

An Introduction to HRSA's Web-based Nursing Model

Presented by: David Armstrong, PhD, Director
Health Workforce Technical Assistance Center
School of Public Health | University at Albany, SUNY

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The National Forum of State Nursing Workforce Centers,
2015 Conference

Denver, Colorado



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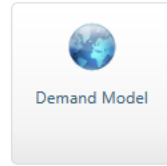
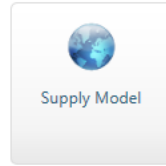
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Welcome to the Nursing Health Workforce Model!



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Welcome to the Nursing Supply Model!

- Status Quo Scenario
- Low Graduate Scenario
- High Graduate Scenario
- Early Retirement Scenario
- Delayed Retirement Scenario
- User Scenario

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Welcome to the Nursing Model User Guide and Glossary

here you will find more information about the model soon.



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Scenarios

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User scenario

Name	Status Quo	Description	Status Quo
Hours per FTE (RN)	35.77	Hours per FTE (LPN)	34.99
Simulation Period (Years)	13		
Chg In Retirement Age	0	Avg. Hours Modifier In %	0
Add LPNs Per Year	64000	Yearly % Change	0
Add AD Level RNs Per Year	87700	Yearly % Change	0
Add BA Level RNs Per Year	62500	Yearly % Change	0

Run Scenario

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Simulation has been started. This might take several minutes to complete. Please stand by.

Cancel

Nursing Supply Model - Status Quo Scenario

 Show Scenario Results
 National Overview
 State Overview
 National Year Drill-Down
 compare to Demand

Nurse Projections by State

State

[change](#)

RN projected nurse supply by year

Year	Headcount	Active	New Entrants	Separations	Hours Worked	FTE
2012	2,995,314	2,889,984	0	0	0	0
2013	3,071,571	2,963,936	149,973	73,943	105,961,369	2,962,573
2014	3,158,308	3,048,332	149,903	63,463	108,890,463	3,044,468
2015	3,241,228	3,128,725	149,933	67,280	111,663,584	3,122,001
2016	3,319,800	3,204,877	149,923	71,628	114,276,540	3,195,057
2017	3,394,236	3,276,594	149,931	75,764	116,725,284	3,263,521
2018	3,465,010	3,344,780	149,941	79,426	119,042,542	3,328,310
2019	3,532,222	3,409,517	149,907	82,988	121,238,607	3,389,709
2020	3,595,685	3,469,937	149,919	86,737	123,291,067	3,447,094
2021	3,656,204	3,527,688	149,933	89,681	125,247,070	3,501,782
2022	3,712,556	3,581,777	149,933	93,848	127,065,986	3,552,637
2023	3,767,271	3,634,070	149,916	95,485	128,828,644	3,601,919
2024	3,818,451	3,683,221	149,934	99,020	130,502,321	3,648,713
2025	3,867,407	3,730,039	149,939	101,244	132,113,351	3,693,756

LPN projected nurse supply by year

Year	Headcount	Active	New Entrants	Separations	Hours Worked	FTE
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Scenario Parameters

Scenario:	Status Quo
FTE Avg. Hours Worked (RN):	35.7666671
FTE Avg. Hours Worked (LPN):	34.9995868
Base Year:	2012
Retirement change (years):	0
Avg. hours modifier (factor):	1
Simulation Period:	13
LPNs added in 1st year:	64000
AD level RNs added in 1st year:	87700
BA level RNs added in 1st year:	62500
Scenario Description:	Status Quo

