two years	595	678	716	586	478	422
Associate	53	45	57	85	76	53
2 to 4 years	15	7	12	13	3	14

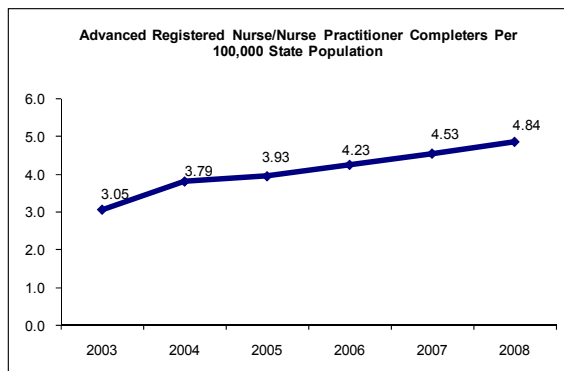
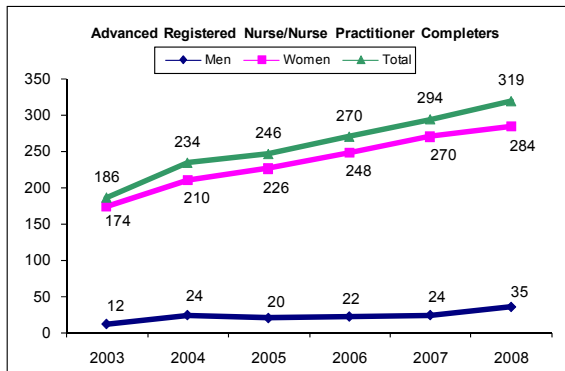
- Total annual program completions decreased by 25.9 percent between 2003 and 2008.
- Completions per 100,000 population decreased by 31.4 percent from 2003 to 2008.
- 96.4 percent of program completers were female in 2008 compared to 97.6 percent in 2003.



\* IPEDS completion data was supplemented with data from SBCTC for all six years.



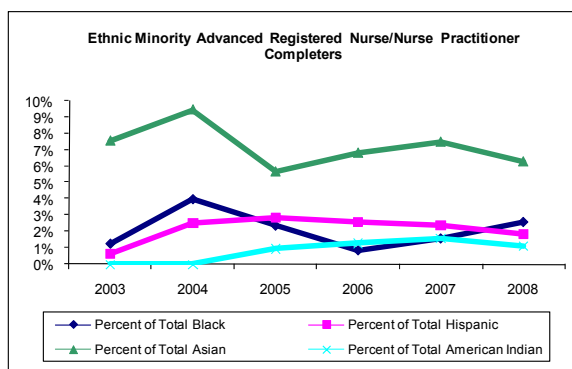
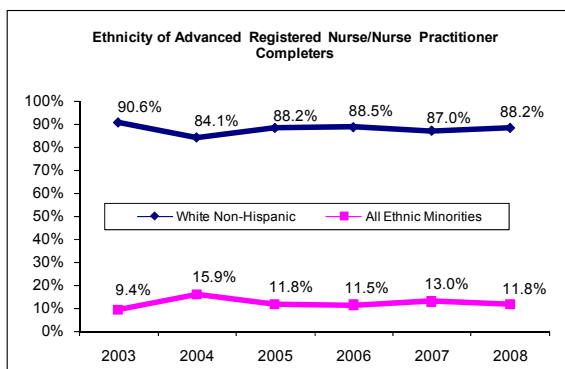
### Advanced Registered Nurse Practitioner (CIP 51.1605 and 1601)



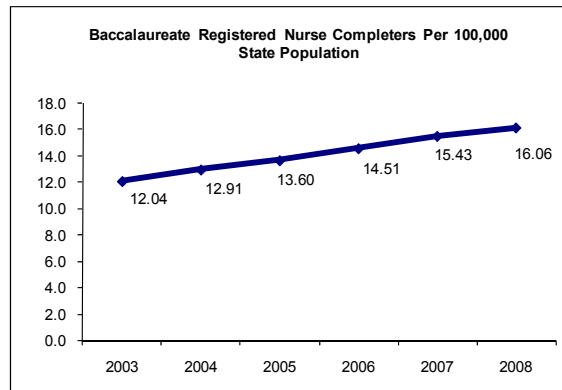
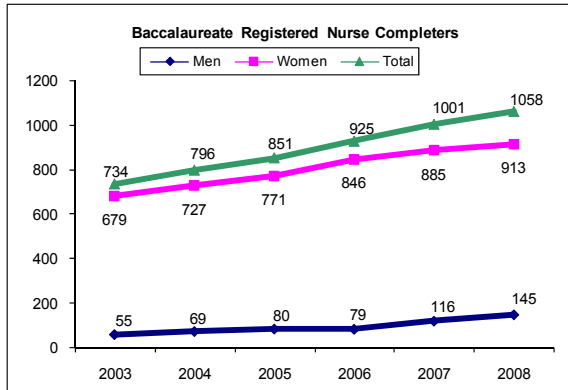
- Seven universities offered Advanced Registered Nurse/ Nurse Practitioner programs in 2008 compared to three in 2003.
- Nurse Practitioners and Registered Nurses having a degree or certificate at or above the master’s level were selected. There are three types of programs available. They are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Master’s	176	224	227	254	280	302
Doctoral	10	10	19	14	14	16
Post Master’s	0	0	0	2	0	1

