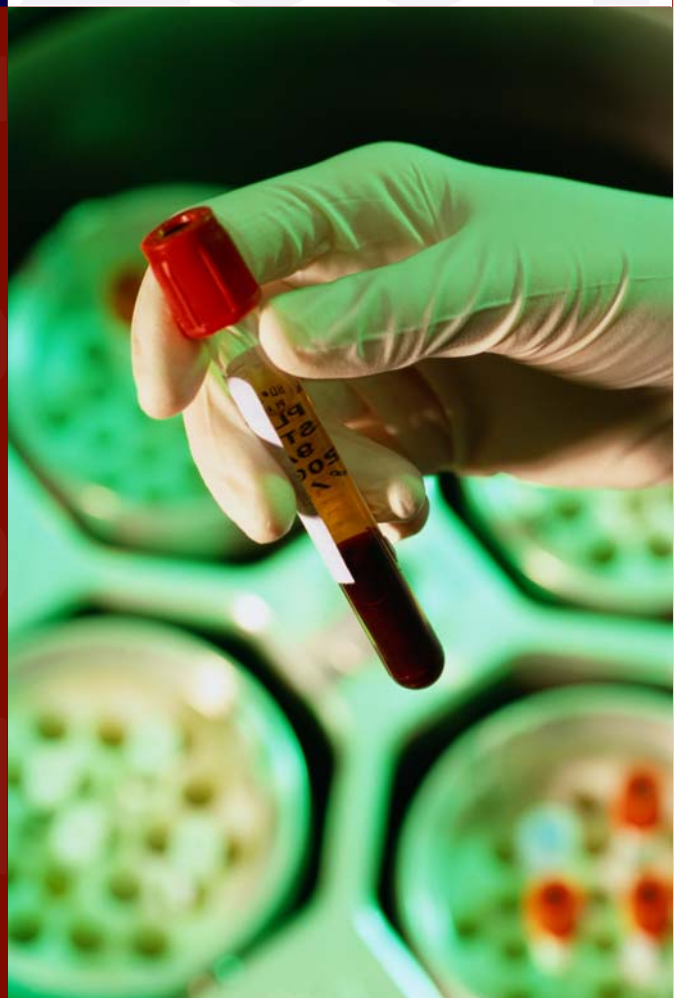


**WEST
VIRGINIA
HIGHER
EDUCATION
POLICY
COMMISSION**

HEALTH SCIENCES & RURAL HEALTH REPORT CARD 2004



1018 KANAWHA BOULEVARD EAST
SUITE 700
CHARLESTON, WV 25301

WEST VIRGINIA HIGHER EDUCATION POLICY COMMISSION

J. Michael Mullen, Chancellor

POLICY COMMISSION

Mary Clare Eros, Esq., Chair
Elliot G. Hicks, Esq., Vice Chair
Michael Garrison, Esq. Secretary
Richard Adams, Sr.
Kay H. Goodwin
R. Ken Hall
J. Thomas Jones
Nelson B. Robinson, Jr.
Terry R. Sammons, Esq.
Dr. David L. Stewart

1018 Kanawha Boulevard, East, Suite 700
Charleston, West Virginia 25301
Telephone: (304) 558-2101
FAX: (304) 558-5719
<http://www.hepc.wvnet.edu>





WEST VIRGINIA HIGHER EDUCATION POLICY COMMISSION

HEALTH SCIENCES AND RURAL HEALTH EDUCATION PARTNERSHIPS

HEALTH SCIENCES

Robert B. Walker, M.D.

Assistant Vice Chancellor for Health Sciences

Alicia Tyler

Program Coordinator

Hilda R. Heady

Executive Director

Rural Health Education Partnerships

Area Health Education Centers

West Virginia University Office of Rural Health

1018 Kanawha Boulevard, East, Suite 700
Charleston, West Virginia 25301
Telephone: (304) 558-2101
FAX: (304) 558-5719
<http://www.hepc.wvnet.edu>



HIGHLIGHTS

- Almost 37% of West Virginia's medical school graduates are staying in the state after completing residency training.
- Retention of state medical school graduates who complete residency training in West Virginia is even higher – 74% in primary care fields such as family practice.
- In the past 8 years, the greatest change has been in retention of medical graduates in primary care fields. Their numbers have increased from 168 to 262, a gain of 56%.
- About 73% of West Virginia's dental graduates are staying in the state. This year the retention of pharmacy graduates dropped from 68% to 54%, primarily because of a recruitment effort by a large out-of-state drug chain.
- The Health Sciences & Technology Academy (HSTA) program has prepared 2,068 high school students for health careers. The college-going rate for HSTA graduates is 95%; 121 HSTA students have graduated from college; and six are currently in medical school.
- The State Rural Health Advisory Panel approved a merger and consolidation plan for the Rural Health Education Partnerships (RHEP) that calls for the reduction of 13 consortia to 7 by July 1, 2005. These changes are designed to gain greater efficiencies while maintaining and improving program quality.
- This year RHEP provided 100,231 community service contacts, including health fairs, health screenings, flood relief clinics, tobacco awareness, sports physicals and oral hygiene. In recent years, the number of contacts has declined, most likely because of changes in reporting definitions and school curricula, and a reduction of staff at rural sites.
- This year RHEP dental and dental hygiene students provided 12,032 clinical procedures, compared to 8,696 the previous year, an increase of 38%. RHEP dental sites provided almost \$1 million in uncompensated care.
- The CARDIAC program expanded to 54 counties and screened nearly 10,000 children and some parents. The CARDIAC program has received state and national awards.
- In 1991 West Virginia began developing rural training sites for health professions students. Since then, 661 graduates in health fields, including 165 physicians, began and are continuing to practice in rural West Virginia. Other fields include nurse practitioners, physician assistants, dentists, and pharmacists.
- State scholarships and loan repayment are helping to recruit rural providers – 39% of the physicians, 53% of the nurse practitioners, and 47% of the physician assistants recruited since 1991 and currently practicing in rural West Virginia.
- In the past 6 years, the number of physicians in rural practice who participated in the RHEP program increased from 88 to 165, an increase of 88%, or an average annual rate of 13.4%.



TABLE OF CONTENTS

	MEDICAL SCHOOL ENROLLMENT
1	West Virginia University Health Sciences Center
2	Marshall University School Of Medicine
3	West Virginia School of Osteopathic Medicine
	MEDICAL SCHOOL GRADUATES
4	Performance on Medical Licensure Exams
4	Primary Care Trends
	RETENTION
5	WV Medical School Graduates, 1994-99, by School
6	WV Medical School Graduates
7	WV Medical Graduates, 1994-99, all Specialties
8	WV Medical Graduates, 1994-99, in Primary Care
9	WV Medical Graduates, 1994-99, in Non-Urban Areas
10	WV Medical Graduates Completing WV Primary Care Residencies
11	Health Sciences Graduates, 2000-2004
12	MEDICAL STUDENT INDEBTEDNESS
13	SCHOLARSHIPS AND LOANS
14	HEALTH CAREER PATHWAY
	RURAL HEALTH EDUCATION PARTNERSHIPS
15-16	Rural Health Education Partnerships Maps
17	FIELD FACULTY AND TRAINING SITES
18-19	TRAINING CONSORTIA INFRASTRUCTURE
	STUDENT ROTATIONS
20	RHEP Student Rotations by Year
21	RHEP Rotations by Year/Discipline
21	RHEP Student Weeks by Year/Discipline
22	Rotations by County: June 1, 2003 - May 31, 2004
23	Rotations by School/Discipline: June 1, 2003 - May 31, 2004
	COMMUNITY SERVICE CONTACTS
24	Community Service Contacts by Year, 1999-2004
25	Contacts by Consortia: June 1, 2003 - May 31, 2004
	RECRUITMENT
26	Health Professionals Recruited to Rural Areas
27	Recent WV Medical Graduates Practicing in Rural Areas



MEDICAL SCHOOL ENROLLMENT

1

West Virginia University Health Sciences Center

	1999-00	2000-01	2001-02	2002-03	2003-04
Applicants					
In-State	291	284	241	223	228
Total	998	834	787	736	845
Acceptances Issued					
In-State	101	120	104	108	116
Total	104	126	119	130	164
First Year New Enrollment					
In-State	83	87	81	87	82
Total	83	90	90	99	110
Total Medical Students	356	358	349	375	376
<i>Entering Class Data</i>					
Mean GPA	3.7	3.6	3.7	3.7	3.7
Mean MCAT Scores					
Biology/Biological Science	9.1	9.2	9.5	8.8	9.4
Physics/Physical Science	8.9	8.6	9.2	8.9	8.7
Reading/Verbal Reasoning	9.0	8.9	9.0	9.4	9.1
Median Writing Sample	P	O	O	N	O

COMMENTARY

Average scores for the Medical College Admission test (MCAT) are reported as "means" for the multiple-choice sections and "medians" for the Writing Sample. Test Scores on the multiple-choice sections are on a scale of 1-15 and a scale of J-T on the Writing Sample. The national averages for students entering allopathic medical schools in 2003-04 were:

Biological Science: 10.2
Physical Science: 9.9
Verbal Reasoning: 9.5
Writing Sample: P

The national mean GPA was 3.62

Source: Association of American Medical Colleges.



WEST VIRGINIA
HIGHER EDUCATION
POLICY COMMISSION

MEDICAL SCHOOL ENROLLMENT

2

Marshall University School of Medicine

	1999-00	2000-01	2001-02	2002-03	2003-04
Applicants					
In-State	293	259	228	197	209
Total	941	893	786	696	711
Acceptances Issued					
In-State	74	70	86	93	85
Total	77	72	95	101	96
First Year New Enrollment					
In-State	47	46	45	45	47
Total	48	48	48	48	53
Total Medical Students	209	207	198	194	199
<i>Entering Class Data</i>					
Mean GPA	3.5	3.5	3.5	3.6	3.5
Mean MCAT Scores					
Biology/Biological Science	9.3	9.2	8.8	9.2	8.9
Physics/Physical Science	8.7	8.4	8.6	8.4	8.7
Reading/Verbal Reasoning	9.2	9.2	9.5	8.9	8.9
Median Writing Sample	O	P	P	P	O

COMMENTARY

Average scores for the Medical College Admission test (MCAT) are reported as "means" for the multiple-choice sections and "medians" for the Writing Sample. Test Scores on the multiple-choice sections are on a scale of 1-15 and a scale of J-T on the Writing Sample. The national averages for students entering allopathic medical schools in 2003-04 were:

Biological Science: 10.2
Physical Science: 9.9
Verbal Reasoning: 9.5
Writing Sample: P

The national mean GPA was 3.62

Source: Association of American Medical Colleges.



