

The Pennsylvania Licensed Practical Nurse Workforce In Health Care

Sources: Health Care Workforce Survey Data (2008) & statewide projections from CWIA (2008-2018)

High Estimate Model										
LICENSED PRACTICAL NURSE SUPPLY										
Variable	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Employment In Health Care in PA (A)	37,000	36,100	35,300	34,400	33,500	32,600	31,700	30,800	29,900	29,000
Unemployed Seeking Emp in HC in PA (B)	1,700	1,600	1,500	1,400	1,300	1,200	1,100	1,000	900	800
New Entries (C)	1,900	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Replacements (D) 1.67 to 3.95 + Car. Dev.	2,800	2,800	2,900	2,900	2,900	2,900	2,900	2,900	2,900	2,900
NET SUPPLY = A+B+C-D	37,800	36,900	35,900	34,900	33,900	32,900	31,900	30,900	29,900	28,900
LICENSED PRACTICAL NURSE DEMAND (projected employment)										
Variable	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Employment In Health Care in PA (A)	37,000	37,200	37,400	37,600	37,800	38,000	38,200	38,400	38,600	38,800
Unfilled at 6.7 (B)	2,300	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,500
Growth (C)	200	200	200	200	200	200	200	200	200	200
NET DEMAND (ND) = A + B + C	39,500	39,800	40,000	40,200	40,400	40,600	40,800	41,000	41,200	41,500
SHORTAGE (NS - ND)	-1,700	-2,900	-4,100	-5,300	-6,500	-7,700	-8,900	-10,100	-11,300	-12,600
PROJECTED SHORTAGE	-4%	-7%	-10%	-13%	-16%	-19%	-22%	-25%	-27%	-30%

Low Estimate Model										
LICENSED PRACTICAL NURSE SUPPLY										
Variable	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Employment In Health Care in PA (A)	37,000	36,700	36,400	36,100	35,700	35,300	34,800	34,300	33,800	33,200
Unemployed Seeking Emp in HC in PA (B)	1,700	1,600	1,500	1,400	1,300	1,200	1,100	1,100	1,100	1,000
New Entries (C)	1,900	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Replacements (D) 1.35 to 3.09 + Car. Dev.	2,200	2,300	2,300	2,400	2,400	2,500	2,500	2,500	2,600	2,600
NET SUPPLY = A+B+C-D	38,400	38,000	37,600	37,100	36,600	36,000	35,400	34,900	34,300	33,600
LICENSED PRACTICAL NURSE DEMAND (projected employment)										
Variable	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Employment In Health Care in PA (A)	37,000	37,200	37,400	37,600	37,800	38,000	38,200	38,400	38,600	38,800
Unfilled at 6.7 (B)	2,300	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,500
Growth (C)	200	200	200	200	200	200	200	200	200	200
NET DEMAND (ND) = A + B + C	39,500	39,800	40,000	40,200	40,400	40,600	40,800	41,000	41,200	41,500
SHORTAGE (NS - ND)	-1,100	-1,800	-2,400	-3,100	-3,800	-4,600	-5,400	-6,100	-6,900	-7,900
PROJECTED SHORTAGE	-3%	-5%	-6%	-8%	-9%	-11%	-13%	-15%	-17%	-19%

