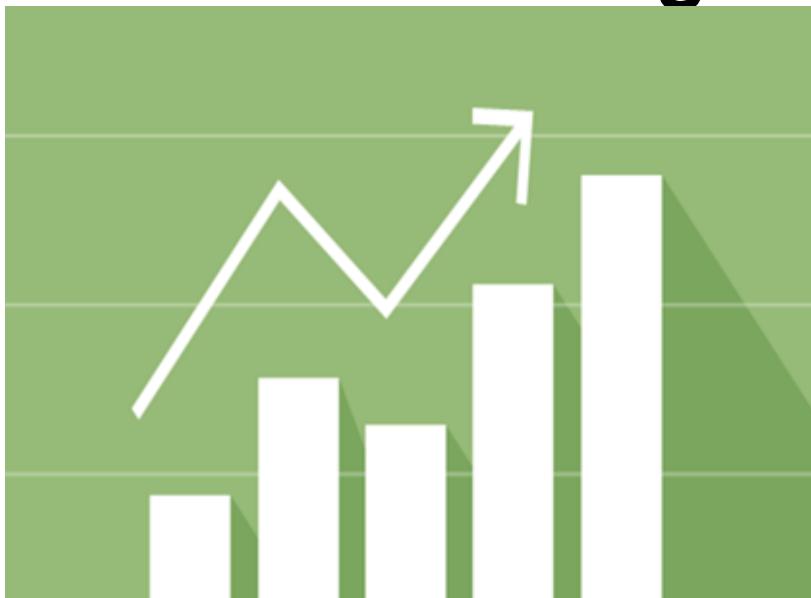




Department of Health Professions

Projected Demand and Supply of Selected Healthcare Professions in Virginia



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Goal



To update projections of health professionals in Virginia



Possible Demand Data



US Bureau of Labor/ Virginia Economic Commission – short- and long-term employment projection



Virginia claims database



HRSA projections



Supply



Licensure database and survey provided number of licensees, workforce, FTEs, & new and expired licenses



Projected new and expired licensees; estimated based on equation of best fit



Supply FTE= previous year's supply FTE + FTE
Conversion rate*(new licensees – old licensees)



Supply Scenarios



Low growth: This is a scenario in which the number of new licenses increased by 3% such as increased enrollment.



High growth: This is a scenario in which the number of expired licenses declined by 5% such as delayed retirement and increased participation in VA workforce.



Retention: This is a scenario in which the number of expired licenses declined by 3% such as delayed retirement.



Demand



Demand FTEs: This was obtained by dividing the projected supply FTEs by HRSA's adequacy rate.



HRSA Adequacy rate = HRSA estimated supply/HRSA estimated demand



Demand Scenarios



Reduced demand: This is a scenario in which the demand declines by 3% such as due to better health behavior.



Increased insurance access: This is a scenario in which access to insurance increased and results in a 5% increase in demand.



Regional Estimates



Supply data readily available by region



Demand data estimated from regional proportion of morbidity and disease surveillance data from the Virginia Department of Health



In progress...only one profession (RN) done so far



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Dashboard



<https://www.dhp.virginia.gov/PublicResources/HealthcareWorkforceDataCenter/Dashboards/ProjectionsofthePrimaryCareWorkforce/>