WEST VIRGINIA
HIGHER EDUCATION
POLICY COMMISSION

MEDICAL SCHOOL ENROLLMENT

3

West Virginia School of Osteopathic Medicine

	1999-00	2000-01	2001-02	2002-03	2003-04
Applicants					
In-State	182	184	171	146	156
Total	1,493	1,553	1,408	1,372	1,432
Acceptances Issued					
In-State	68	69	68	66	79
Total	157	155	149	179	267
First Year New Enrollment					
In-State	50	53	54	51	50
Total	75	77	80	81	103
Total Medical Students	274	285	296	306	336
<i>Entering Class Data</i>					
Mean GPA	3.4	3.5	3.5	3.5	3.4
<i>Mean MCAT Scores</i>					
Biology/Biological Science	7.2	7.4	7.4	7.4	7.5
Physics/Physical Science	7.0	7.2	7.0	6.8	7.0
Reading/Verbal Reasoning	7.9	7.9	7.9	7.8	7.8
Median Writing Sample	N/A	N/A	N/A	N/A	N/A

COMMENTARY

Average scores for the Medical College Admission test (MCAT) are reported as "means" for the multiple-choice sections and "medians" for the Writing Sample. Test Scores on the multiple-choice sections are on a scale of 1-15 and a scale of J-T on the Writing Sample. The national averages for students entering osteopathic medical schools in 2003-04 were:

Biological Science: 8.5
Physical Science: 8.0
Verbal Reasoning: 8.1
Writing Sample: 0

The national mean GPA was 3.45

Source: The American Association of Colleges of Osteopathic Medicine.



WEST VIRGINIA
HIGHER EDUCATION
POLICY COMMISSION

Number of Examinees/Number Passing USMLE Step 3

	1999-00	2000-01	2001-02	2002-03	2003-04
West Virginia University	76/76 (100%)	83/81 (98%)	65/65 (100%)	69/65 (94%)	71/68 (96%)
Marshall University	51/50 (98%)	43/40 (93%)	50/47 (94%)	39/33 (85%)	46/43 (93%)

All data are for first-time test takers. Data for MD students are based on the US Medical Licensing Exam (USMLE), Step 3. Data for MD students becomes available two years after graduation, i.e., results for 2001 graduates are shown in 2003-04. The national average for this cohort was 96%.

Number of Examinees/Number Passing COMLEX-Level 3

	1999-00	2000-01	2001-02	2002-03	2003-04
WV School of Osteopathic Medicine	70/61 (87%)	59/54 (92%)	56/55 (98%)	51/50 (98%)	73/67 (92%)

Licensing Examination (COMLEX), Level 3. Results are for 2004 graduates. The national average for this cohort was 90%.

Medical School Graduates Choosing Primary Care Residencies*

	1999-00	2000-01	2001-02	2002-03	2003-04**
West Virginia University	51 (63%)	54 (58%)	39 (48%)	46 (48%)	32 (46%)
Marshall University	32 (74%)	34 (67%)	34 (72%)	32 (68%)	29 (73%)
WV School of Osteopathic Medicine	44 (71%)	39 (64%)	40 (63%)	48 (67%)	N/A***
TOTAL	127	127	106	126	

*Primary care includes family medicine, internal medicine, pediatrics, internal medicine/pediatrics, and obstetrics/gynecology.

**In 2004, the national average for choice of primary care residencies was 49.2% for all allopathic graduates.

***Osteopathic students enter a one-year rotating internship after graduation. Thus, their data lags one year behind the allopathic graduates. In 2003, 40 (63%) of WVSOM 2002 graduates chose primary care residencies. The national average is not available.



RETENTION

5

Medical School Graduates in West Virginia (MD and DO), 1994-1999

Institutions	Total Number of Graduates	Graduates with Completed Training			
		Total Number	Number in Practice in WV	Number in Primary Care in WV*	Number in Practice in Non-Urban Areas in WV **
West Virginia University	484	451	166 (36.8%)	98 (21.7%)	25 (5.5%)
Marshall University	291	274	106 (38.6%)	65 (23.7%)	28 (10.2%)
WV School of Osteopathic Medicine	312	312	110 (35.2%)	99 (31.7%)	54 (17.3%)
TOTAL	1,087	1,037	382 (36.8%)	262 (25.2%)	107 (10.3%)

Note: Excludes SREB contract students at WVSOM who have a contractual obligation to return to their home state following graduation.

*Primary Care is defined as family medicine, internal medicine, pediatrics, internal medicine/pediatrics, and obstetrics/gynecology.

**Non-urban areas exclude graduates practicing in: Beckley, Charleston (including South Charleston, Dunbar, Nitro, Institute, etc.), Clarksburg, Fairmont, Huntington (including Barboursville), Hurricane, Martinsburg, Morgantown (including Star City and Westover), Parkersburg (including Vienna), Weirton, and Wheeling.

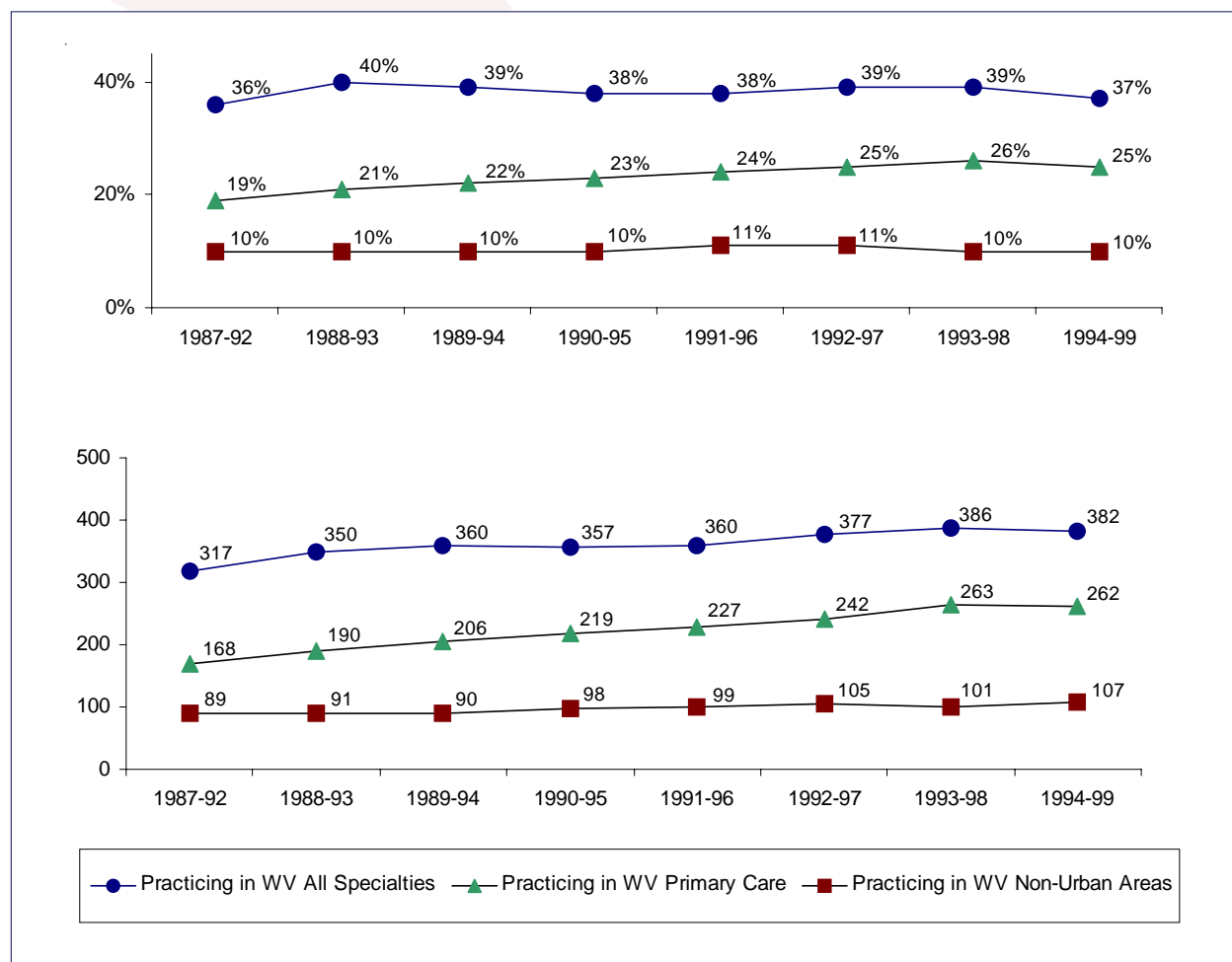
COMMENTARY

A total of 1,037 students graduating from WV medical schools between 1994 and 1999 have completed their residency training. Thirty seven percent of these graduates are practicing in West Virginia, and approximately 10% are practicing in rural areas. In tracking the retention of graduates, this report factors in the additional 3 to 5 years of residency training that physicians complete in their specialty before beginning practice. The table, chart, and maps on pages 5-9 present data on graduates from 1994-1999.



