DOCUMENT RESUME

ED 319 704

SP 032 309

TITLE

Colleges and Universities: Teachers Prepared

INSTITUTION

Pennsylvania State Dept. of Education, Harrisburg.

PUB DATE

89

NOTE

21p.

PUB TYPE

Statistical Data (110)

EDRS PRICE

MF01/PC01 Plus Postage.

DESCRIPTORS

Elementary Secondary Education; Higher Education; *Preservice Teacher Education; Schools of Education; State Surveys; *Teacher Certification; *Teacher

Employment; Teacher Supply and Demand

ABSTRACT

This booklet presents findings from a survey of teacher preparation colleges and universities covering the years between 1978 and 1988. Information from the survey is provided in tabular form as follows: (1) teachers prepared by type; (2) teachers prepared by institutional category; (3) teachers prepared; (4) employment status of teachers prepared; (5) teachers prepared by area of certification; (6) employment status of teachers by type of preparation; (7) employment status of teachers prepared by area of certification; and (8) outlook of teacher demand in Pennsylvania. (JD)

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Colleges and Universities

Teachers Prepared 1987-88

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Teachers Prepared 1987-88

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May 1989

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HIGHLIGHTS

- * During 1987-88, a total of 6,709 new teachers were prepared, consisting of 3,140 elementary, 1,818 secondary, 1,064 K-12, and 687 special education teachers.
- * The 6,709 teachers represented a decline of 2.3 percent from the number prepared in 1986-87 and a decline of 65.5 percent from the peak year, 1971-72.
- ★ The state universities produced 51.0 percent of the total teachers prepared during 1987-88. Private colleges and universities produced 32.0 percent; state-related commonwealth universities, 15.9 percent; and private state-sided; 1.1 percent.
- * Of those responding to a follow-up survey, 65.2 percent were engaged in teaching and 14.6 percent were still seeking teaching positions as of November 1, 1988. Of those graduates placed in teaching positions, 73.1 percent were employed in Pennsylvania.



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OVERVIEW

After more than a decade of continuous decreases in the supply of teachers, the number of new teachers prepared with initial certification increased during 1986-87. However, the teachers prepared during 1987-88 decreased to 6,709, a decline of 2.3 percent from the preceding year.

The preparation of elementary teachers continued to show a strong growth, showing an increase of 19.9 percent in 1986-87 and 7.1 percent in 1987-88 over the respective preceding years. However, when compared to 1986-87, 1987-88 data showed 5.8 percent fewer secondary, 7.8 percent fewer K-12 and 19.2 percent fewer special education teachers prepared.

By institutional category, in 1987-88, new teachers consisted of 3,423 from state universities, 1,068 from state-related commonwealth universities, 75 from private state-aided institutions and 2,143 from private colleges and universities. This data, when compared to 1986-87, showed an increase of 4.7 percent for state universities, a decrease of 11.4 percent for state-related commonwealth universities, a decrease of 29.3 percent for private state-aided institutions and a decrease of 6.3 percent for private colleges and universities.

Of the six largest disciplines, elementary (general) showed an increase of 10.1 percent and social studies an increase of 24.3 percent when compared to 1986-87 graduates. The other four disciplines showed decreases. Mentally and physically handicapped declined 16.9 percent; health and physical education, 11.0 percent; early childhood, 7.5 percent; and mathematics, 6.7 percent.

A follow-up questionnaire regarding placement rate was returned by 61.3 percent of the new teachers prepared. Of those responding, placement by type of preparation showed that of all the teachers prepared within a



specific category, special education placed 69.7 percent in teaching positions; elementary, 68.5 percent; secondary, 60.6 percent; and K-12, 59.6 percent. Within these four categories of preparation, 16.2 percent of the elementary teachers were still seeking teaching positions; secondary, 15.7 percent; K-12, 13.4 percent; and special education, 6.6 percent.

Although the most recent year showed a slight decline in the number of teachers prepared from the previous year, it is generally felt an upward trend will return in the near future. A random survey of the major teacher preparing institutions in Pennsylvania indicated a significant increase in enrollments in the field of education. Especially in the fields of mathematics and sciences where some of the most critical needs are reported to exist, Pennsylvania Higher Education Assistance Agency scholarships, together with improved salaries, should further help to bring more teachers into these fields.