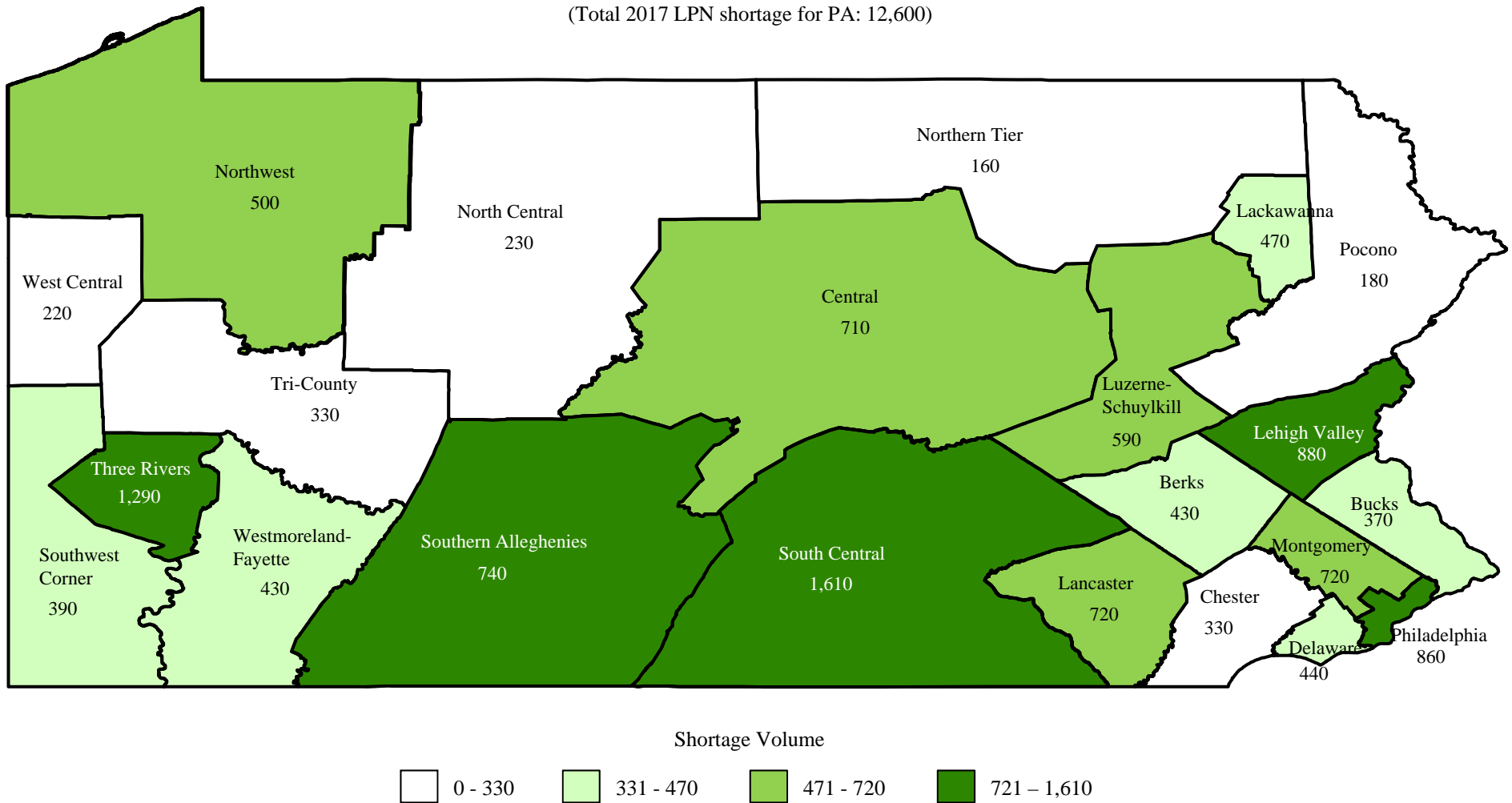
Licensed Practical Nurse Model Regional Shortage

Health District	2010 Shortage	Pct.	2014 Shortage	Pct.	2017 Shortage	Pct.
Northwest	270	6%	640	15%	940	22%
Southwest	960	13%	2,040	27%	2,810	36%
Northcentral	240	7%	510	15%	740	22%
Southcentral	680	10%	1,430	20%	2,050	29%
Northeast	700	13%	1,480	27%	2,040	36%
Southeast	1,250	10%	2,800	21%	4,020	30%
Total	4,100	10%	8,900	22%	12,600	30%

Workforce Investment Area	2010 Shortage	Pct.	2014 Shortage	Pct.	2017 Shortage	Pct.
Berks	160	11%	320	22%	430	30%
Bucks	80	6%	240	18%	370	28%
Central	210	7%	480	15%	710	22%
Chester	120	11%	240	22%	330	30%
Delaware	140	10%	310	23%	440	33%
Lackawanna	160	13%	340	26%	470	35%
Lancaster	240	10%	500	20%	720	29%
Lehigh Valley	340	19%	670	36%	880	46%
Luzerne and Schuylkill	160	7%	400	18%	590	26%
Montgomery	230	12%	500	26%	720	35%
North Central	60	5%	150	13%	230	20%
Northern Tier	60	9%	110	19%	160	26%
Northwest	150	7%	340	15%	500	22%
Philadelphia	270	9%	600	21%	860	30%
Pocono Counties	40	6%	120	17%	180	26%
South Central	540	10%	1,140	21%	1,610	29%
Southern Alleghenies	240	10%	520	22%	740	30%
Southwest Corner	110	11%	270	27%	390	37%
Three Rivers	500	16%	970	31%	1,290	40%
Tri-County	100	9%	230	22%	330	31%
West Central	60	7%	150	17%	220	24%
Westmoreland and Fayette	130	11%	300	26%	430	35%
Total	4,100	10%	8,900	22%	12,600	30%