Nursing Projection Models - Charts




Show Scenario Results



National Overview



States Overview



National Year Drill-Down

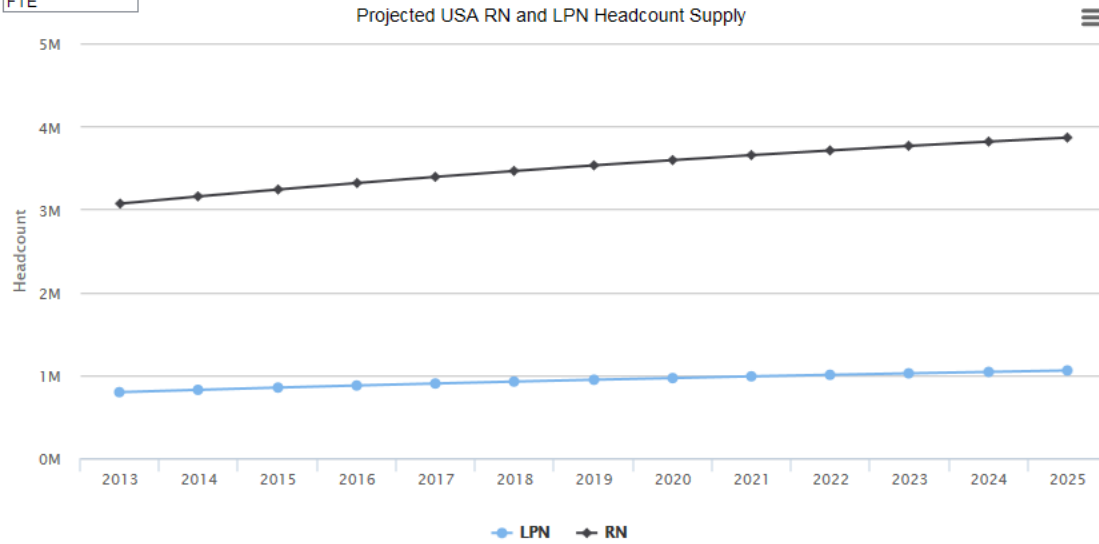


compare to Demand

National Overview

Headcount

- Headcount
- Hours Worked
- FTE



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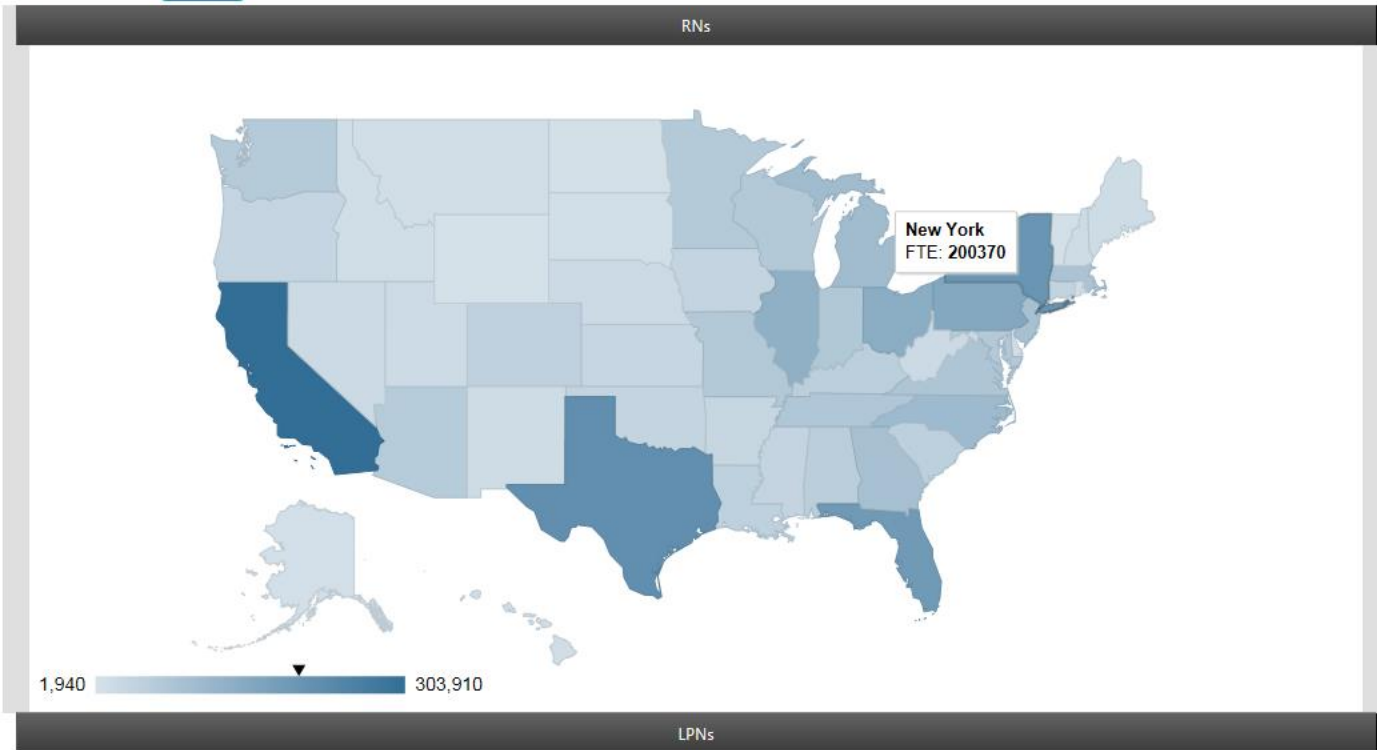
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Total Projected FTE By State For 2015