WEST VIRGINIA
HIGHER EDUCATION
POLICY COMMISSION

West Virginia Medical School Graduates



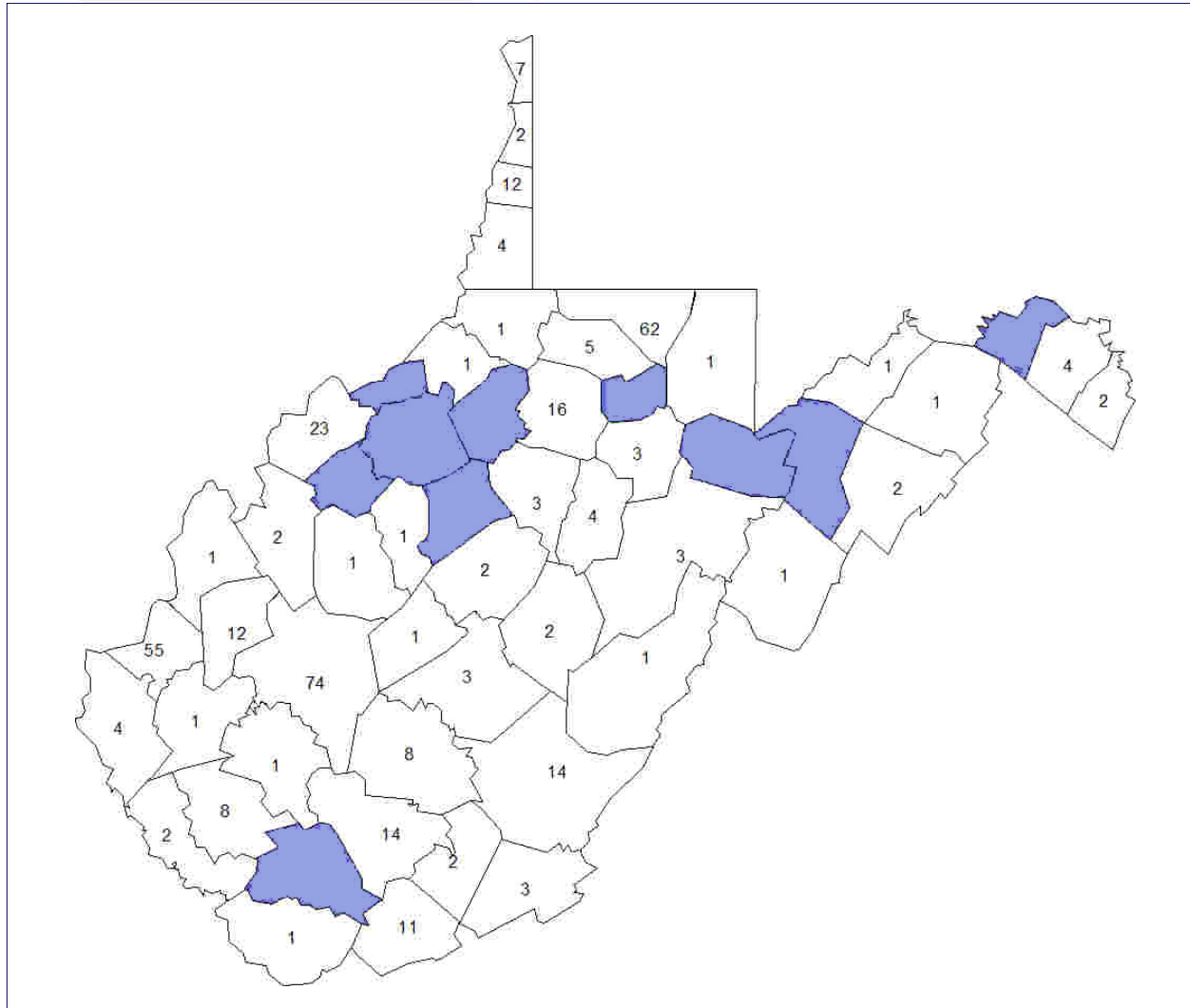
Retention is tracked annually for a rolling 6-year cohort of medical school graduates who have completed residency training. The greatest change has been in retention of graduates in primary care fields. In the past 8 years, their numbers have increased by 56% from 168 to 262. The percentage of total graduates retained in primary care has increased from 19% to 25%.



RETENTION

7

WV Medical Graduates, 1994-99, in All Specialties



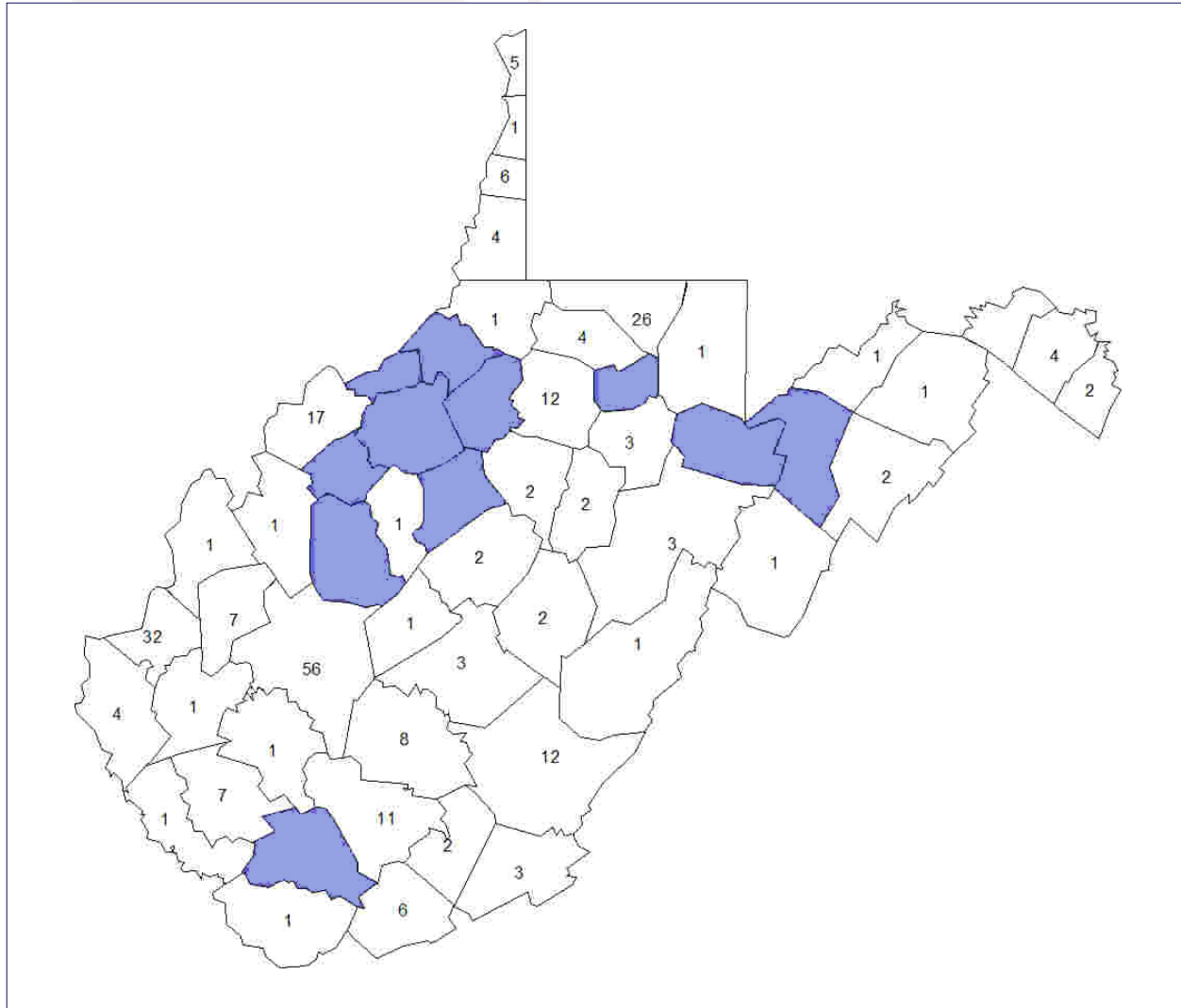
The map shows total graduates of WV medical schools from 1994-99 who are practicing in each county. The statewide total is 382 (37%).

The shaded counties have no graduates from 1994-99 practicing.

RETENTION

8

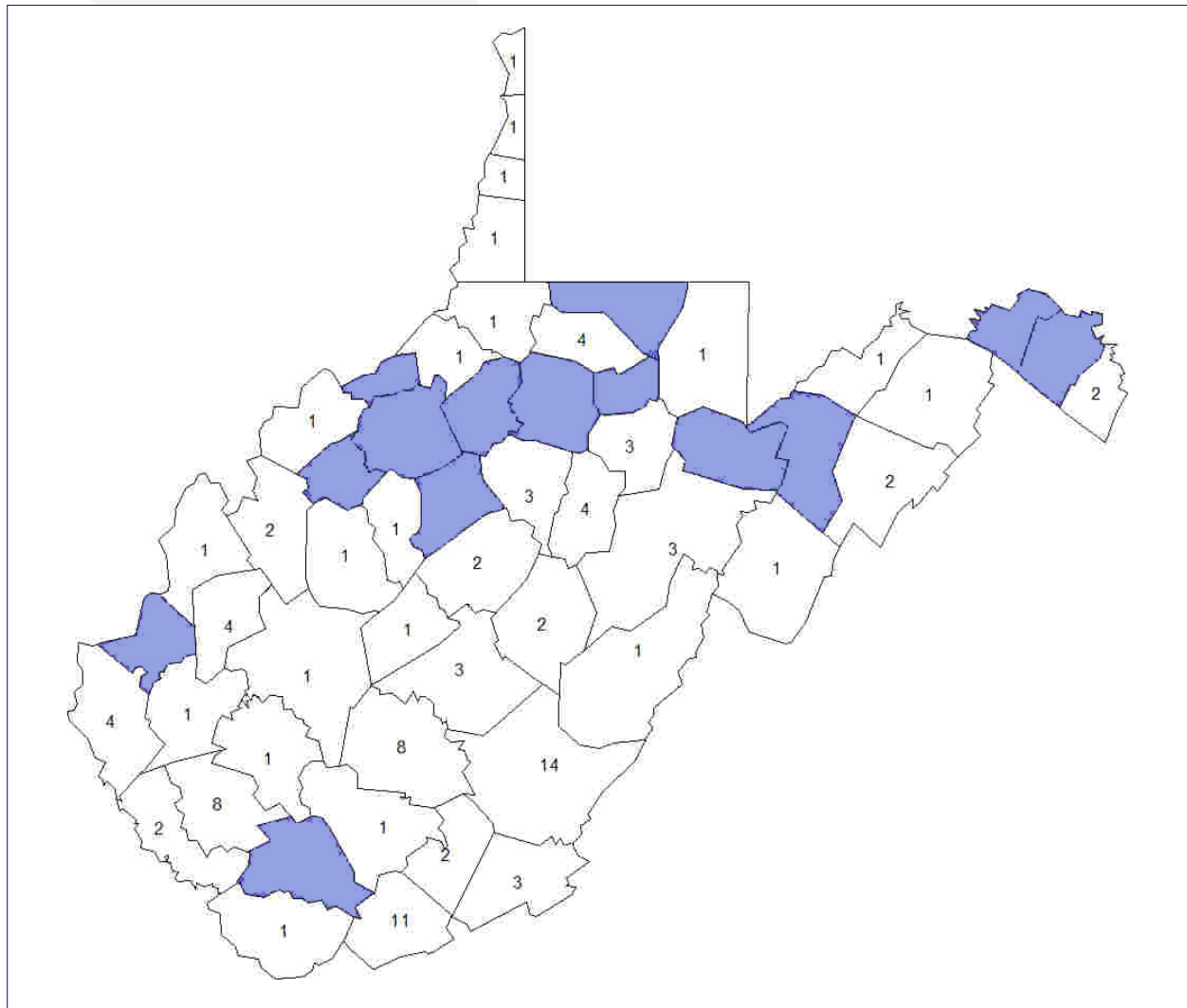
WV Medical Graduates, 1994-99, in Primary Care



The map shows total graduates from WV medical schools from 1994-99 who are practicing in primary care in each county. The statewide total is 262 (25%). Primary care is defined as family medicine, internal medicine, pediatrics, internal medicine/pediatrics, and obstetrics/gynecology.