- The total annual program completions increased by 71.5 percent between 2003 and 2008.
- Completions per 100,000 population increased by 58.8 percent from 2003 to 2008.
- 89 percent of program completers were female in 2008 compared to 93.5 percent in 2003.



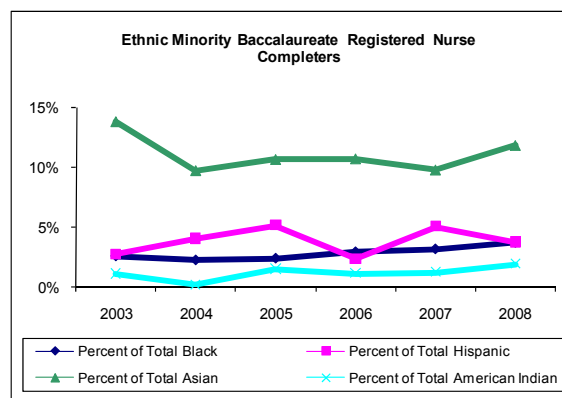
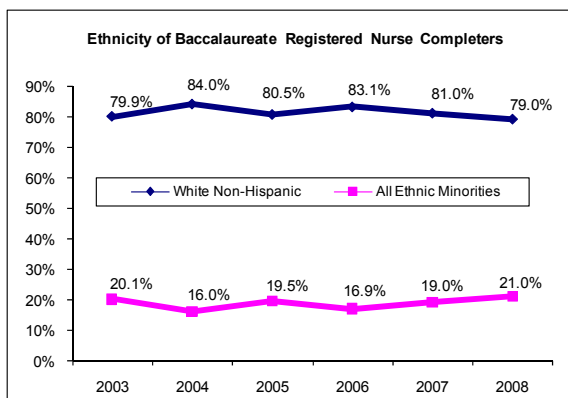
### Baccalaureate Registered Nurse (CIP 51.1601)



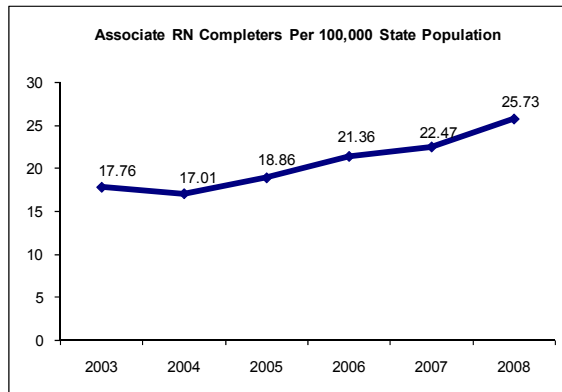
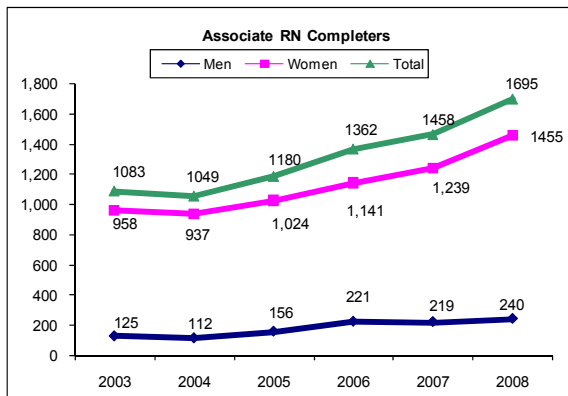
- Twelve universities and colleges offered Baccalaureate level Registered Nurse programs in 2008, compared to 14 in 2003.

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Baccalaureate	734	796	851	925	1001	1058

- Total annual program completions for baccalaureate level RNs increased by 44.1 percent between 2003 and 2008.
- Completions per 100,000 population increased by 33.4 percent from 2003 to 2008.
- 86.3 percent of program completers were female in 2008 compared to 92.5 percent in 2003. The number of men completing baccalaureate level RN programs increased by 83 percent during this time frame.