TABLE 1 TEACHERS PREPARED BY TYPE 1978-79 THROUGH 1987-88

	 Total		Secondary	 K-12	Special Education
1978-79	9 505	3 380	1 904	2 705	1 516
1979-80	8 444	2 996	1 602	2 379	1 467
1980-81	7 396	2 570	1 476	1 977	1 373
1981-82	7 172	2 446	1 385	1 761	1 580
1982-83	6 414	2 322	1 189	1 569	1 334
1983-84	5 987	2 263	1 270	1 360	1 094
1984-85	5 961	2 384	1 372	1 290	915
1985-86	5 946	2 446	1 530	1 146	824
1986-87	6 866	2 933	1 929	1 154	850
1987-88	6 709	3 140	1 818	1 064	687

TABLE 2 TEACHERS PREPARED BY INSTITUTIONAL CATEGORY 1978-79 THROUGH 1987-88

	 Total 	 State Universities	State-Related Commonwealth <u>Universities</u>	Private State-Aided Institutions	Private Colleges and Universities
1978-79	9 505	5 151	1 965	101	2 288
1979-80	8 444	4 716	1 682	78	1 968
1980-81	7 396	4 173	1 393	57	1 773
1981-82	7 172	3 659	1 542	60	1 911
1982-83	6 414	3 419	1 224	51	1 720
1983-84	5 987	3 255	1 013	56	1 663
1984-85	5 961	3 178	1 030	65	1 688
1985-86	5 946	3 015	913	86	1 932
1986-87	6 866	3 268	1 205	106	2
1987-88	6 709	3 423	1 068	75	2 143



FIGURE 1

TEACHERS PREPARED 1978-79 THROUGH 1987-88

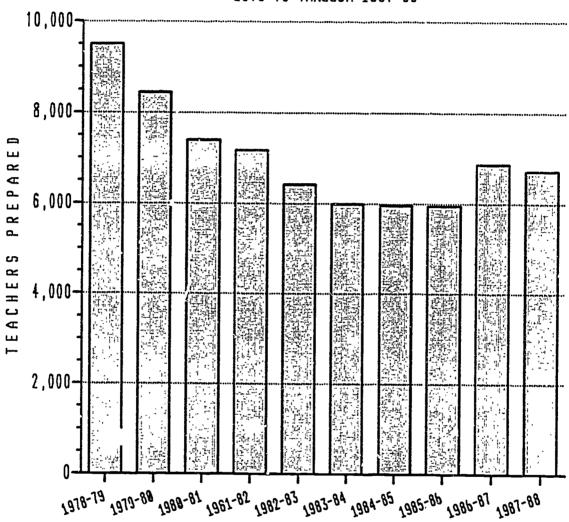




TABLE 3
EMPLOYMENT STATUS OF TEACHERS PREPARED
1978-79 THROUGH 1987-88

	 Total	l Teac	Teaching		aching	 Unknown		
	1	Number	Percent	Number	Percent	Number	Percent	
1978-79	9 505	4 021	42.3	2 658	28.0	2 826	29.7	
1979-80	8 444	3 598	42.6	2 255	26.7	2 591	30.7	
1980-81	7 396	3 003	40.6	2 073	28.0	2 320	31.4	
1981-82	7 172	2 606	36.3	1 929	26.9	2 637	36.8	
1982-83	6 414	2 447	38.2	1 774	27.7	2 193	34.2	
1983-84	5 987	2 395	40.0	1 583	26.4	2 009	33.6	
1984-85	5 961	2 530	42.4	1 286	21.6	2 145	36.0	
1985-86	5 946	2 695	45.3	1 360	22.9	1 891	31.8	
1986-87	6 866	2 771	40.4	1 368	19.9	2 727	39.7	
1987-88	6 709	2 680	40.0	1 432	21.3	2 597	38.7	