Shaded counties have no graduates from 1994-99 practicing in primary care.

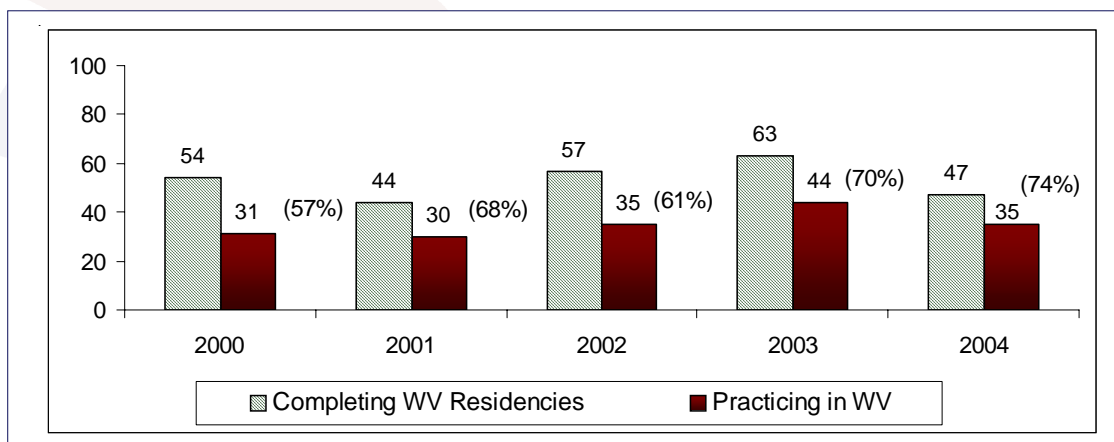
WV Medical Graduates, 1994-99, in Non-Urban Areas



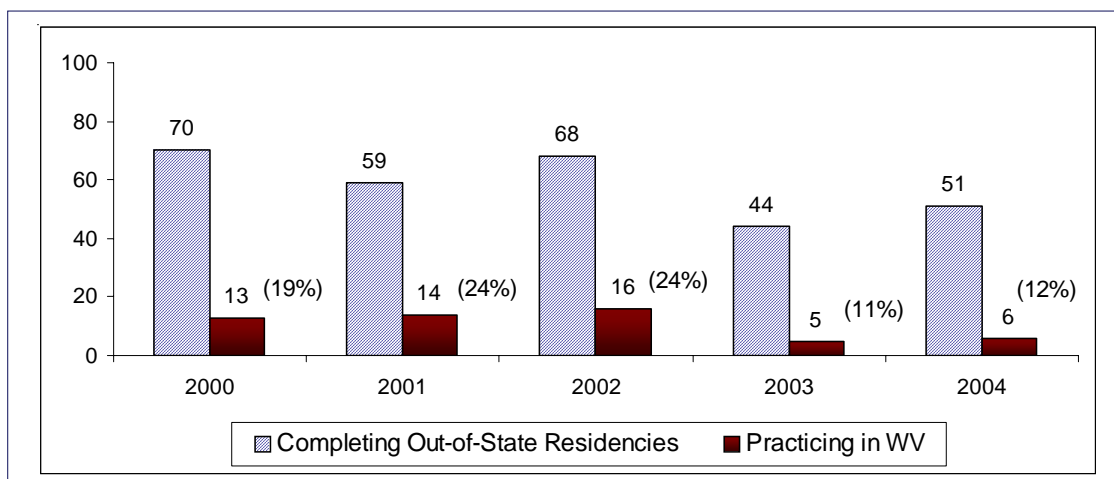
The map shows total graduates of WV medical schools from 1994-99 who are practicing in non-urban areas of each county. The statewide total is 107 (10%). The map excludes graduates practicing in Beckley, Charleston (including South Charleston, Dunbar, Nitro, Institute, etc.), Clarksburg, Fairmont, Huntington (including Barboursville), Hurricane, Martinsburg, Morgantown (including Star City and Westover), Parkersburg (including Vienna), Weirton, and Wheeling.

Shaded counties have no graduates from 1994-99 practicing in non-urban areas.

WV Medical Graduates Completing WV Primary Care Residencies



WV Medical Graduates Completing Out-Of-State Primary Care Residencies



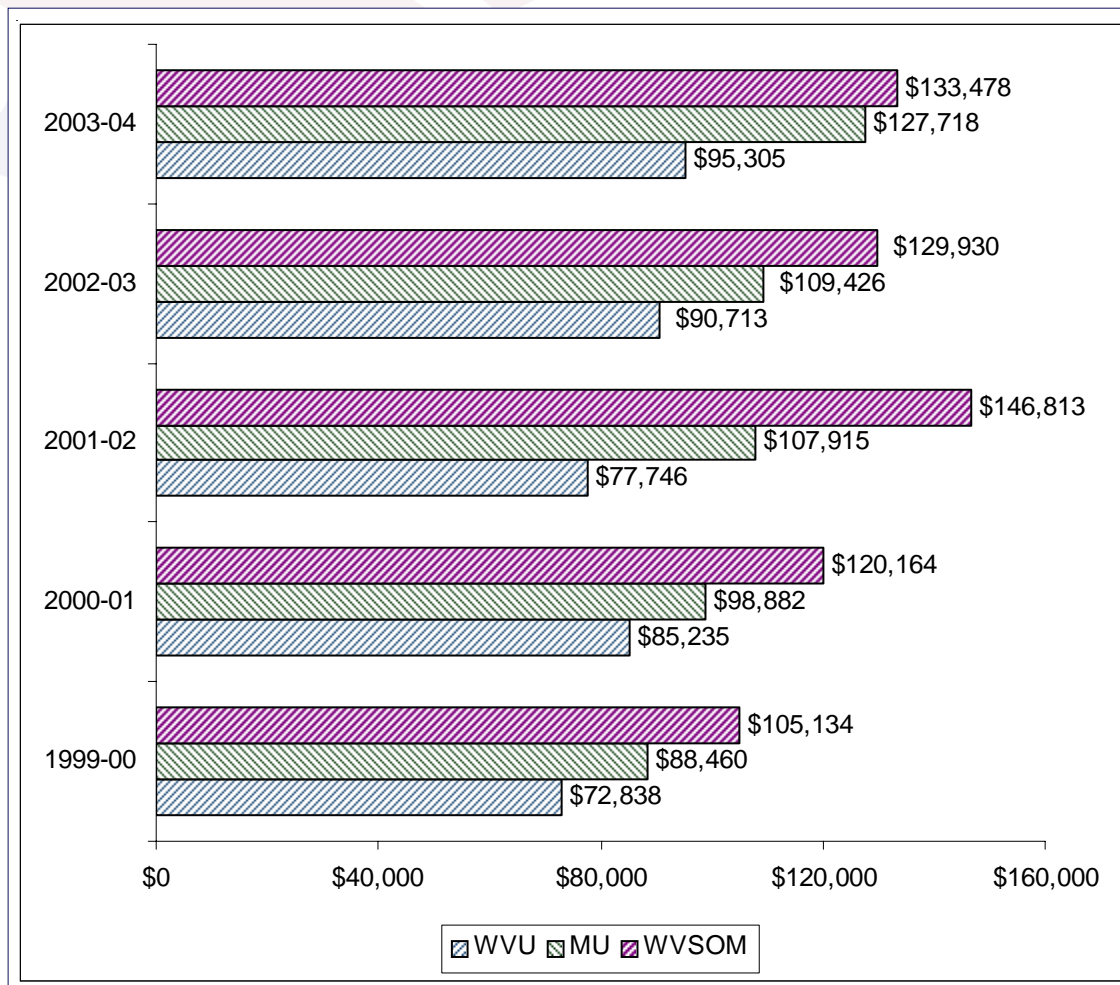
Medical school graduates begin practice after completing 3 to 5 years of residency training in a given specialty. Two factors are important in tracking their retention: (1) specialty choice, because primary care fields are most needed in rural West Virginia; and (2) location of the residency, because graduates who complete residencies in West Virginia are more likely to practice in the state.



Health Sciences Graduates, 2000-2004

	2000	2001	2002	2003	2004
West Virginia University					
Dental	37	40	35	34	37
Practicing in WV	13 (35%)	24 (60%)	16 (46%)	27 (80%)	27 (73%)
Pharmacy	46	49	60	71	65
Practicing in WV	35 (76%)	37 (76%)	41 (68%)	48 (68%)	35 (54%)
Nurse Practitioner	30	26	17	12	32
Practicing in WV	26 (87%)	24 (92%)	13 (76%)	10 (83%)	28 (88%)
Marshall University					
Nurse Practitioner	16	15	11	11	11
Practicing in WV	12 (81%)	11 (73%)	9 (82%)	10 (91%)	5 (45%)





This chart shows the average indebtedness of final year medical students.