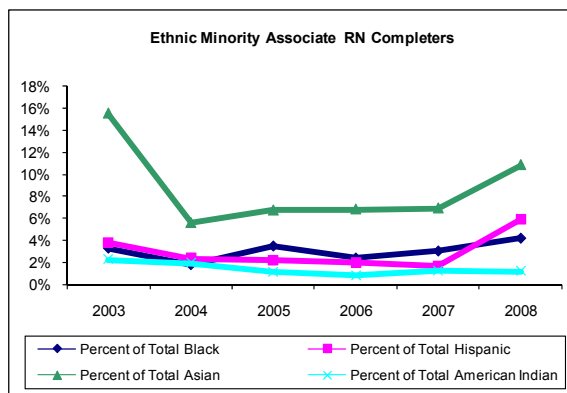
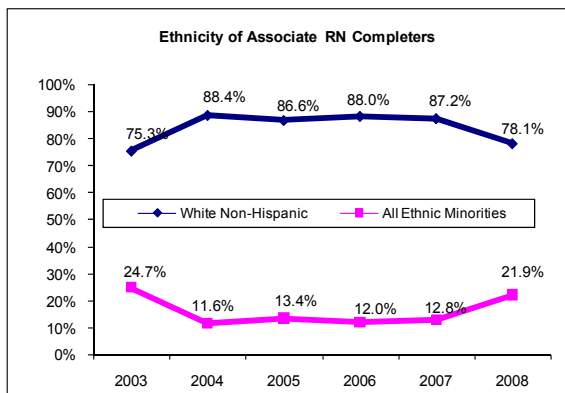
### Associate Registered Nurse (CIP 51.1601)



- Thirty-one community and technical colleges offered Associate Level Registered Nurse programs in 2008, compared to 20 in 2003.

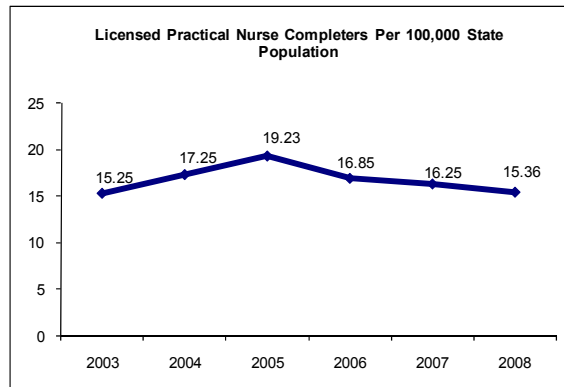
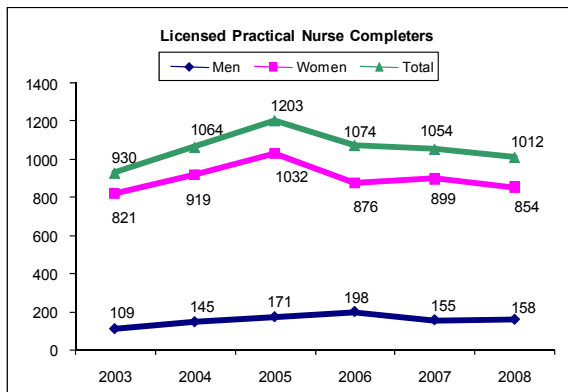
Type of Program	Number of Program Completions*					
	2003	2004	2005	2006	2007	2008
Associate	1,084	1,054	1,183	1,368	1,461	1,695

- Total annual program completions for associate level RNs increased by 56.5 percent between 2003 and 2008.
- Completions per 100,000 population increased by 44.9 percent from 2003 to 2008.
- 85.8 percent of program completers were female in 2008 compared to 88.5 percent in 2003. There was a 23 percent increase of males completing an associate level nursing program.



\* IPEDS completion data was supplemented with data from SBCTC for all six years.

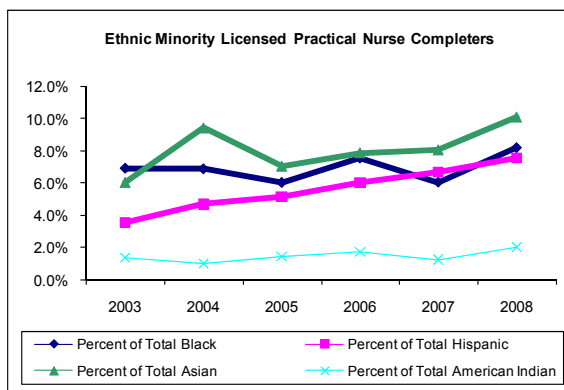
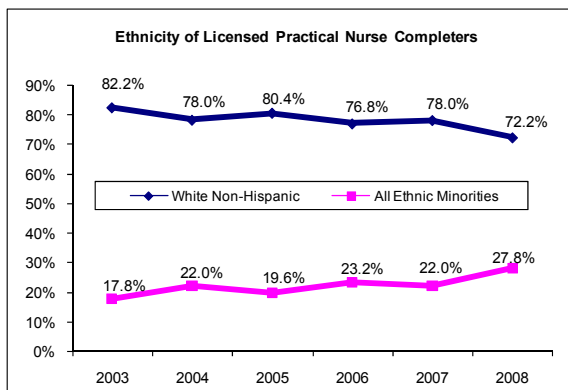
Licensed Practical Nurse (CIP 51.1613)