TABLE 4

YEACHERS PREPARED BY AREA OF CERTIFICATION 1978-79 THROUGH 1987-88

	1978-79 THROUGH 1987-88										
	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1586-87	1987-88	
TOTAL	9 505	8 444	7 396	7 172	6 414	5 987	5 961	5 946	6 866	6 709	
ELEMENTARY	3 380	2 996	2 570	2 446	2 322	2 263	2 384	2 446	2 933	3 140	
Elementary, General	2 896	2 371	2 020	1 927	1 823	1 838	1 852	2 021	2 429		
Early Childhood	484	625	550	519	499	425	532	-	•	2 674	
SECONDARY	1 904	1 602	1 476	1 385	1 189	1 270		425	504	416	
Business Education	281	189	208	168	167		1 372	1 530	1 929	1 818	
Communications	125	105	104			131	148	154	177	113	
English	317			81	86	58	61	65	49	63	
Mathematics		264	242	209	794	223	212	264	312	287	
	198	178	158	162	146	211	287	338	462	431	
Physics and Hathematics	7	7	10	20	2	7	3	11	9	23	
Sciencas, Total	296	235	248	211	179	255	302	340	441	430	
Biology Chemistry	160 33	127 26	146 25	115 34	111 22	133	168	187	214	206	
Earth and Space	29	30	34	32	17	45 34	49 28	64 27	93 30	76 56	
General Physics	50 14	40	30	27	26	31	38	29	75	59	
	14	12	13	3	3	12	19	33	· 29	33	
Social Studies	569	489	369	370	283	284	262	294	342	425	
Vocational Education	111	133	137	164	132	100	93	54	137	42	
Othar Secondary	10	2	0	0	0	1	4	0	0	4	
1–12	2 705	2 379	1 977	1 761	1 589	1 360	1 290	1 146	1 154	1 064	
Agriculture	22	45	35	45	27	17	17	12	16	16	
Art	339	291	237	211	188	165	147	156	164	130	
Fornign Languages, Total	232	- 184	150	143	101	112	103	104	116	118	
French German	69 77	49	44	44	34	32	34	32	30	34	
Italian	37 6	26 5	21 6	20	11	8	11	18	19	18	
Latin	3	7	5	4 7	2 4	2 3	0	0	ξ.	1	
Russian	2	3	0	ó	ī	2	8 0	9	5 1	7 3	
Spenish Other	111	92	7 <u>1</u>	65	49	64	49	43	61	58	
	4	2	3	3	0	1	1	2	Ö	ő	
Health and the second	38	37	33	15	23	13	≎0	16	28	25	
Health & Physical Education	894	841	697	620	597	473	412	354	338	301	
Home Economics	192	149	103	95	62	39	40	26	21	17	
Industrial Arts	264	236	162	135	161	147	145	109	89	76	
Library Science	117	84	91	74	62	56	42	35	32	41	
Husic	607	512	469	423	348	335	259	272	272	282	
Reading Specialist	0	0	0	0	0	3	105	62	78	58	
PECIAL EDUCATION	1 516	1 467	1 373	1 580	1 334	1 094	915	824	850	687	
Hearing Impaired	26	34	39	43	33	97	27	29	30	22	
Hentally/Physically Handicapped	1 106	1 095	1 030	1 205	1 011	830	697	603	652	542	
Speech/Language Impaired	351	303	269	297	259	148	173	156	125	110	



TABLE 5

EMPLOYMENT STATUS OF TEACHERS BY TYPE OF PREPARATION 1978-79 THROUGH 1987-88

	1978-79 THROUGH 1987-88									
	1978-79	1979-80	1980-81	1981-82	 1982-83 	1983-84	1984-85	1985-86	1986-87	1987-88
TOTAL	9 505	8 444	7 396	7 172	6 414	5 987	5 961	5 946	6 866	6 709
Teaching	4 021	3 598	3 003	2 606	2 447	2 395	2 530	2 695	2 771	2 680
In-State Out-of-State	2 951 1 070	2 595 1 003	2 160 843	1 904 702	1 744 703	1 670 725	1 788 742	1 912 783	2 074 697	1 959 721
Not Teaching	2 658	2 255	2 073	1 929	1 774	1 583	1 286	1 360	1 368	1 432 442
Otherwise Gainfully Employed Continuing Formal Study	476	893 484	870 395	637 441	691 390	559 305	468 283	447 290	480 269	274
Seeking Teaching Position	892	704	614	674	585	590 30	453	500 31	555 10	599 42
Seeking Non-Yeaching Position Other	n 67 144	59 110	39 155	31 146	24 84	99	20 62	92	54	75
Unknown	2 826	2 591	2 320	2 637	2 193	2 009	2 145	1 891	2 727	2 597
ELEMENTARY	3 380	2 996	2 570	2 446	2 322	2 263	2 384	2 446	2 933	3 140
Teaching	1 490	1 409	1 074	977	1 015	950	1 012	1 154	1 306	1 330
In-State Out-of-State	1 124 366	1 043 366	788 286	759 218	750 265	686 264	737 275	777 377	975 331	987 343
Not Teaching	968	805	737	721	646	594	500	523	553	612
Otherwise Gainfully Employed		291	246	200	236	227	168	162	172	158
Continuing Formal Study	107	131	112		92	72	75	65	69 278	91 315
Seeking Teaching Position Seeking Non-Teaching Positio	421 n 25	323 20	295 12		275 9	241 9	229 9	255 7	278 3	20
Other	60	40	72		34	45	19	34	31	28
Unknown	922	782	759	748	661	719	872	769	1 074	1 198
SECONDARY	1 904	1 602	1 476	1 385	1 189	1 270	1 372	1 530	1 929	1 818
Teaching	806	614	533 440	473	433	501	591 441	662	664	635 486
In-State Out-of-State	625 181	476 138	93	378 95		373 128	150	526 136	529 135	149
Not Teaching	541	463	403	350	298	311	295	354	364	413
Otherwise Gainfully Employed Continuing Formal Study	243 103	189 97	209 69		125 65	108 58	130 48	120 52	135 62	158 59
Seeking Teaching Position	144	133	88		84	120	96	142	155	165
Seeking Non-Texching Positio	n 18 33	12 32	11 26		3 21	11 14	4 17	15 25	3 9	8 23
Unknown	557	525	540			458	486	514	901	770
							1 000	1 144	1 154	1.044
K-12	2 705	2 379 812	1 977	1 761	1 569	1.360	1 290	1 146 452	1 154	1 064
Teaching In-State	900 645	581	662 464		451 314	439 287	465 297	331	400 288	397 282
Out-of-State	255	231	198	168	137	152	168	121	112	115
Not Teaching	851	716	642				304	282	255	269
Otherwise Gainfully Employed Continuing Formal Study	397 155	322 159	310 123		224 98	165 79	126 68	110 7	139 37	94 64
Seeking Teaching Position	240	186	167	138		155	89	64	70	89
Seeking Non-Teaching Positio	n 23 36	25 24	13 29		7 14	9 30	6 15	8 26	1 8	8 14
Unknown	954	851	673	711	625	483	521	412	499	398
SPECIAL EDUCATION	1 516	1 467	1 373	1 580	1 334	1 094	915	824	850	687
Teaching	825	763	734	623	548	505	462	427	401	318
In-State Out-of-State	557 268	495	468 266	402		324 181	313 149	278 149	282 119	204 114
Not Teaching Otherwise Gainfully Employed	298 84	271 96	291 105		337 106	240 59	187 44	201 55	196 34	138 32
Continuing Formal Study	111	97	91			96	92	99	101	60
Seeking Teaching Position	87	62	64	85	76		39	39	52	30
Seeking Non-Teaching Positio	n 1 15	2 14	3 28		5 15	1 10	1 11	1 7	3 6	6 10
O CITE										