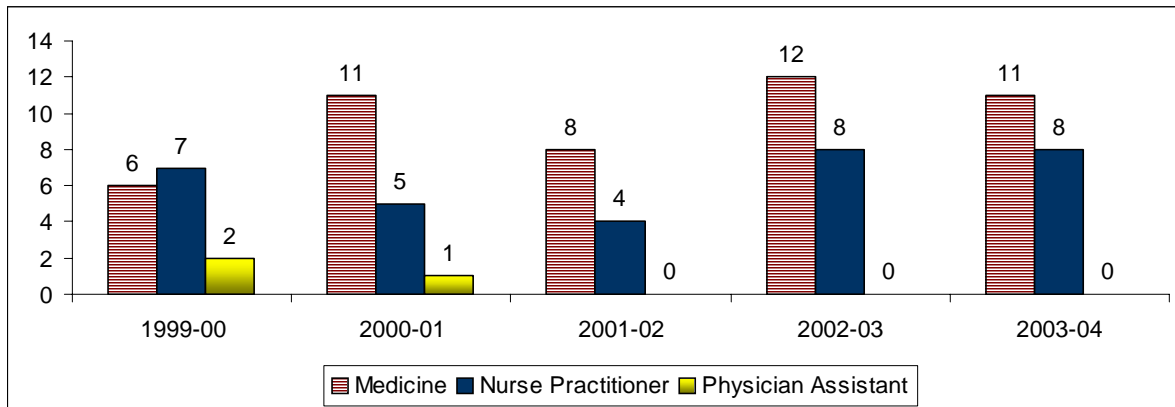
COMMENTARY

COMMENTARY



WEST VIRGINIA
HIGHER EDUCATION
POLICY COMMISSION

Health Sciences Scholarship Awards Accepted¹



1. The Health Sciences Scholarship Program provides an incentive for students to practice in underserved areas of West Virginia. Medical students receive a \$20,000 award for a two-year service commitment. Other disciplines receive a \$10,000 award.

Medical Student Loan Program²

	1999-00	2000-01	2001-02	2002-03	2003-04
Loans Awarded	258	370	283	289	291
Total Amount Awarded	\$1,156,286	\$1,189,500	\$1,225,000	\$1,246,500	\$1,354,228
Amount of Unexpended Funds	\$581,336	\$995,697	\$1,498,494	\$2,039,706	\$2,296,022
Loan Forgiveness	19	10	20	13	21
Default Rate on Previous Awards	3.5%	2.7%	2.9%	2.5%	2.5%

2. The Medical Student Loan Program, a component of the Health Education Student Loan Program, is a need-based program to assist state medical students. It is funded from medical student fees, and borrowers may earn loan forgiveness for practicing in an underserved area or in a medical shortage field in West Virginia. The unexpended funds include loan repayments. This year the HEPC approved a proposed rule change to allow the schools to increase loans from \$5,000 to \$10,000 so that these funds will be utilized.



Health Sciences and Technology Academy

Number of Students Currently Served	Number of Teachers Participating	Number of High School Graduates to Date, 1998-2004	Percentage of High School Graduates to Enter College	Percent to major in Health Sciences & Technology in College
746	76	580	95%	59%

Program Outcomes

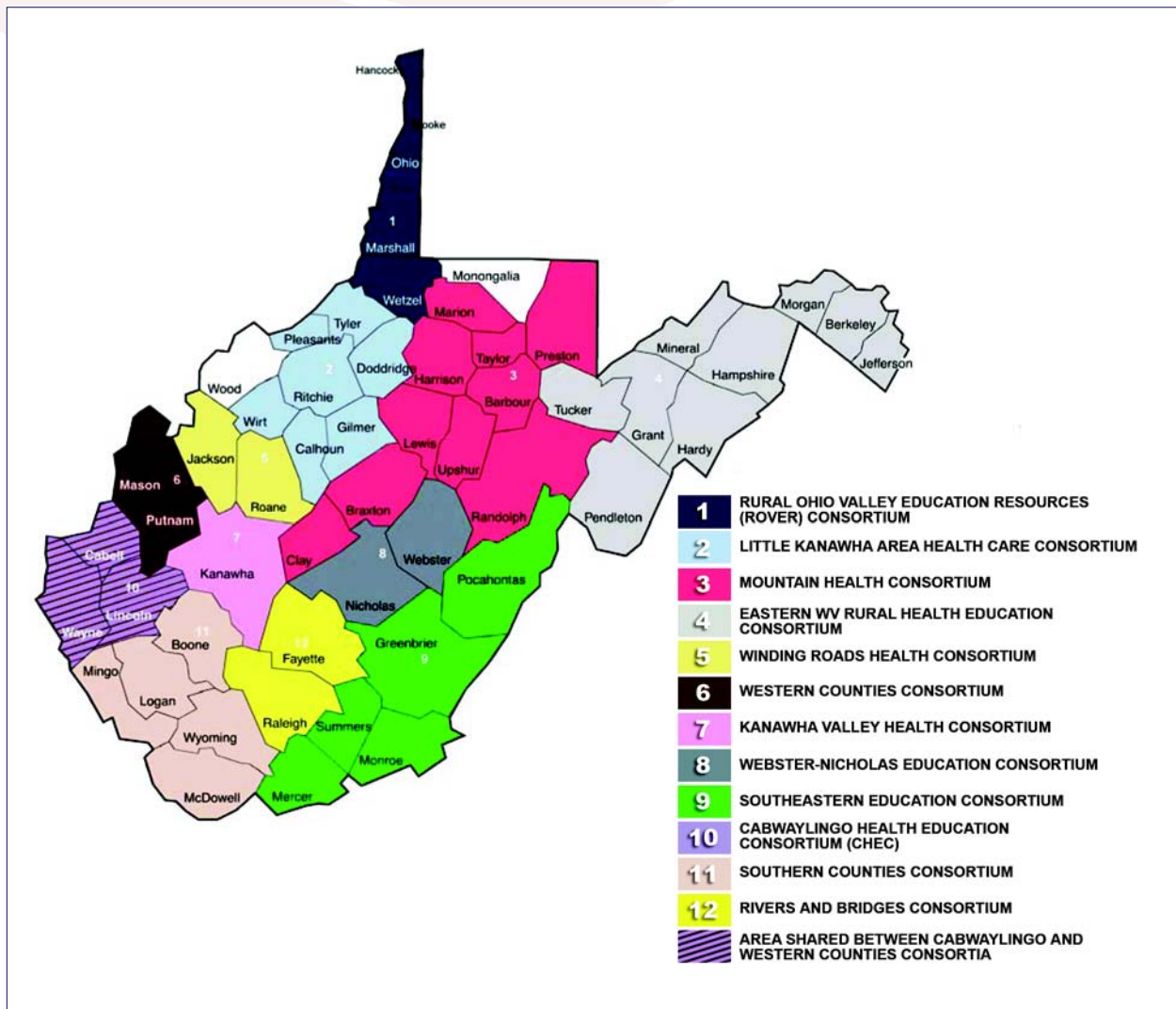
- 2,068 students have been served by HSTA since 1994.
- 121 HSTA students have graduated from college; 14 (11.5%) are now enrolled in health sciences graduate programs or professional schools.
- Six HSTA students are currently in medical school.

COMMENTARY

The Health Sciences and Technology Academy (HSTA) reaches out to minority and disadvantaged students in 26 counties and helps them prepare for higher education and health careers. Students from the 9th-12th grade progress through 4 years of training with local teachers and campus-based faculty.