Note: Negative number denotes surplus

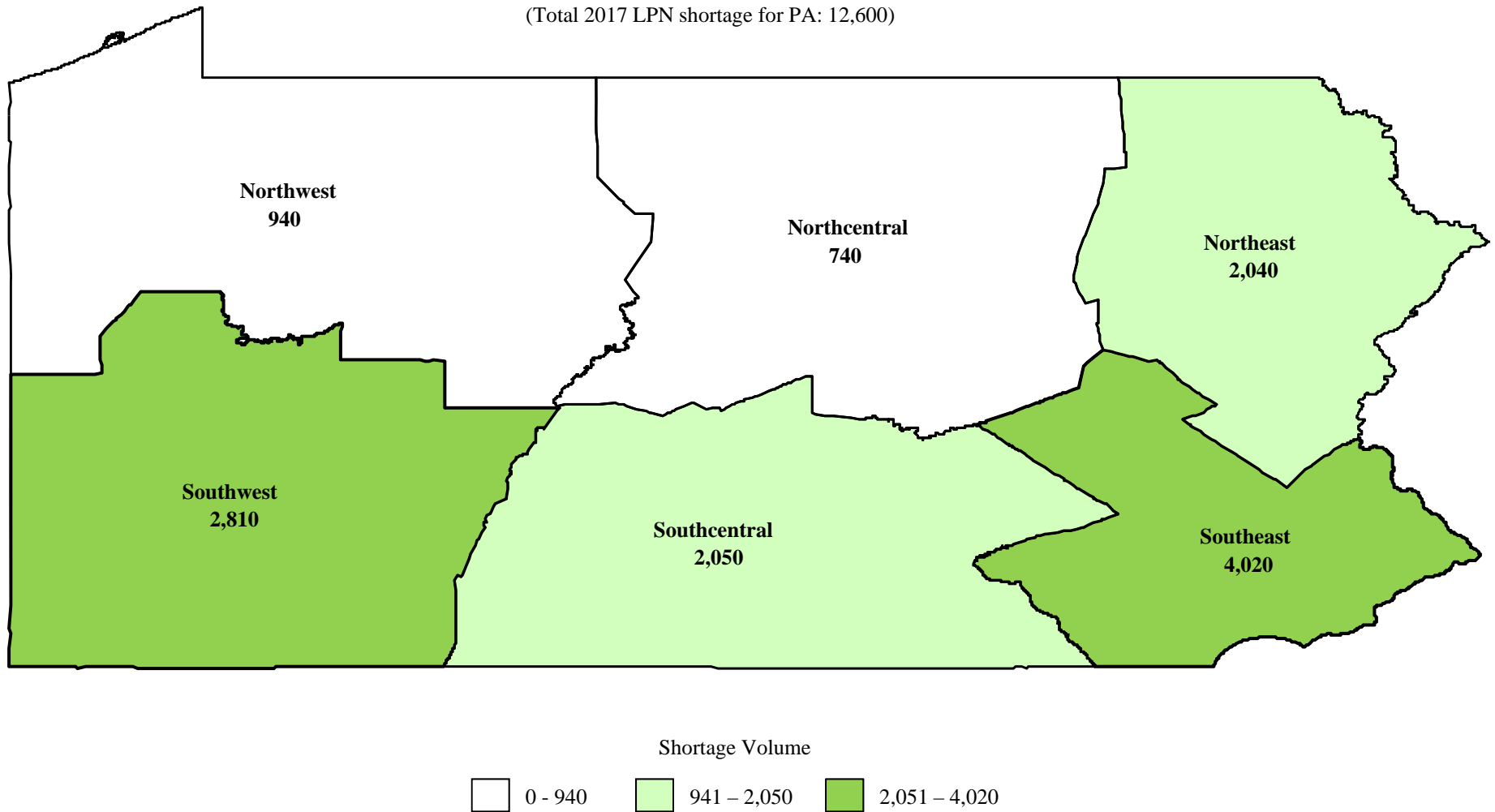
2017 Pennsylvania Licensed Practical Nurse Shortages by Workforce Investment Area (Total 2017 LPN shortage for PA: 12,600)



Note: This map represents the high estimate model for LPNs. The low estimate model projects a 2017 LPN shortage of 7,900.

2017 Pennsylvania Licensed Practical Nurse Shortages by Health Districts

(Total 2017 LPN shortage for PA: 12,600)



Note: This map represents the high estimate model for LPNs. The low estimate model projects a 2017 LPN shortage of 7,900.