show ratio per 100K population

2015 Next Year

FTE



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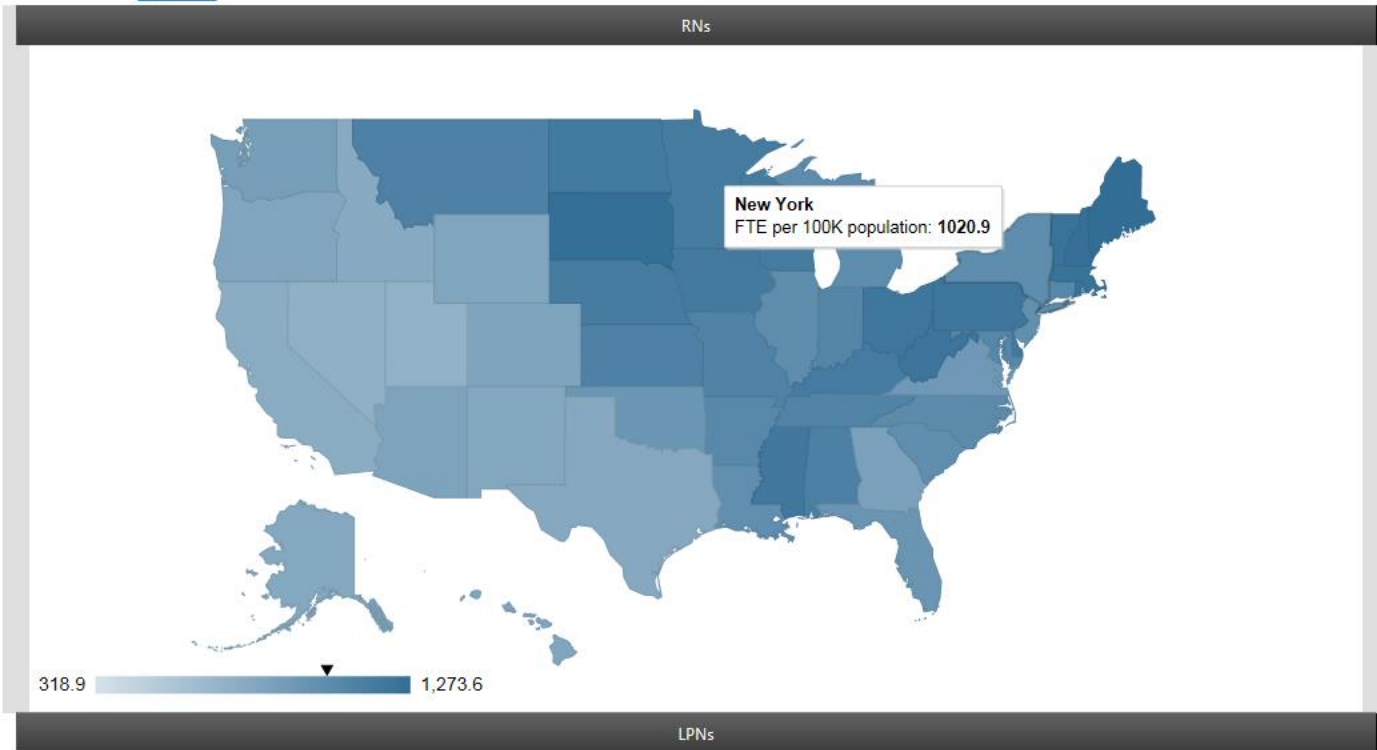
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Number of Nurses per 100.000 Population For Year: 2015