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TABLE 6
EMPLOYMENT STATUS OF TEACHERS PREPARED BY AREA OF CERTIFICATION 1987-88

1_	TEACHING				NOT TEACHING					
· 	A11	In- State	Out- of- State	A11	 Otherwise Gainfully Employed		Teaching	Seaking Non- Teaching Position	Other	Unknown
TOTAL	2 680	1 959	721	1 432	442	274	599	42	75	2 597
ELEMENTARY	1 330	987	343	612	158	91	315	20	28	1 198
Elementary, General Early Childhood	1 106 224	814 173	292 51	537 75	138 20	80 11	278 37	15 5	26 2	1 031 167
SECONDARY	635	486	16	413	158	59	165	8	23	770
Accounting	6	6	0	_8	5	0	2	0	1	7
Biology	71	56	15	50	•	6	20	0	4	85
Chemistry	35	32	3	14		1	5 5	1	0	27
Communications	15	10	5	13	_	2	5 0	0	2	35
Cooperative Education	0	0	0	0	0	0	_	0	•	1
Data Processing Earth and Space	2	1	1	1	0	0	1	0	0	3
Science	15	12	3	13	4	2	7	0	0	28
English	120	88	32	58	14	12	29	1	2	109
Environmental Education	on 1	1	0	1	1	0	0	0	0	1
General Science	17	14	3	11	5	2	3	0	1	31
Marketing Marketing &	2	1	1	2	1	0	1	0	0	5
Distributive Educ.	2	1	1	5	3	0	1	1	0	. 7
Mathematics Office Technology	174 3	136 2	38 1	80 3	33 0	10 0	30 0	3 0	4 3	177 11
Physics	13	11	2	7	4	2	1	<u>o</u>	0	13
Physics and Mathematic		9	2	C	0	0	0	0	0	12
Secretarial	19	14	5	11	_7	2	1	0	1	16
Social Studies Vocational Education	125 4	88 4	37 0	136 0	50 0	20 0	59 0	2 0	5 0	164 38
K -1 2	397	282	115	269	94	64	89	8	14	398
Agriculture	0	0	0	0	ð	0	0	0	0	16
Art	58	45	13	35	11	4	18	0	2	37
Foreign Languages	52	41	11	27	5	9	10	1	2	39
Health	5	2	3	7	ż	4	1	0	0	13
Health and Physical Education	55	34	21	83	37	15	24	3	4	163
Home Economics	12	11	1	3	1	0	1	1	G	2
Industrial Arts	44	30	14	29	14	9	4	0	2	3
Library Science	19	15	4	8	1	6	1	0	0	14
Music	124	81	43	72	23	16	28	2	3	86
Reading Specialist	28	23	5	5	0	1	2	1	1	25
SPECIAL EDUCATION	318	204	114	138	32	60	30	6	10	231
Hearing Impaired Mentally/Physically	9	7	2	3	1	1	1	0	0	10
Handicapped Speech/Language	272	176	96	80	22	20	23	6	9	190
Inpaired	29	16	13	50	9	34	6	0	1	31
Visually Impaired	8		3	5		5	Ö	ŏ	Ö	0