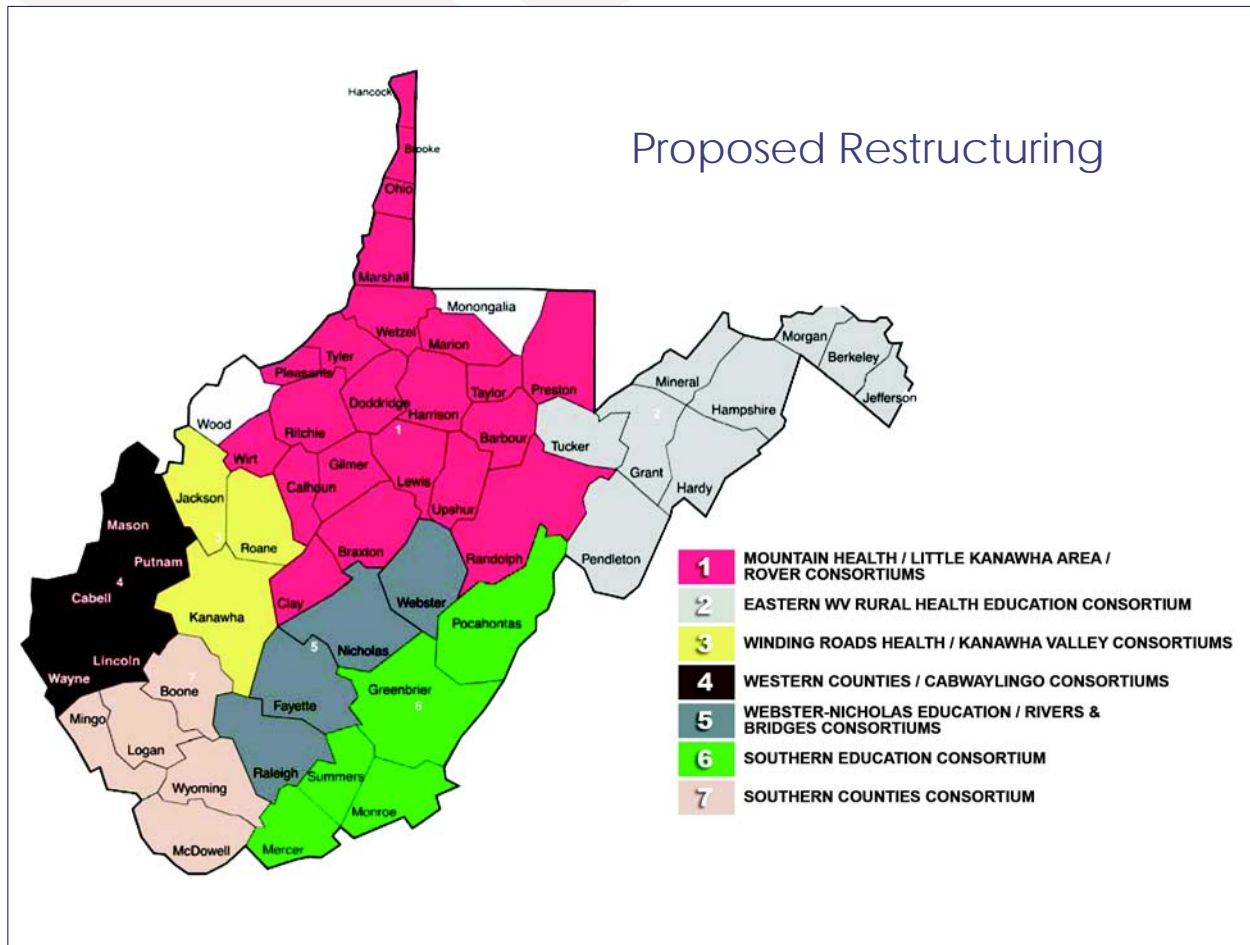


WEST VIRGINIA
HIGHER EDUCATION
POLICY COMMISSION

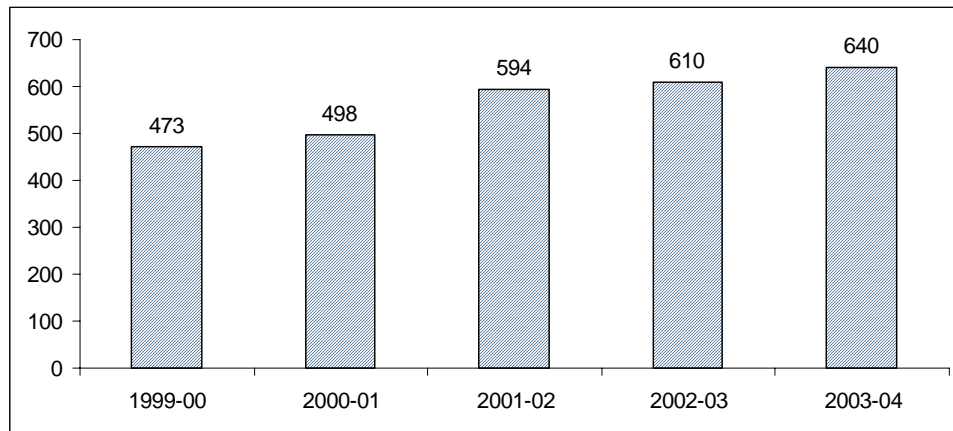


In 1995 RHEP maintained 13 training consortia. This year two consortia merged, resulting in 12 consortia statewide. In 2004-05 reductions in staff as well as mergers and consolidations will result in 7 consortia. These changes are designed to gain greater efficiencies while maintaining and improving the quality of educational experiences for trainees.

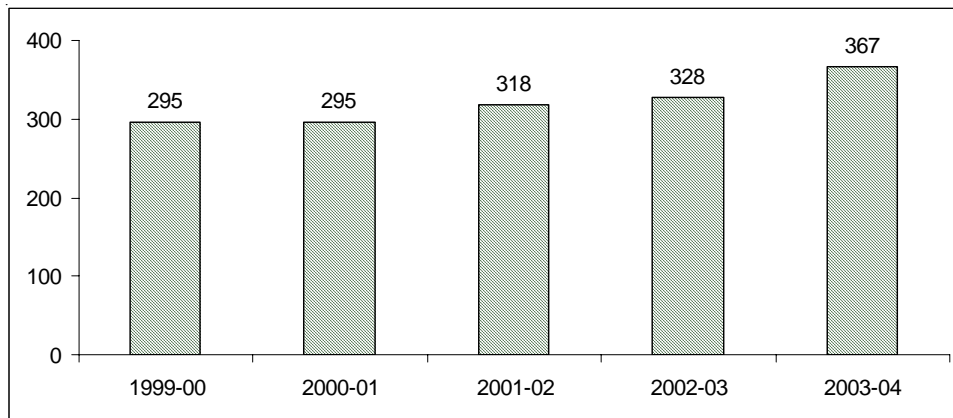




RHEP Field Faculty



RHEP Training Sites



West Virginia RHEP field faculty are rural practitioners who also teach students. In 2004, the Faculty Development Conference was held jointly with Area Health Education Centers and the Mountain State Geriatric Education Center. The theme was "Learning, Teaching and Serving West Virginia." A total of 131 field faculty members attended.



Consortium Lead Agency and Subsites	Counties	Number of Training Sites	Number of Field Faculty	
Kanawha Valley Health Consortium <i>Cabin Creek Health Center</i>	Underserved areas of Kanawha	15	7 Medicine 2 Dental	3 Pharmacy 4 Nurse Practitioner 3 Nursing
Cabwayingo Health Education Consortium <i>Ft. Gay Family Health Center</i>	Cabell, Wayne, and Lincoln	14	14 Medicine 5 Dental 4 Nurse Practitioner 4 Nursing	1 Pharmacy 2 Physician Assistant
Eastern WV Rural Health Education Consortium <i>Grant Memorial Hospital</i>	Grant, Hardy, Hampshire, Mineral, Pendleton, and Tucker	33	31 Medicine 3 Dental 1 Physician Assistant 1 Occupational Therapy 1 Social Work	8 Pharmacy 10 Nursing 3 Nurse Practitioner 4 Physical Therapy 1 Clinical Psychology
	Berkeley, Jefferson, and Morgan	17	28 Medicine 2 Dental	9 Nursing 7 Physical Therapy 14 Pharmacy
Little Kanawha Area Consortium	Calhoun, Doddridge, Gilmer, Pleasants, Ritchie, Tyler, and Wirt	18	14 Medicine 1 Dental 1 Physician Assistant	7 Pharmacy 4 Nursing 4 Nurse Practitioner
Mountain Health Partners Consortium <i>St. Joseph's Hospital</i>	Barbour, Lewis, Randolph, and Upshur	43	37 Medicine 3 Dental 1 Medical Technology 10 Pharmacy 1 Social Work	5 Nursing 10 Physical Therapy 1 Certified Nurse-Midwife 1 Nurse Practitioner
	Braxton and Clay	15	8 Medicine 3 Dental 1 Physician Assistant	6 Nursing 1 Physical Therapy 1 Pharmacy
	Taylor, Harrison, Preston, and Marion	64	18 Medicine 12 Dental 1 Social Work 8 Pharmacy Certified Nurse- 2 Midwife 2 Physician Assistant	32 Nursing 1 Nurse Practitioner 8 Physical Therapy 2 Medical Technology 1 Occupational Therapy



Consortium Lead Agency and Subsites	Counties	Number of Training Sites	Number of Field Faculty	
Rivers and Bridges Consortium <i>New River Health Association, Inc.</i>	Fayette and Raleigh	11	13 Medicine 2 Dental 4 Physician Assistant 2 Social Work	2 Nurse Practitioners 3 Pharmacy 4 Nursing 1 Certified Nurse- Midwife
Rural Ohio Valley Education Resources (ROVER) Consortium <i>Cameron Community Health Center</i>	Wetzel, Brooke, Hancock, Marshall and Ohio	17	7 Medicine 2 Dental 2 Physical Therapy	8 Nursing 1 Nurse Practitioner 5 Pharmacy
Southern Counties Consortium	Boone, Logan, McDowell, Mingo, and Wyoming	23	27 Medicine 2 Dental 2 Physician Assistant	3 Pharmacy 2 Nursing 6 Nurse Practitioner
Southeastern Counties Consortium	Greenbrier, Mercer, Monroe, Summers, and Pocahontas	37	46 Medicine 3 Dental 1 Physician Assistant 8 Physical Therapy	5 Pharmacy 4 Nursing 2 Nurse Practitioner 1 Social Work
Webster-Nicholas Education Consortium <i>Camden-on-Gauley Medical Center</i>	Webster and Nicholas	7	10 Medicine 1 Dental 1 Physician Assistant	3 Pharmacy 1 Nursing 1 Physical Therapy
Western Counties Consortium <i>Pleasant Valley Hospital</i>	Lincoln, Mason, Putnam, Wayne, and rural Cabell	38	37 Medicine 2 Dental 3 Pharmacy	2 Nursing 1 Physical Therapy
Winding Roads Health Science Consortium <i>Roane County Family Health Care</i>	Roane and Jackson	15	13 Medicine 3 Dental 7 Pharmacy 2 Physical Therapy	1 Nursing 1 Certified Nurse Midwife 4 Nurse Practitioner
	Total Training	367	310 Medicine 46 Dental 15 Physician Assistant 3 Medical Technology 1 Clinical Psychology 6 Social Work	81 Pharmacy 95 Nursing 32 Nurse Practitioner 44 Physical Therapy 2 Occupational Therapy 5 Certified Nurse- Midwife
			Field Faculty Total	640

The RHEP training infrastructure covers the most underserved areas of 53 counties. Training sites include rural hospitals; health centers; private physician offices; dental offices; pharmacies; public health departments; human service agencies; mental health centers; schools; and other health care organizations (e.g., home health).

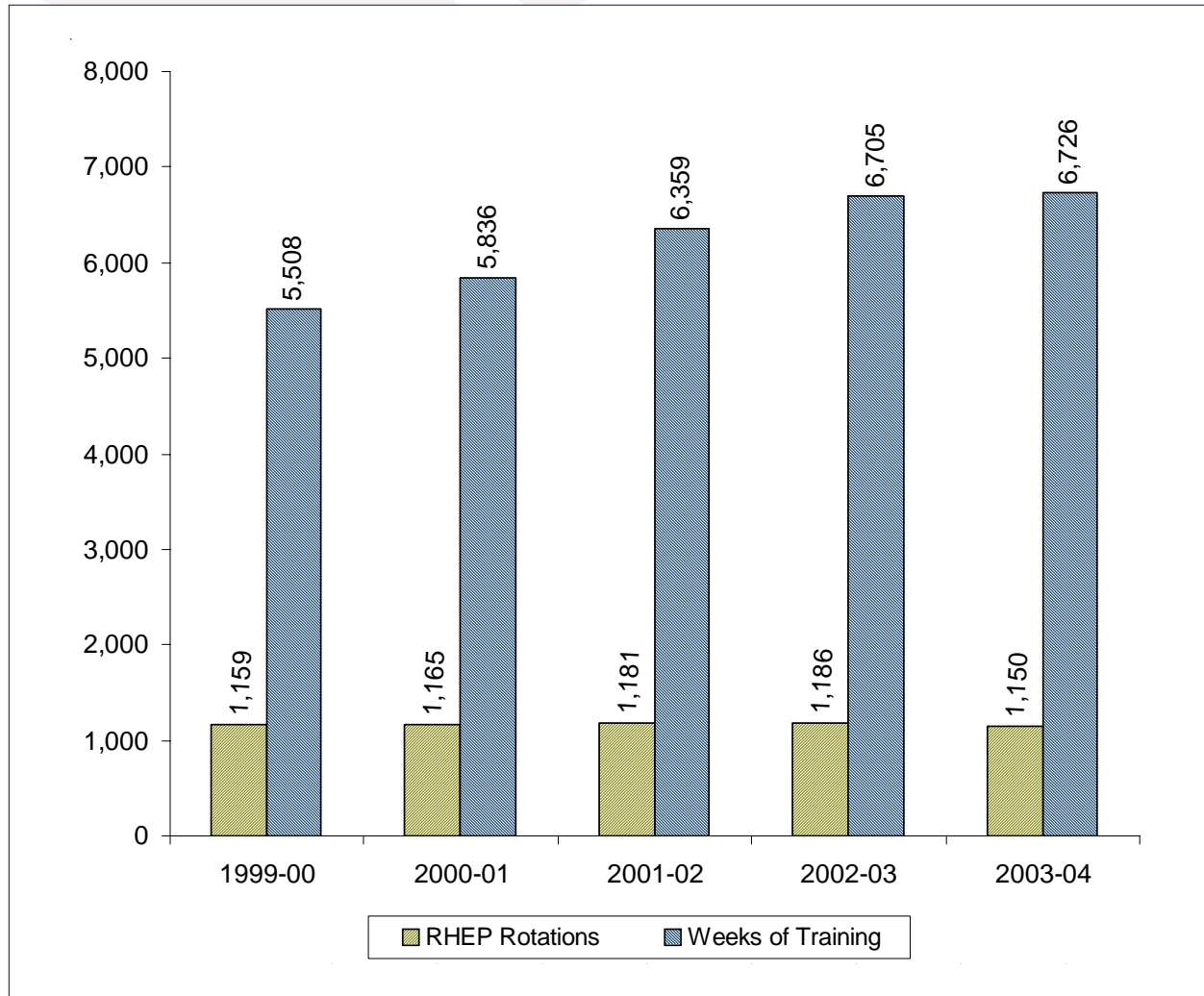
See Page 16 for proposed changes to the infrastructure in 2005.