Healthcare Workforce Data Center

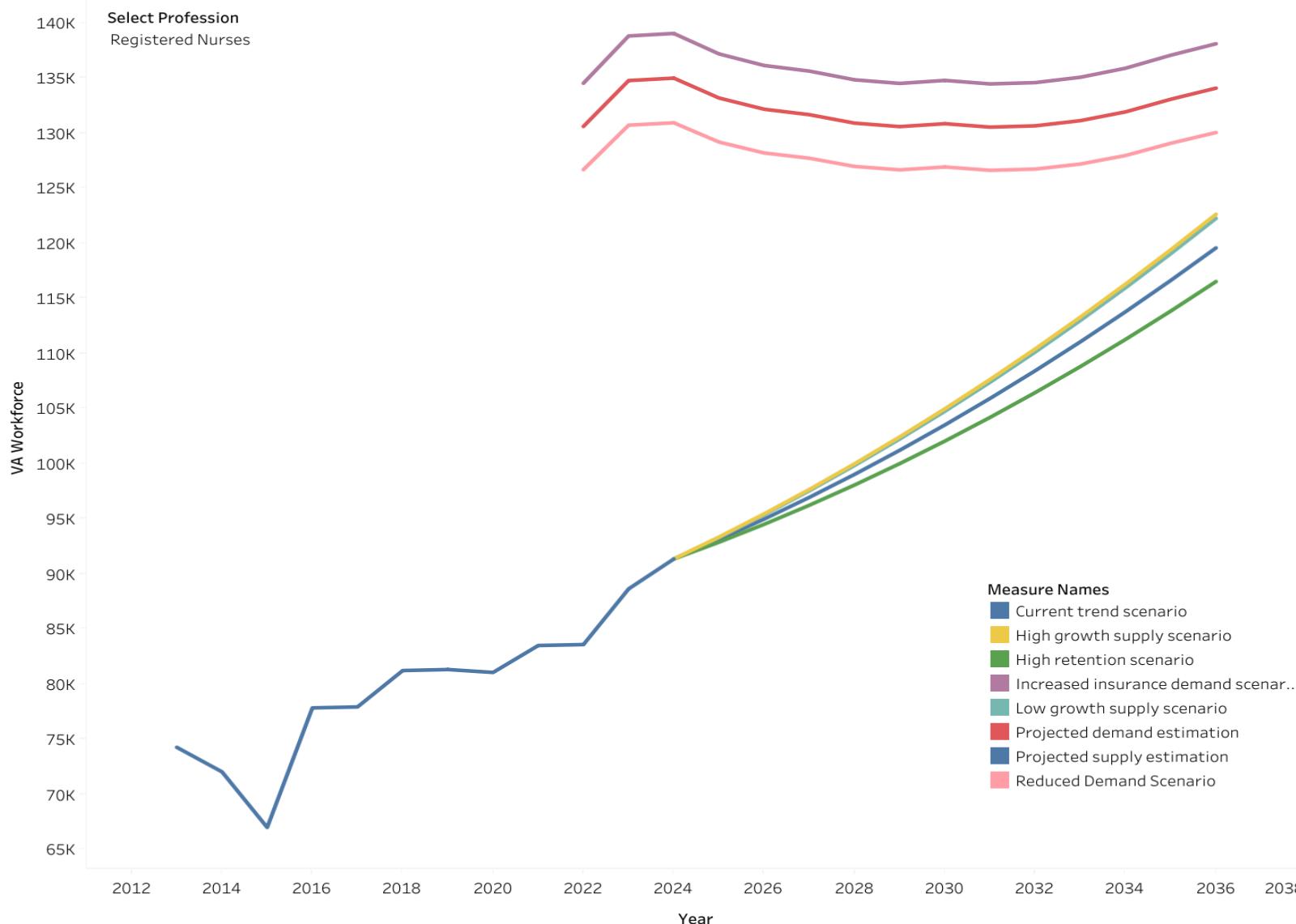
Projected Demand and Supply of Selected Healthcare Professions in Virginia

This dashboard presents the supply and demand trends and projections for selected healthcare professions in the Commonwealth of Virginia. As the National Center for Workforce Analysis (NCWA) under the Department of Health and Human Services, Health Resources and Services Administration updates its projections, which are used as the foundation for the demand estimates, more professions will be added. Click through the storybook to estimate projected supply and demand until 2036, and explore various hypothetical scenarios.