show absolute numbers

2015 Next Year

FTE



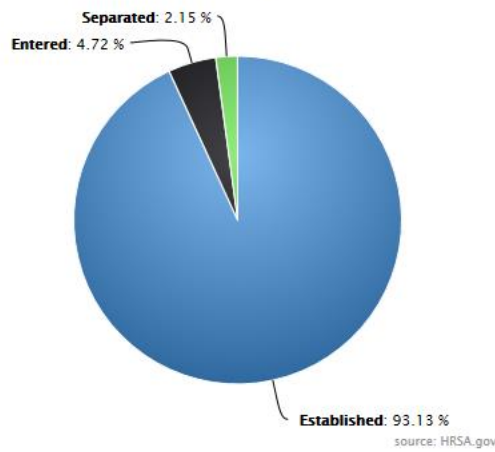
Year Drill-Down for District of Columbia in 2019

Headcount 2019 District of Columbia Change Next Year

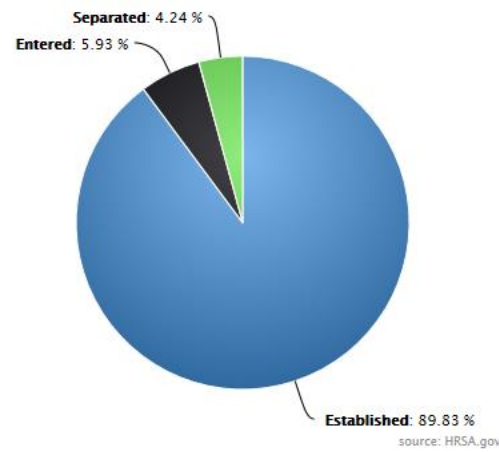
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RNs LPNs

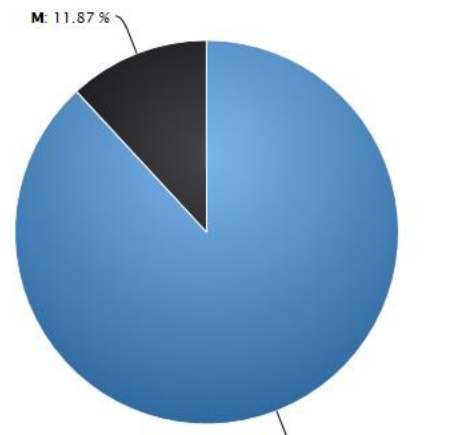
District of Columbia Nursing Activity Status Headcount in 2019