TABLE 7 OUTLOOK OF TEACHER DEMAND IN PENNSYLVANIA--Concluded 1984-1995

		Employment		Annual Ave	rage Job Openings 198	4-1995	
Location/Oscupation	Estimated 1984	Projected	Change 1984-1995 Number Percent		Due to Growth	Due to Labor Force Separation 1/	Annual Average Total
Philadelphia MSA							
Preschool & Elementary Secondary	20 797 18 666	22 84 6 19 785	2 049 1 119	9.9 6.0	187 102	506 405	693 507
Pittsburgh HSA							
Preschool & Elementary Secondary	10 480 11 927	11 656 13 093	1 176 1 166	11.2 9.8	107 106	257 264	364 370
Reading MSA							
Preschool & Elementary Secondary	1 431 1 489	1 601 1 599	170 110	11.9 7.4	15 10	35 33	50 43
Scranton-Hilkes Barre MSA							
Preschool & Elementary Secondary	3 150 3 778	3 442 3 957	292 179	9.3 4.7	27 16	77 82	104 98
Sharon MSA			1				
Preschool & Elementary Secondary	526 847	576 925	50 78	9.5 9.2	5 7	13 19	18 26
State College MSA							
Preschool & Elementary Secondary	413 556	457 571	44 15	10.7 2.7	4	10 12	14 15
Hilliamsport HSA							
Preschool & Elementary Sacondary	480 560	495 592	15 32	3.1 5.7	1 3	11 12	12 15
York HSA							
Preschool & Elementary Secondary	1 947 2 005	2 199 2 181	252 176	12.9 8.8	23 16	48 44	71 60

^{1/} Labor force separations are due to death, retirement, disability, or withdrawl for personal reasons.

Note: State total includes areas not covered under listed MSA's.

Source: Pennsylvania Occupational Trends and Outlook for Total Civilian Employment, 1984 and Projected 1995, Pennsylvania Department of Labor and Industry



APPENDIX A

GLOSSARY

- BUSINESS EDUCATION--Includes graduates certified by individual subject area (accounting, data processing, distributive education, secretarial, and office technology) with most or all people receiving multiple certificates. For multiple certificated students, institutions were instructed to categorize into the one most likely to represent the employment area.
- ELEMENTARY--Includes persons prepared for the regular elementary certificate (K-6) or the early childhood certificate (N-3). Does not include those prepared for teaching in special education classes or those prepared for combined (K-12) certificates.
- INSTRUCTIONAL I--The initial teaching certificate awarded to those who are qualified to enter the teaching profession. The certificate expires after the completion of six years of teaching experience.
- K-12--Includes persons prepared for assignment at any grade level (K-12). Does not include those prepared for teaching in special education classes or those prepared for elementary (K-6) or secondary (7-12) certificates.
- MSA--Refers to a county or group of contiguous counties forming a metropolitan area based on criteria developed by the U.S. Census Bureau.
- SECONDARY--Includes persons prepared for assignments in junior and/or senior high school (7-12). Does not include those prepared for teaching in special education classes or those prepared for combined (K-12) certificates.
- SPECIAL EDUCATION--Includes persons prepared with the minimum certification requirements (or professional requirements) for entering assignments to teach the mentally deficient, deaf or hard of hearing, visually handicapped, speech handicapped, orthopodically handicapped, gifted and talented, emotionally disturbed, educationally disadvantaged, severely underachieving, and other pupils with characteristics which require special training competencies.
- VOCATIONAL EDUCATION--Includes persons who are certified to teach in areas of trade and industrial (occupational) education. Does not include industrial arts teachers (certificate code 6000).



APPENDIX B

SOURCES

- Occupations of Persons Completing Preparation for an Instructional I Certificate in Pennsylvania (PDE-4042).
- 2. Pennsylvania Occupational Trends and Outlock for Total Civilian Employment, 1984 and Projected 1995, Pennsylvania Department of Labor and Industry.



APPENDIX C

NONRESPONDENTS (data estimated)

Antioch University
Bryn Mawr College
Widener University