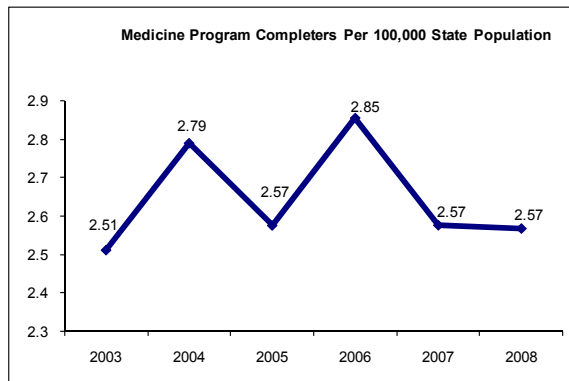
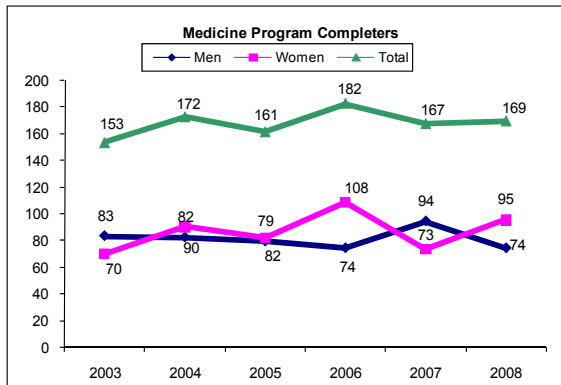
- Some 22 community and technical colleges offered Licensed Practical Nurse programs in 2008, compared to 21 in 2003.
- There are three types of Licensed Practical Nurse programs in Washington. The number of program completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Less than two years	839	992	1,110	1,019	988	928
Associate	25	27	41	55	54	43
2 to 4 years	66	45	52	0	12	41

- Total annual program completions for associate level RNs increased by 8.8 percent between 2003 and 2008.
- Completions per 100,000 population increased by 0.7 percent from 2003 to 2008.
- 84.4 percent of program completers were female in 2008 compared to 88.3 percent in 2003. There was a 33 percent increase in the number of males completing an LPN program.



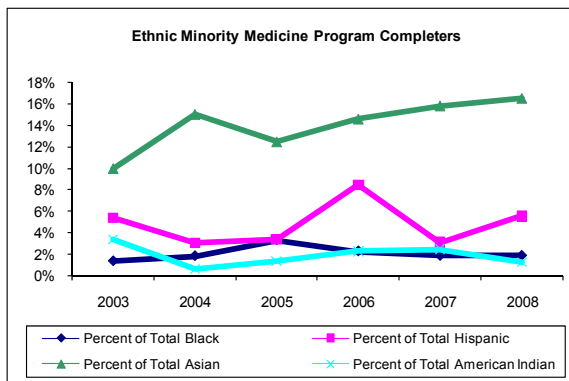
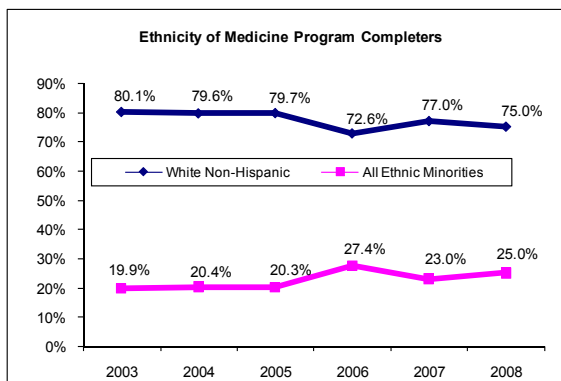
Medicine (CIP 51.1201)