STUDENT ROTATIONS

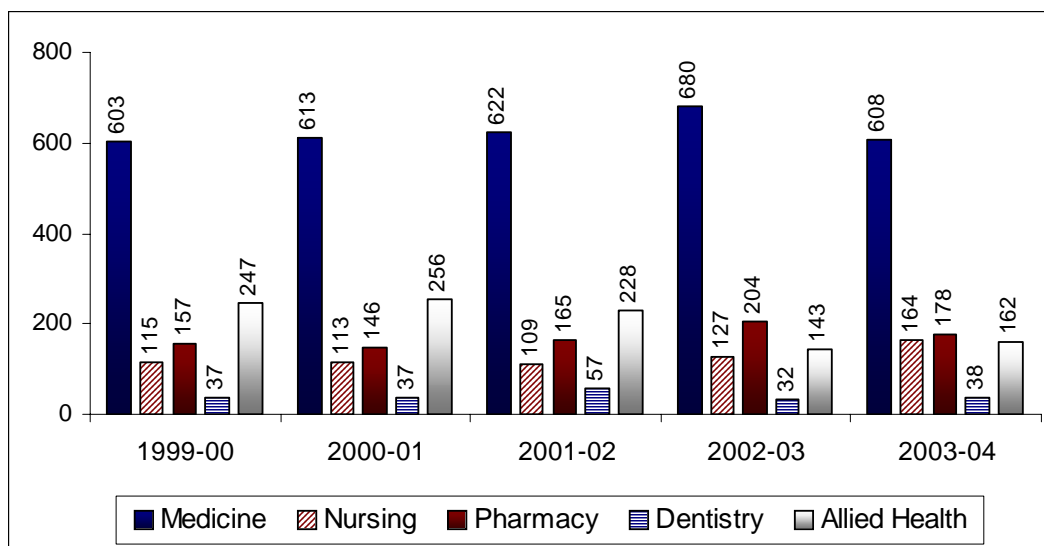
20

RHEP Student Rotations by Year

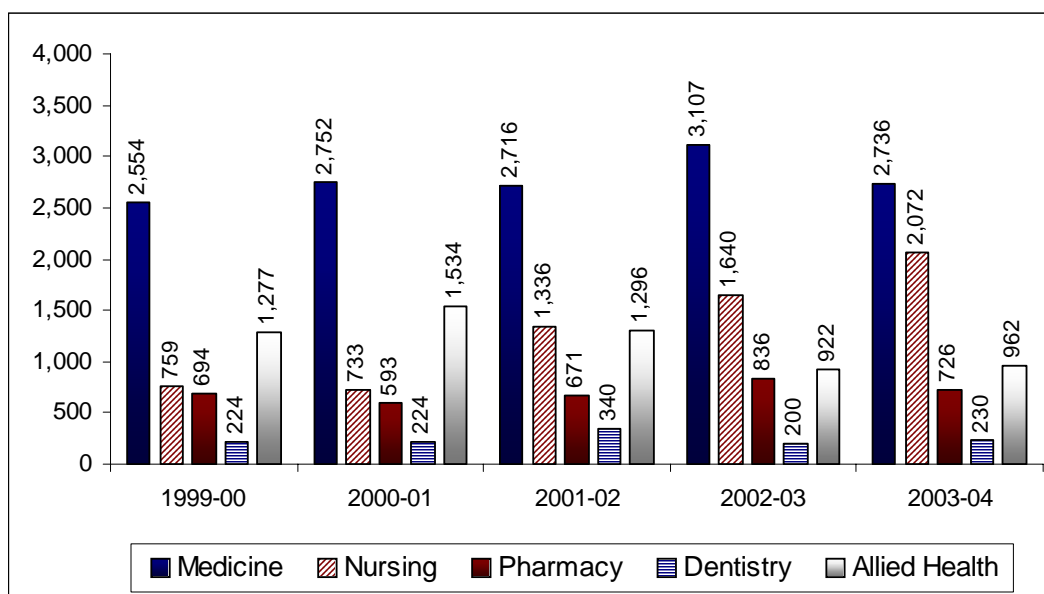


WEST VIRGINIA
HIGHER EDUCATION
POLICY COMMISSION

RHEP Rotations by Year/Discipline



RHEP Student Weeks by Year/Discipline



STUDENT ROTATIONS

22

Rotations by County: June 1, 2003 - May 31, 2004

County	RHEP		Other Rural Sites		County	RHEP		Other Rural Sites	
	Student Rotation	Student Weeks	Student Rotation	Student Weeks		Student Rotation	Student Weeks	Student Rotation	Student Weeks
Barbour	5	26			Mingo	1	6		
Berkeley	65	336			Monroe	10	58		
Boone	19	107	4	13	Monongalia			1	8
Braxton	18	122			Morgan	16	92		
Brooke					Nicholas	20	114	8	16
Cabell	20	111	2	11	Ohio	4	43		
Calhoun	3	13			Pendleton	2	8		
Clay	2	18	1	17	Pleasants	2	8		
Doddridge					Pocahontas				
Fayette	45	271	5	20	Preston	59	492	1	14
Gilmer					Putnam	57	261		
Grant	28	146			Raleigh	21	101	25	92
Greenbrier	156	751	78	262	Randolph	49	270	2	6
Hampshire	5	20			Ritchie	7	66		
Hancock					Roane	21	107		
Hardy	5	35			Summers	11	62		
Harrison	30	209	9	38	Taylor	37	208		
Jackson	19	108	2	18	Tucker	5	28		
Jefferson	27	137			Tyler	3	36		
Kanawha	60	527	1	3	Upshur	49	267		
Lewis	26	159			Wayne	53	266	49	198
Lincoln	9	49			Webster	11	62		
Logan	28	194	26	137	Wetzel				
Marion	29	167	2	8	Wirt				
Marshall	39	278			Wood				
Mason	34	145	1	8	Wyoming	15	91	1	2
McDowell	10	51							
Mercer	7	41	64	246					
Mineral	8	59							
					Total	1,150	6,726	282	1,117



WEST VIRGINIA
HIGHER EDUCATION
POLICY COMMISSION

STUDENT ROTATIONS

23

Rotations by School/Discipline: June 1, 2003 - May 31, 2004

School/Discipline:	RHEP		Other Rural Sites	
	Student Rotations	Student Weeks	Student Rotations	Student Weeks
Alderson-Broadus				
Nursing				
Physician Assistant	46	183		
Mountain State University				
Physician Assistant	67	335		
Nurse Practitioner	6	64		
Marshall University				
Medicine	97	422	46	169
Nursing	19	138	3	16
West Liberty				
Dental Hygiene	6	18		
WV School of Osteopathic Medicine				
Medicine	297	1,430	215	765
Medical Resident	3	13		
West Virginia University				
Nursing	80	990		
Nurse Practitioner	19	312	1	14
Nurse Practitioner-Charleston	18	271	6	102
Physical Therapy	21	248	1	12
Dentistry	38	230		
Dental Hygiene	19	103		
Medicine	140	576	8	34
Medicine-Charleston	65	269	1	4
Medical Resident	6	26		
Other				
Pharmacy	178	726		
Social Work	2	71		
Psychology	1	4		
West Virginia University Institute of Technology				
Nursing	22	297		
Dental Hygiene			1	1
Total	1,150	6,726	282	1,117