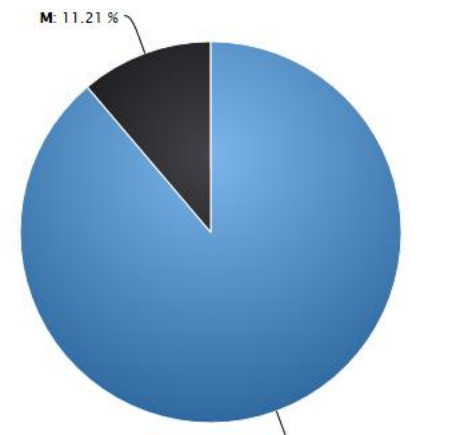
District of Columbia Nursing Activity Status Headcount in 2019



District of Columbia Gender Headcount in 2019



District of Columbia Gender Headcount in 2019



Nursing Projection Models - Charts



Show Scenario Results



National Overview



States Overview



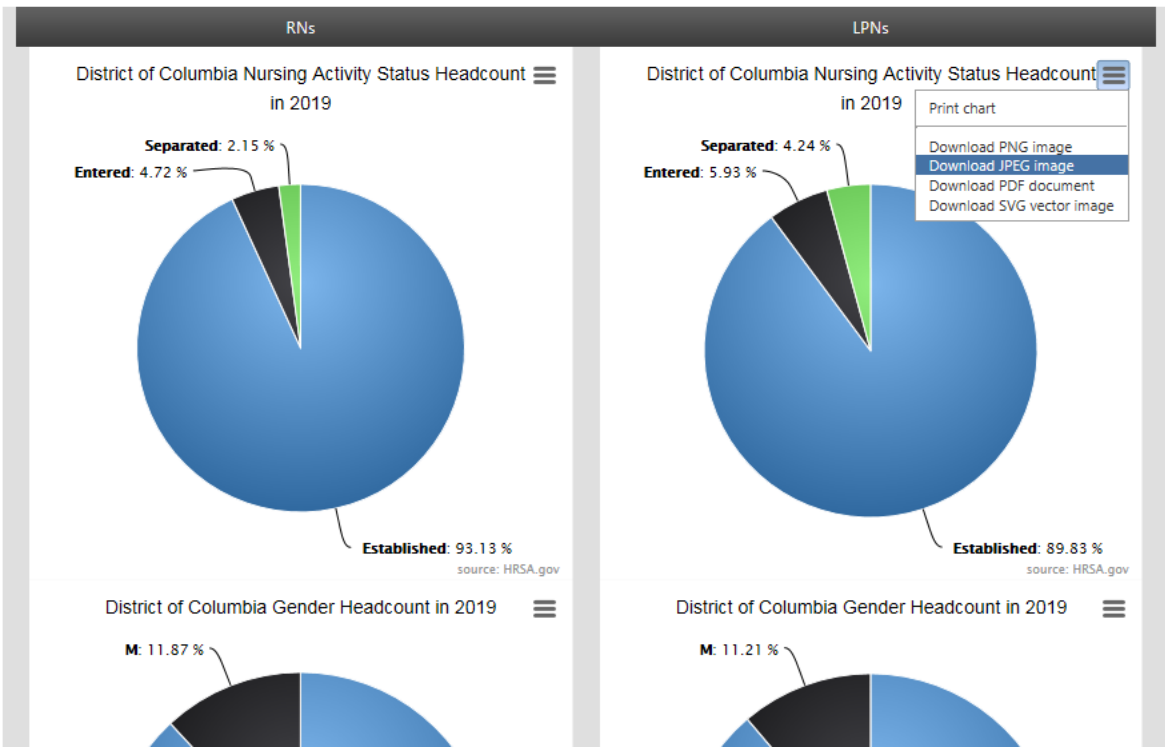
National Year Drill-Down



compare to Demand

Year Drill-Down for District of Columbia in 2019

Headcount ▼ 2019
▼ District of Columbia
Change
Next Year



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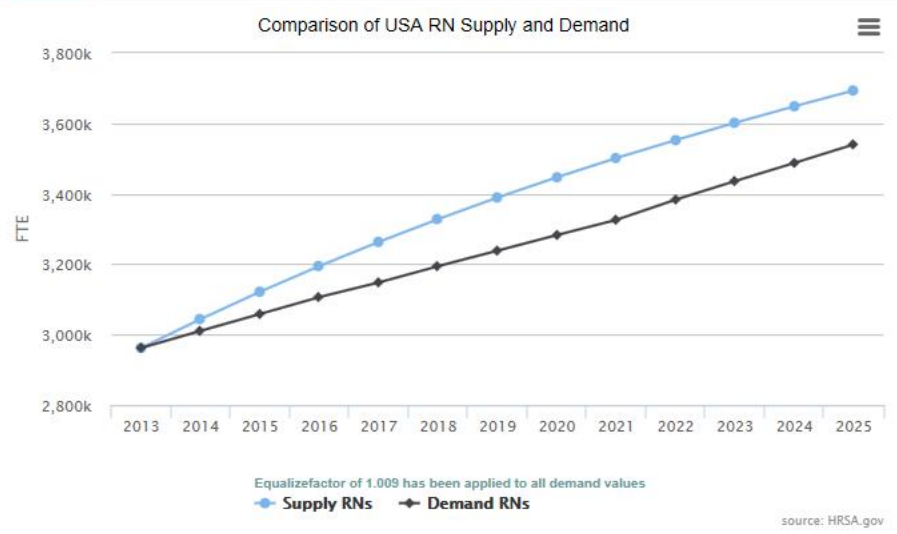
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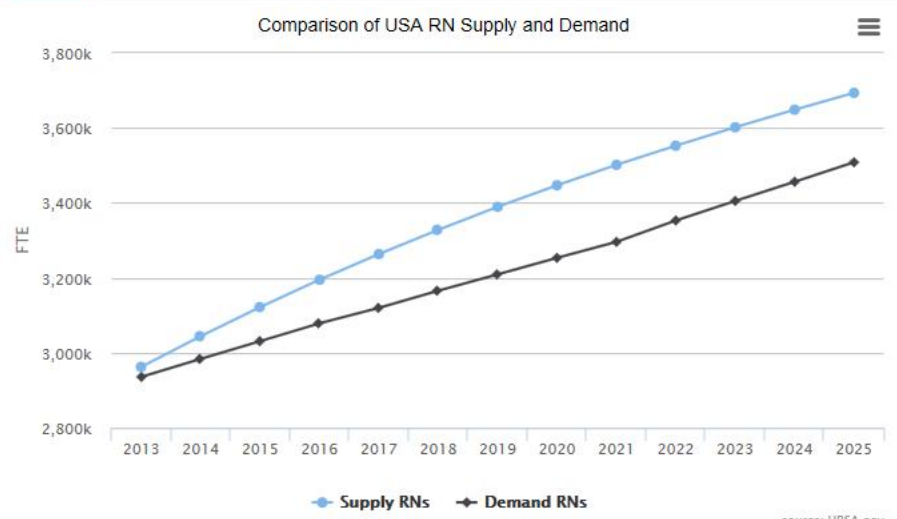
Nurse Projections by State

State USA
 Equalize
change



Show Scenario Results National Overview State Overview National Year Drill-Down compare to Demand

Nurse Projections by State State: USA Equalize change



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Export - Status Quo Scenario

Nurse Projections by State

State

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Scenarios

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What Data Do You Need?

State	Age	Sex	Associate's Degree	Bachelor's Degree	Higher Than Bachelor's Degree	LPN	RN
California	56	F	0	1	0		1
California	41	M	1	0	0		1
California	43	F	0	1	0		1
California	32	F	0	1	1		1
California	28	F	1	0	0		1

- How do you weight data?
- What about missing cases?

Technical Assistance?

Contact Information

David Armstrong, PhD

Director, Health Workforce Technical Assistance Center

david.armstrong@health.ny.gov

518-402-0250

www.healthworkforceTA.org