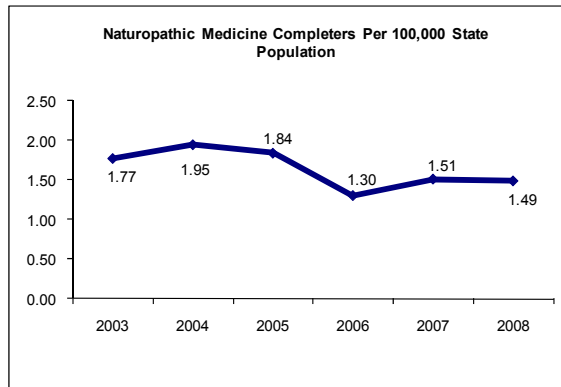
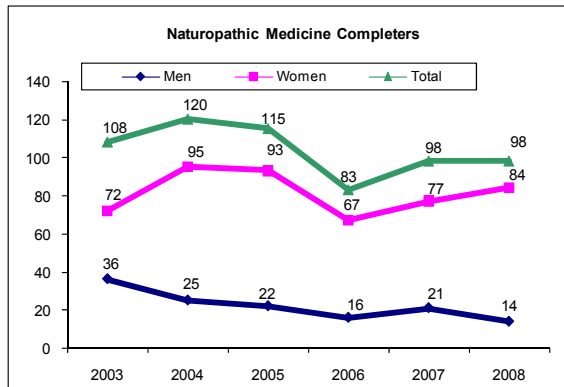
- One university offered a program in Medicine in 2008, the same as in 2003.

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
First-Professional Degree	153	172	161	182	167	169

- Total annual program completions increased by 10.5 percent between 2003 and 2008.
- Completions per 100,000 population increased by 2.3 percent from 2003 to 2008.
- 56.2 percent of program completers were female in 2008 compared to 45.8 percent in 2003, a 23 percent increase.



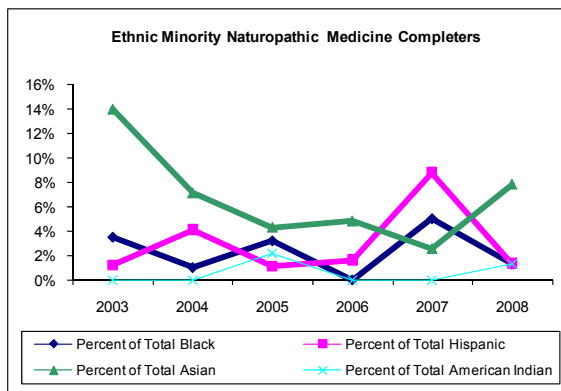
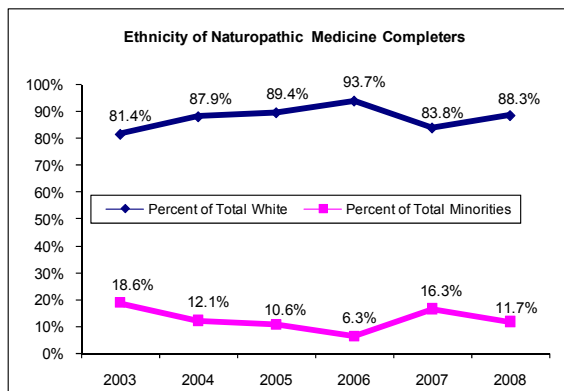
### Naturopathic Medicine (CIP 51.3303)



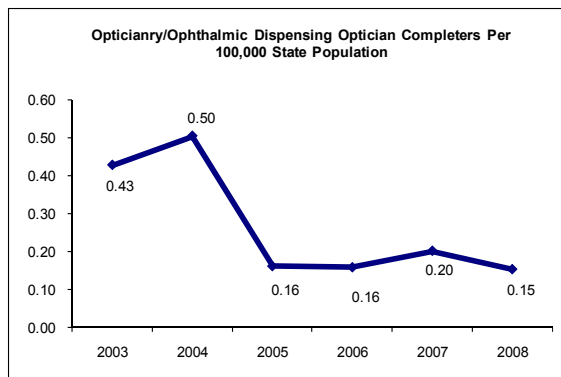
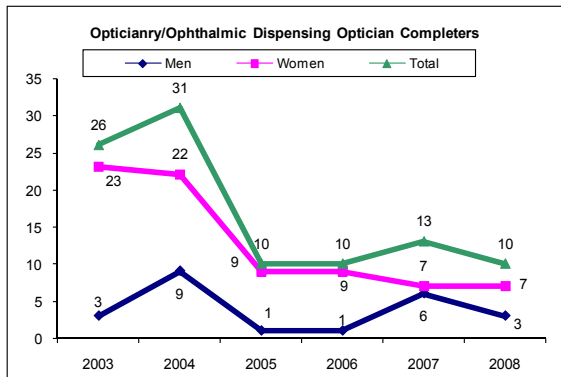
- One university offered a program in Naturopathic Medicine in 2008, the same as in 2003.

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
First-Professional Degree	108	0	115	83	98	98
First-Professional Certificate	0	120	0	0	0	0

- Total annual program completions decreased by 9.3 percent between 2003 and 2008.
- Completions per 100,000 population decreased by 16 percent from 2003 to 2008.
- 85.7 percent of program completers were female in 2008 compared to 66.7 percent in 2003.