Supply and Demand Projections of Selected Healthcare Professions in Virginia



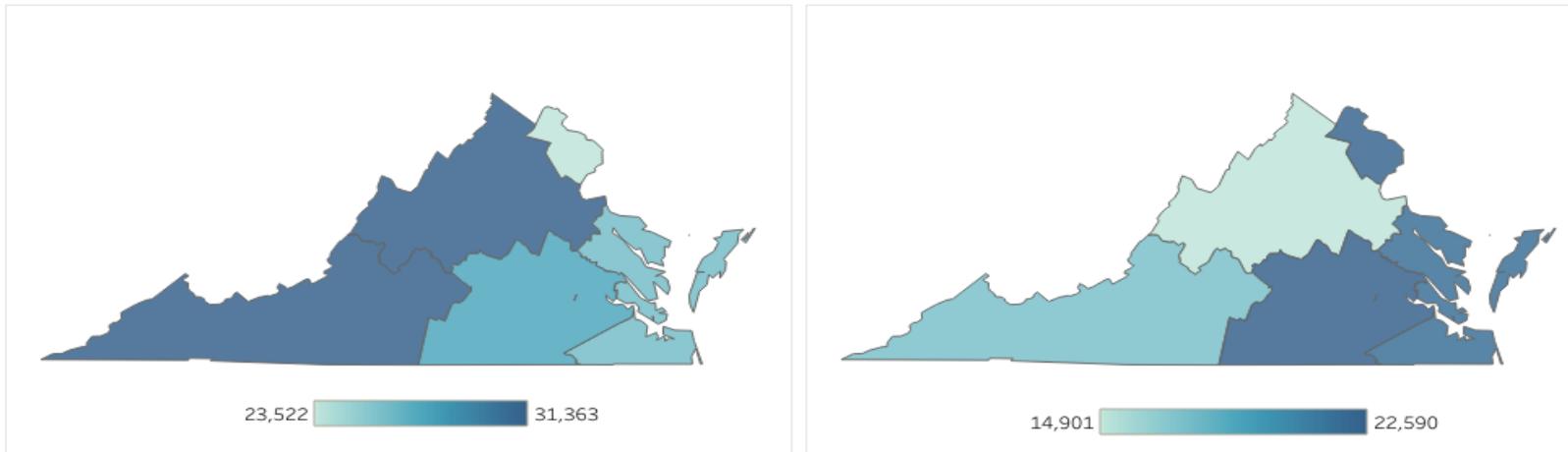


Demand

Profession Registered Nurses

Supply

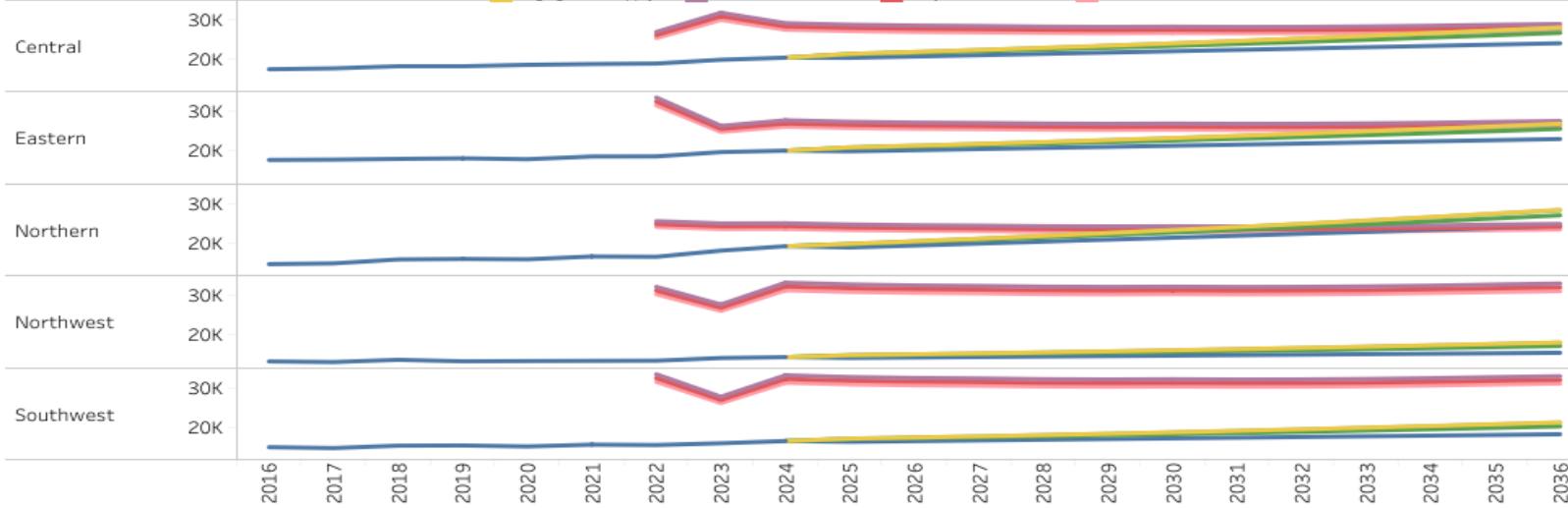
Year 2032



Trends

Health Districts All

Measure Names
Current trend scenario
High retention scenario
Low growth supply scenario
Projected supply estimate
High growth supply scenario
Increased insurance dependency
Projected demand estimate
Reduced demand scenario





Methodology

This dashboard presents the trends and projections for the demand and supply of selected healthcare professions in the commonwealth of Virginia.

