

ALS analysis in NY

Identification of Areas with High ALS

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Background

- The goal of the project/task is provide the most accurate and timely identification of areas experiencing an Acute labor Shortage in terms of Nurses in New York.
- The initial analysis consisted in comparing, by different categories, # of postings vs # of Hires by county.
 - High Hirings relative to posting would indicate a health labor market.
 - Low Hirings relative to postings would indicate a labor shortage.
- Main issues:
 - Postings do not relate to number of hires
 - * Single posting can result in multiple hires. Some postings are never taken down, etc.
 - * There is no proper hiring data. Data available consists on predictions and projections.

Change of Strategy

- In June 2024, a new set of regulations were established by the federal government, aiming change and improve the staffing standards for long term care facilities.
- The new regulations change the minimum staffing requirements for Registered Nurses (RN) and Nursis assistants (NA)
 - 3.48hrs per resident per day (Minimum total)
 - 0.55hrs per resident per day (RN)
 - 2.45hrs per resident per day (NA)

- More Importantly, they also established guidelines to identify areas with Acute Labor Shortages (ALS), which would qualify providers for partial exemptions to the new requirements.
- From our perspective, we can use these guidelines to identify areas with ALS in NY.

Methodology

- The new methodology is as follows:¹
 1. Using data from the [BLS](#) to identify total number of RNs and NAs
 2. Calculate Total population for the corresponding MSA. Data comes from the [Census](#), where we can collect data at the county level.
 3. Calculate the RNs and NAs per capita
 4. Compare it to the National average (80%).

Logic:

- National level: assume the market is in equilibrium. However, locally, some labor markets may be experiencing shortages, or surpluses.
- Total Supply is proxied by all personal working in specific occupations
- Total Demand is proxied by the population of the area (or Age Specific)
- Supply / demand < 80% of national average, the area to have an ALS.

Limitations:

- Data is not timely. We are currently using 2020 to 2023 data. 2024 data is only partially available of population
- For OES data for 2024 is not available yet. Perhaps we can request it.

code	Occupation
29-1141	Registered Nurses
29-2061	Licensed Practical and Licensed
31-1131	Nursing Assistants

Results: 2023

¹See pg 26 third column

Area	RN- 65+	LPN- 65+	NA- 65+	RN- Tpop	LPN- Tpop	NA- Tpop
Albany-Schenectady-Troy, NY	110.95	126.03	95.32	121.72	138.3	104.6
Binghamton, NY	90.67	99.35	110.63	108.53	118.94	132.44
Buffalo-Cheektowaga-Niagara Falls, NY	107.12	140.83	89.62	122.26	160.78	102.3
Elmira, NY	67.89	200.79	95.46	80.35	237.71	113.0
Glens Falls, NY	60.37	101.92	75.13	81.13	137	100.99
Ithaca, NY	91.17	103.36	90.58	86.89	98.52	86.34
Kingston, NY	44.62	68.99	39.61	55.22	85.41	49.04
New York-Newark-Jersey City, NY-NJ-PA	97.51	86.04	98.75	97.45	86.02	98.71
Rochester, NY	95.11	126.61	95.85	108.26	144.15	109.12
Syracuse, NY	110.24	153.35	102.57	120.58	167.77	112.21
Utica-Rome, NY	74.88	162.89	110.06	87.7	190.82	128.92
Watertown-Fort Drum, NY	48.55	174.56	58.72	42.93	154.38	51.93
Capital/Northern New York nonmetropolitan area	70.16	105.49	53.52	82.69	124.36	63.09
Southwest New York nonmetropolitan area	51.05	115.24	66.73	62.13	140.26	81.22
Central East New York nonmetropolitan area	48.9	104.78	60.69	62.89	134.79	78.06

Results: 2022

Area	RN- 65+	LPN- 65+	NA- 65+	RN- Tpop	LPN- Tpop	NA- Tpop
Albany-Schenectady-Troy, NY	110.49	126.62	96.45	120.84	138.51	105.51
Binghamton, NY	88.72	106.92	113.81	105.93	127.7	135.92
Buffalo-Cheektowaga-Niagara Falls, NY	107.91	131.11	81.61	122.38	148.73	92.57
Elmira, NY	92.74	114.98	118.12	110.0	136.42	140.13
Glens Falls, NY	70.52	101.16	83.35	93.7	134.44	110.76
Ithaca, NY	87.98	102.44	87.88	82.96	96.61	82.87
Kingston, NY	46.28	66.03	40.7	57.07	81.45	50.2
New York-Newark-Jersey City, NY-NJ-PA	99.0	85.57	100.06	98.44	85.1	99.51
Rochester, NY	101.16	114.39	106.13	114.26	129.23	119.89
Syracuse, NY	115.04	159.55	102.94	124.9	173.26	111.78
Utica-Rome, NY	75.38	164.44	102.11	88.62	193.39	120.08

Area	RN- 65+	LPN- 65+	NA- 65+	RN- Tpop	LPN- Tpop	NA- Tpop
Watertown-Fort Drum, NY	51.62	187.43	59.9	45.53	165.36	52.84
Capital/Northern New York nonmetropolitan area	69.88	108.65	55.85	82.36	128.1	65.84
Southwest New York nonmetropolitan area	51.18	115.37	73.75	62.19	140.24	89.64
Central East New York nonmetropolitan area	50.11	99.73	61.17	64.22	127.84	78.4

Results: 2021

Area	RN- 65+	LPN- 65+	NA- 65+	RN- Tpop	LPN- Tpop	NA- Tpop
Albany-Schenectady-Troy, NY	112.53	117.39	103.43	122.64	127.92	112.68
Binghamton, NY	99.51	98.82	133.55	118.68	117.85	159.23
Buffalo-Cheektowaga-Niagara Falls, NY	109.43	136.16	93.32	123.23	153.31	105.06
Elmira, NY	90.56	143.46	116.0	106.54	168.77	136.43
Glens Falls, NY	65.94	105.49	90.31	87.14	139.4	119.32
Ithaca, NY	86.72	121.53	97.41	80.39	112.66	90.28
Kingston, NY	39.41	71.68	44.87	48.21	87.69	54.88
New York-Newark-Jersey City, NY-NJ-PA	97.47	86.52	101.94	96.26	85.44	100.64
Rochester, NY	98.53	132.09	105.01	110.58	148.23	117.82
Syracuse, NY	119.81	166.87	111.14	129.28	180.06	119.89
Utica-Rome, NY	80.9	176.29	112.07	95.4	207.87	132.12
Watertown-Fort Drum, NY	85.85	209.11	106.4	74.74	182.04	92.6
Capital/Northern New York nonmetropolitan area	75.87	109.27	76.34	88.94	128.09	89.46
Southwest New York nonmetropolitan area	50.78	122.85	76.09	61.52	148.82	92.15
Central East New York nonmetropolitan area	54.32	95.71	69.86	69.29	122.08	89.09