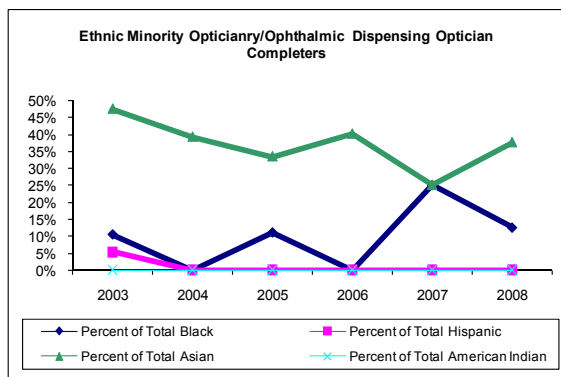
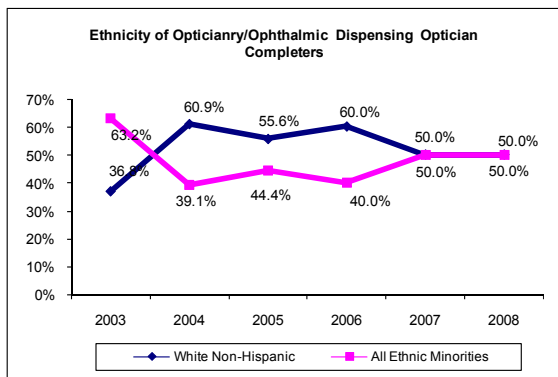
### Opticianry/Ophthalmic Dispensing Optician (CIP 51.1801)



- Two community and technical colleges offered Opticianry/Ophthalmic Dispensing Optician programs in 2008, the same as in 2003.
- There are two types of Opticianry/Ophthalmic Dispensing programs in Washington. Completions from 2003-2008 by type are as follows:

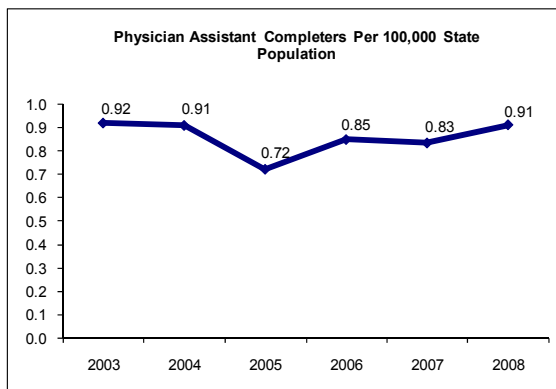
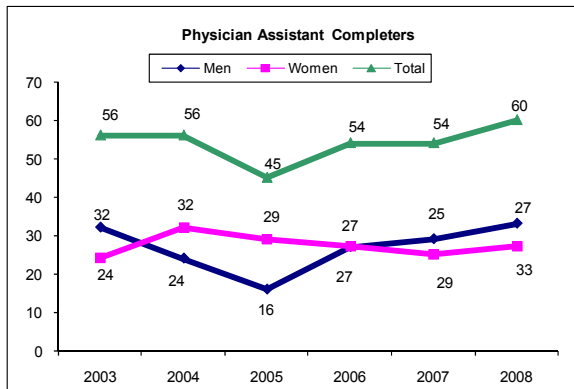
Type of Program	Number of Program Completions*					
	2003	2004	2005	2006	2007	2008
Less than two years	5	5	0	3	0	1
Associate	21	26	10	7	13	9

- Total annual program completions decreased by 64.4 percent (from 26 to 10) between 2003 and 2008.
- Completions per 100,000 decreased by 64.4 percent from 2003 to 2008.
- 70 percent of program completers were female in 2008 compared to 84.5 percent in 2003.
- Since the numbers of completions per year are low, a small variance in any one year can give a false impression of the significance of the percent of change.



\* IPEDS completion data was supplemented with data from SBCTC for all six years.

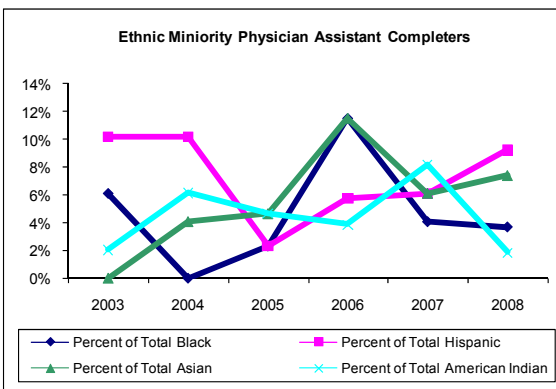
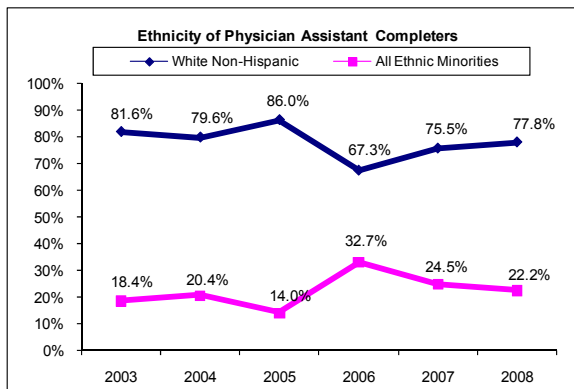
Physician Assistant (CIP 51.0912)



- One university offered a Physician Assistant program in 2008, the same as in 2003.