Supply

Licensure data for each profession provided the number of licensees that expire every year (for those with annual renewal) and every biennial (for those who renew every two years). Licensure data also include the number of new licensees every year. The numbers from the licensure database projected forward to 2036 in individual charts to obtain an equation that best captures the data trend. In deciding the line of best fit, the R-squared of the trend lines and logical expectation of future trends were both considered. Information on the ratio of FTEs provided by the workforce to the number of licensees were used to estimate average production rate and this rate, which ranged from 0.58 to 0.90, was used in calculating projected supply.

Current trend: This is the full time equivalency units (FTEs) provided by the profession over the years.

Projections: This was obtained by adding the previous year's FTEs to the product of the production rate and the difference between the number of new licensees and expired licensees.

Low growth: This is a scenario in which the number of new licenses increased by 3%.

High Retention: This is a scenario in which the number of expired licenses declined by 5%.

Moderate Retention: This is a scenario in which the number of expired licenses declined by 3%.

Demand

The National Center for Workforce Analysis (NCWA) under the Department of Health and Human Services, Health Resources and Services Administration, provides state-specific current and future adequacy rates for each profession. This adequacy rates were used to obtain the demand estimates between 2022 and 2036. For more information about the projections by NCWA, please visit <https://data.hrsa.gov/topics/health-workforce/nchwa/workforce-projections>

Demand: This was obtained by dividing the projected supply by the adequacy rate. Adequacy rate = HRSA estimated supply/HRSA estimated demand

Reduced demand: This is a scenario in which the demand declines by 3%.

Increased insurance access: This is a scenario in which access to insurance increased and results in a 5% increase in demand.



Checks

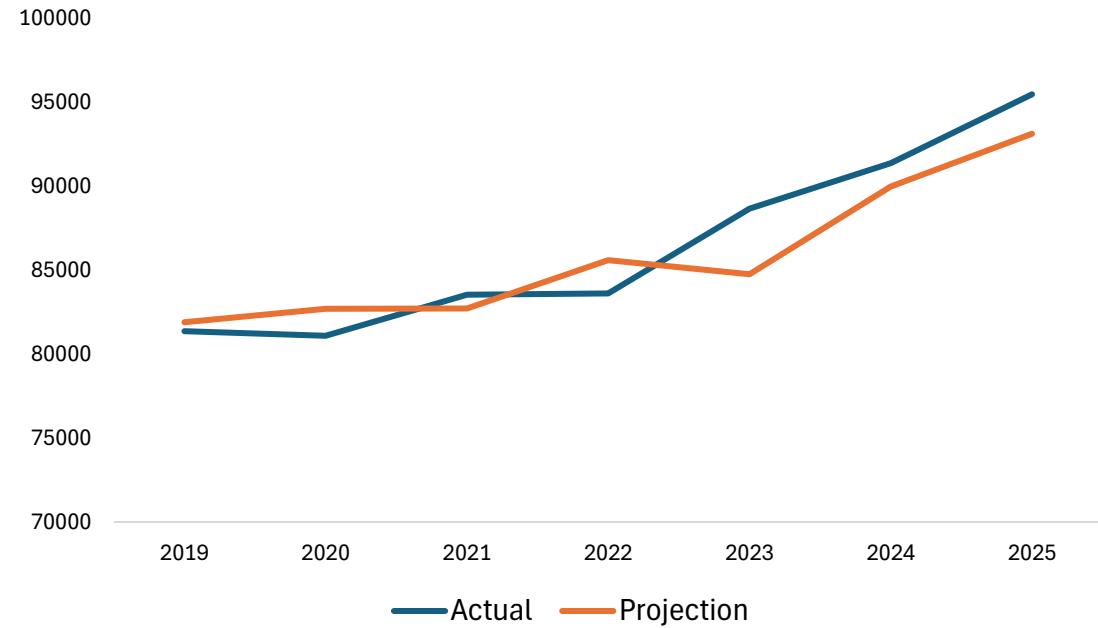


Checked using historical data



Estimates were within 4% of actuals

Actual versus Projection - RNs





Limitations



HRSA does not have data on all professions; Demand only as good as the underlying HRSA simulation model developed



Assumption of stable trends in the future; any disruption to past trends will affect the accuracy of the estimate



Demand and supply in some professions are interrelated (e.g. RN and LPN)



Conclusion



Projection outcomes are profession specific

- 5% retention rate resulted in highest projected supply for RN but 3% increase in new licensees resulted in highest supply for APRNs



Projected supply meets demand for APRNs, dentists, OT, OTAs, pharmacy technicians, PTs, and PTAs but not for dental hygienists, LPNs, physicians, RNs, respiratory therapists, PAs, and pharmacists



Geographical variations and maldistribution appear to be significant



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