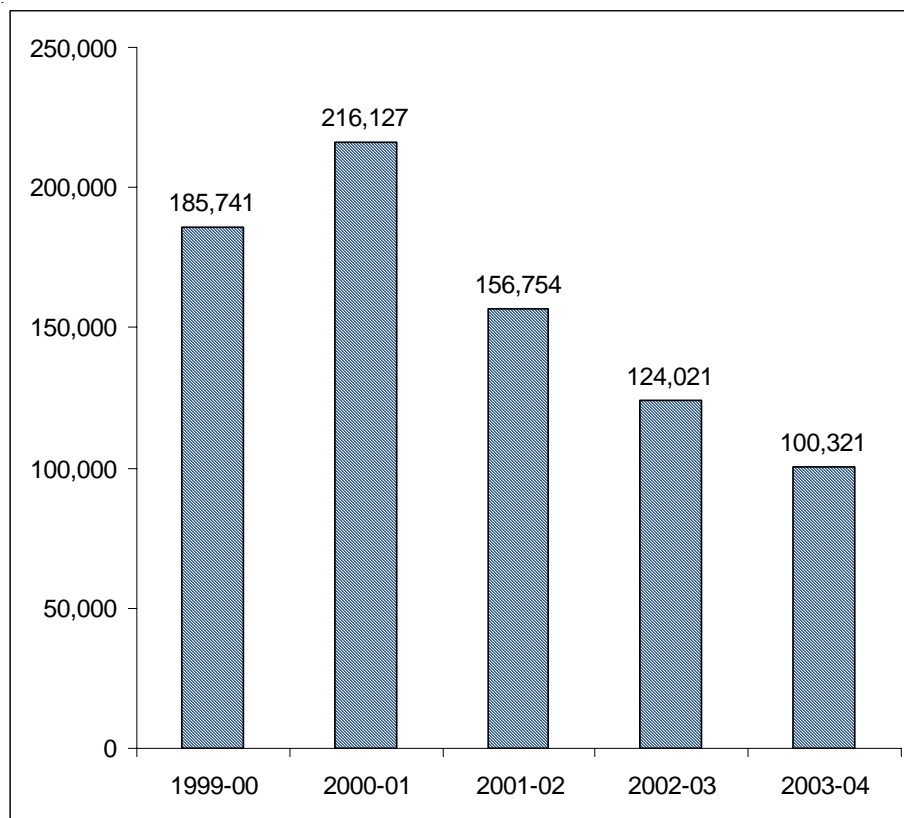


WEST VIRGINIA
HIGHER EDUCATION
POLICY COMMISSION

COMMUNITY SERVICE CONTACTS

24

Community Service Contacts by Year, 1999-2004



COMMENTARY

RHEP provides a wide variety of community services, such as health fairs, health screenings, flood relief clinics, tobacco awareness, high-risk pregnancy programs, osteoporosis clinics, playground safety, sports physicals, and oral hygiene. The declining number of community service contacts is most likely due to changes in reporting definitions, changes in school curricula, and reduction of staff at rural sites who assist students in conducting these activities.

RHEP dental and dental hygiene students provided 12,032 clinical procedures compared to 8,696 the previous year, an increase of 38%. Students and faculty participated in 173 outreach activities serving more than 12,351 West Virginians. RHEP dental sites provided almost \$1 million in uncompensated care.

The CARDIAC (Coronary Artery Detection in Appalachian Communities) program expanded to 54 counties and screened nearly 10,000 children and some of their parents. The objective is to reduce heart disease mortality. In 2004, CARDIAC received a grant from the Benedum Foundation to create a liaison position between the RHEP site coordinators and the AHEC directors to assist with scheduling. The CARDIAC program has received awards from the National Rural Health Association, the American Public Health Association, and the West Virginia Rural Health Conference.



WEST VIRGINIA
HIGHER EDUCATION
POLICY COMMISSION

COMMUNITY SERVICE CONTACTS

25

Contacts by Consortia: June 1, 2003 - May 31, 2004

Consortium	Prevention and Education for General Public	Prevention and Education for Adults	Prevention and Education for Children	Total
Kanawha Valley Health Consortium	1,785	2,453	5,420	9,658
Cabwaylingo Health Education Consortium	756	190	439	1,385
Country Roads Consortium	1,500	1,985	2,224	5,709
Eastern WV Rural Health Education Consortium				
Grant Memorial Hospital	833	1,507	5,072	7,412
City Hospital, Martinsburg	2,247	655	4,165	7,067
Little Kanawha Area Consortium	3,232	744	4,129	8,105
Mountain Health Consortium				
St. Joseph's Hospital	1,850	1,480	3,074	6,404
Braxton County Memorial Hospital	826	231	2,092	3,149
Grafton City Hospital	8,325	1,173	3,511	13,009
Rivers and Bridges Consortium	1,150	2,166	2,978	6,294
Rural Mountain Consortium	0	35	32	67
Rural Ohio Valley Education Resources (ROVER) Consortium	985	716	5,414	7,115
Southern Counties Consortium	2,980	2,011	1,015	6,006
Webster-Nicholas Education Consortium	933	646	1,109	2,688
Western Counties Consortium	3,690	806	3,247	7,743
Winding Roads Health Consortium	2,801	1,867	3,842	8,510
Totals	33,893	18,665	47,763	100,321

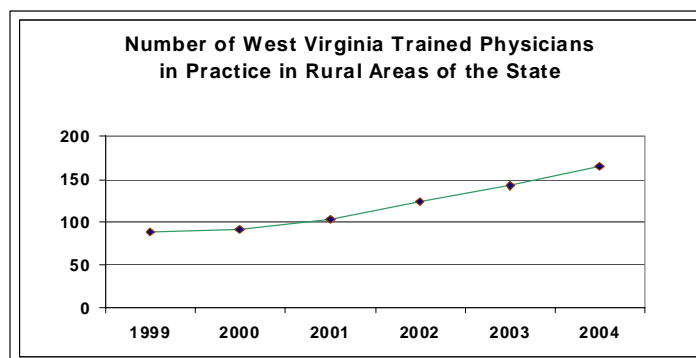


WEST VIRGINIA
HIGHER EDUCATION
POLICY COMMISSION

West Virginia Trained Health Professionals in Practice in Rural Areas of the State

Discipline	Number in Rural Practice	Number who Received Financial Incentives
Physicians		
(1991-2001 graduates)	165	65 (39%)
Nurse Practitioners/Nurse Educators	64	34 (53%)
Nurse-Midwives	1	1 (100%)
Physician Assistants	78	37 (47%)
Nurses	96	
Dentists	70	-
Dental Hygienists	17	-
Pharmacists	130	-
Physical Therapists	35	-
Occupational Therapists	1	-
Medical Technologists	4	
TOTAL	661	137 (21%) *

Methodology: Data on physicians include graduates from 1991-2001 who have completed residency training. Data on all other disciplines include graduates from 1991-2004.



The number of medical graduates in rural practice has increased 88% in the past 6 years at an average annual rate of 13.4%. *The RHEP Recruitment and Retention Committee coordinates state recruitment efforts, including financial incentives, as a companion strategy to rural training. A total of 195 incentives was awarded to these 137 rural practitioners:

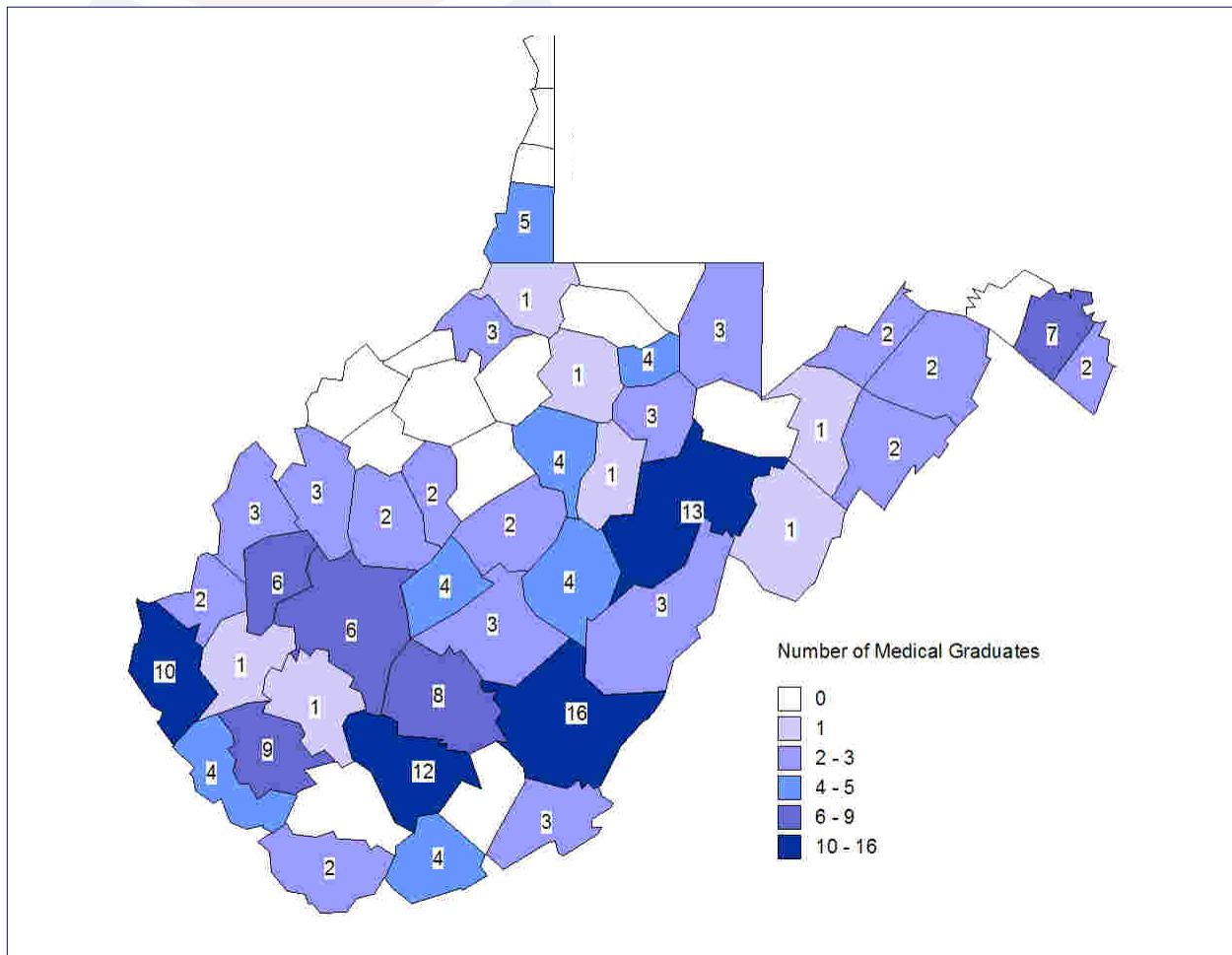
West Virginia Higher Education Policy Commission
Health Sciences Scholarship Program - 61 Awards

WV Rural Health Education Partnerships
SEARCH Training Stipends - 40 Awards
Community Scholarship Program - 9 Awards

Bureau for Public Health, Division of Recruitment
Recruitment & Retention Community Project - 67 Awards
State Loan Repayment Program - 18 Awards



Recent WV Medical Graduates Practicing in Rural Areas in 2004



A total of 165 West Virginia trained physicians were practicing in rural areas of the state in 2004. They include graduates from 1991-2001. Sixty-five (39%) of these physicians received state financial incentives.

Recruitment data on pages 25 and 26 were provided by the HEPC, WVDHHR, medical schools, and RHEP staff.