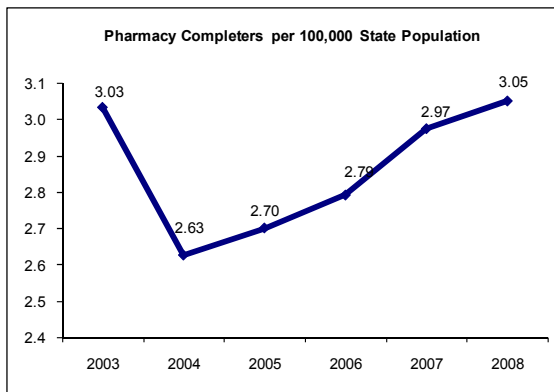
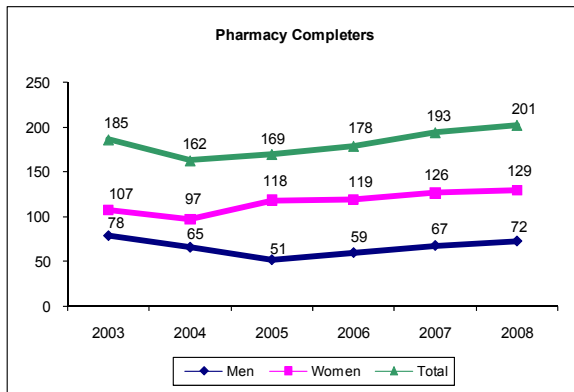
Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Baccalaureate	56	56	45	54	54	60

- Total annual program completions increased by 7.1 percent between 2003 and 2008.
- Completions per 100,000 population decreased by 0.8 percent from 2003 to 2008.
- 45 percent of program completers were female in 2008 compared to 42.9 percent in 2003.





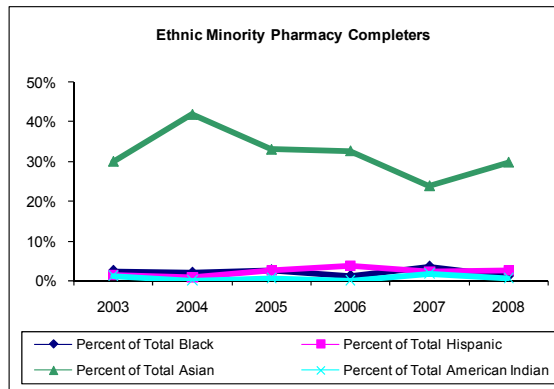
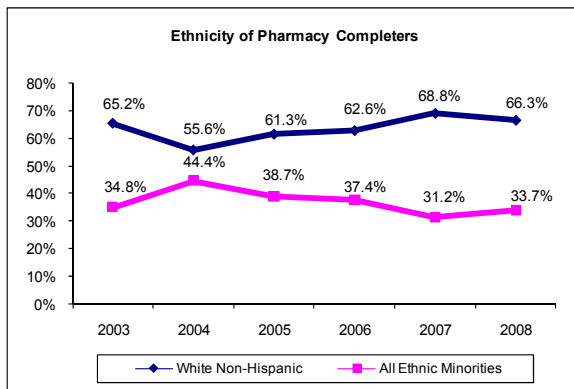
Pharmacy (CIP 51.2001)



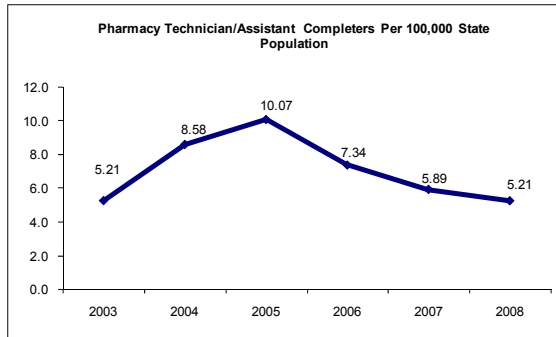
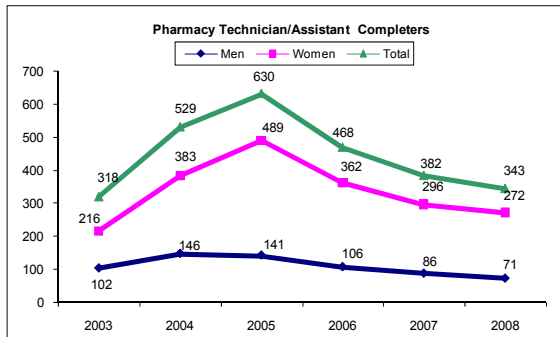
- Two universities offered a Pharmacy program in 2008, the same as in 2003.
- The number of program completions from 2003-2008 are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
First-professional degree	185	162	169	178	193	201

- Total annual program completions increased by 8.6 percent between 2003 and 2008.
- Completions per 100,000 population increased by 0.6 percent from 2003 to 2008.
- 64.2 percent of program completers were female in 2008 compared to 57.8 percent in 2003.



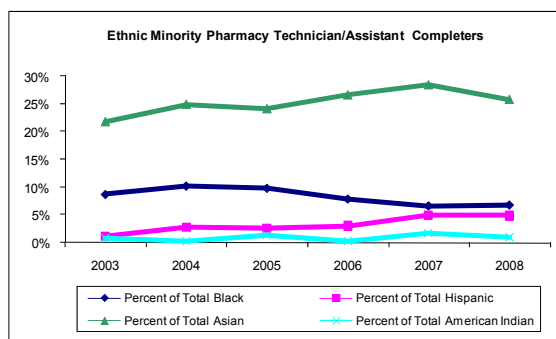
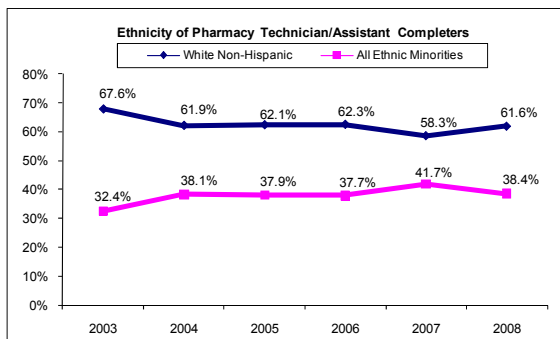
### Pharmacy Technician/Assistant (CIP 51.0805)



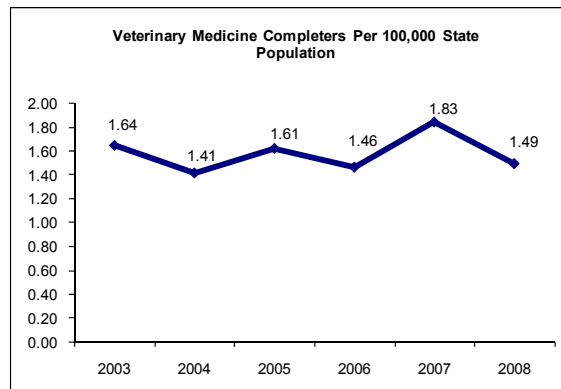
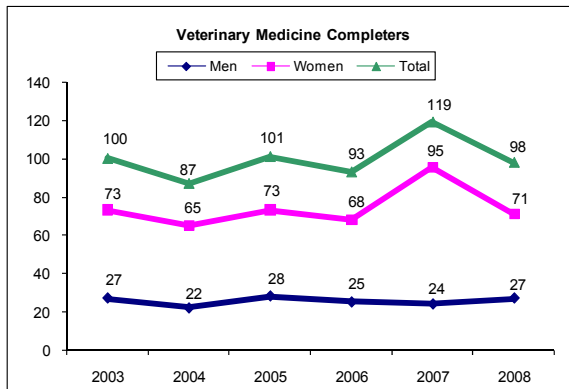
- Some 17 community and technical colleges offered Pharmacy Technician/Assistant programs in 2008, compared to 14 in 2003.
- There are two types of Pharmacy Technician/Assistant Programs in Washington. Completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
Less than two years	295	496	609	450	348	306
Associate	23	33	21	18	34	37

- Total annual program completions increased by 7.9 percent between 2003 and 2008.
- Completions per 100,000 population remained virtually the same between 2003 and 2008.
- 79.3 percent of program completers were female in 2008 compared to 67.9 percent in 2003.



### Veterinary Medicine (CIP 51.2401)



- One university offered a program in Veterinary Medicine in 2008, the same as in 2003.
- The number of program completions from 2003-2008 by type are as follows:

Type of Program	Number of Program Completions					
	2003	2004	2005	2006	2007	2008
First-professional Degree	100	87	101	93	119	98

- Total annual program completions decreased by 2 percent from 2003 to 2008.
- Completions per 100,000 population decreased by 9.3 percent from 2003 to 2008.
- 72.4 percent of program completers were female in 2008 compared to 73 percent in 2003.

