

**Application of the Acute Care Need Methodology to FY 2021 Data,
Including Level II, III and IV Neonatal Intensive Care Unit (NICU) Data**

The Acute Care Bed Need Methodology was applied to the most recent data for the *Proposed 2023 State Medical Facilities Plan*. Per the methodology, County Growth Rate Multipliers (CGRM) for each service area were calculated to reflect annual changes in acute care bed days of care (DOC) provided from FY 2017 – 2021. Table 5A (Attachment A) displays the service area deficits resulting from the methodology calculations. The number of need determinations is unprecedented and does not reflect historical growth; Attachment B summarizes the need determinations (see Column C).

The staff adjusted the methodology calculations such that each CGRM reflects annual changes in DOC provided from FY 2015 – 2019. In other words, changes in acute care bed DOC provided during the five years before the COVID-19 pandemic were applied to the calculations instead of changes from FY 2017 - 2021. Attachment B also summarizes the need determinations resulting from this adjustment (see Column D).

ATTACHMENT A

Includes NICU data and includes UNadjusted CGRM**Table 5A: Acute Care Bed Need Projections**

2021 Utilization Data from HIDI compiled by the Cecil B. Sheps Center for Health Services Research

Target Occupancy Rates: ADC 1-99: 66.7%, ADC 100-200: 71.4%, ADC > 200 and <=400: 75.2%, ADC>400: 78%

Target Occupancy Factors: ADC 1-99: 1.50, ADC 100-200: 1.40, ADC > 200 and <=400: 1.33, ADC >400: 1.28

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Service Area	License Number	Facility Name	Licensed Acute Care Beds	Adjustments for CONs/ Previous Need	Inpatient Days of Care	County Growth Rate Multiplier	Projected Days of Care	2025 Projected Average Daily Census (ADC)	2025 Beds Adjusted for Target Occupancy	Projected 2025 Deficit or Surplus (surplus shows as a "-")	2025 Need Determination
Alamance	H0272	Alamance Regional Medical Center	182	0	43,283	1.0431	51,233	140	196	14	
Alamance Total			182	0							0
Alexander	H0274	Alexander Hospital (closed)*	25	-25		0.0000	0	0	0	0	
Alexander Total			25	-25							0
Alleghany	H0108	Alleghany Memorial Hospital**	41	-38	427	-1.2026	427	1	2	-1	
Alleghany Total			41	-38							0
Anson	H0082	Atrium Health Anson	15	0	1,883	1.5433	10,681	29	44	29	
Anson Total			15	0							29
Ashe	H0099	Ashe Memorial Hospital	76	0	4,013	-1.0183	4,013	11	16	-60	
Ashe Total			76	0							0
Avery	H0037	Charles A. Cannon, Jr. Memorial Hospital****/†	30	0	1,020	-1.1344	1,020	3	4	-26	
Avery Total			30	0							0
Beaufort	H0188	Vidant Beaufort Hospital, A campus of Vidant Medical Center	120	0	14,468	1.0587	18,173	50	75	-45	
Beaufort Total			120	0							0
Bertie	H0268	Vidant Bertie Hospital	6	0	1,149	-1.0311	1,149	3	5	-1	
Bertie Total			6	0							0
Bladen	H0154	Cape Fear Valley-Bladen County Hospital**	48	0	6,145	1.1780	11,834	32	49	1	
Bladen Total			48	0							0
Brunswick	H0150	J. Arthur Doshier Memorial Hospital	25	0	1,591	1.0249	1,756	5	7	-18	
Brunswick	H0250	Novant Health Brunswick Medical Center**	74	0	17,303	1.0249	19,095	52	78	4	
Brunswick Total			99	0							0
Buncombe		2022 Acute Care Bed Need Determination	0	67		1.0423	0	0	0	-67	
Buncombe	H0036	Mission Hospital	733	0	222,951	1.0423	263,126	720	922	189	
Buncombe/Graham/Madison/Yancey Total			733	67							122
Burke	H0062	UNC Health Blue Ridge	293	0	22,992	1.0123	24,142	66	99	-194	
Burke Total			293	0							0

Projections based on four-year average county-specific growth rates, compounded annually over the next four years. Acute Care Days data from 2017, 2018, 2019, 2020 and 2021 were used to generate four-year growth rate.

(ADC= Average Daily Census)

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Cabarrus	H0031	Atrium Health Cabarrus	447	22	129,647	1.0714	170,831	468	599	130	
Cabarrus Total			447	22							130
Caldwell	H0061	Caldwell Memorial Hospital	110	0	23,585	1.0752	31,519	86	129	19	
Caldwell Total			110	0							19
Carteret	H0222	Carteret General Hospital	135	0	23,115	-1.0067	23,115	63	95	-40	
Carteret Total			135	0							0
Catawba	H0223	Catawba Valley Medical Center	200	0	46,369	1.0156	49,331	135	189	-11	
Catawba	H0053	Frye Regional Medical Center	209	0	32,311	1.0156	34,375	94	141	-68	
Catawba Total			409	0							0
Chatham	H0007	Chatham Hospital**	25	0	3,173	1.1527	5,601	15	23	-2	
Chatham Total			25	0							0
Cherokee	H0239	Erlanger Murphy Medical Center**	57	0	5,136	-1.0346	5,136	14	21	-36	
Cherokee/Clay Total			57	0							0
Chowan	H0063	Vidant Chowan Hospital	49	0	5,449	-1.0098	5,449	15	22	-27	
Chowan Total			49	0							0
Cleveland	H0024	Atrium Health Cleveland	288	0	55,322	1.1256	88,800	243	323	35	
Cleveland Total			288	0							35
Columbus	H0045	Columbus Regional Healthcare System**	154	0	30,693	1.2719	80,332	220	293	139	
Columbus Total			154	0							139
Craven	H0201	CarolinaEast Medical Center	307	0	60,993	1.0259	67,571	185	259	-48	
Craven/Jones/Pamlico Total			307	0							0
Cumberland		2022 Acute Care Bed Need Determination	0	29		1.0089	0	0	0	-29	
Cumberland	H0213	Cape Fear Valley Medical Center	524	65	166,507	1.0089	172,520	472	605	16	
Cumberland Total			524	94							0
Dare	H0273	The Outer Banks Hospital	21	0	2,802	1.0454	3,346	9	14	-7	
Dare Total			21	0							0
Davidson	H0027	Lexington Medical Center	94	0	13,710	1.0723	18,129	50	74	-20	

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(ADC= Average Daily Census)

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Includes NICU data and includes UNadjusted CGRM

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Davidson	H0112	Novant Health Thomasville Medical Center	101	0	14,300	1.0723	18,909	52	78	-23	
Davidson Total			195	0							0
Davie	H0171	Davie Medical Center	50	0	5,448	1.2842	14,818	41	61	11	
Davie Total			50	0							11
Duplin	H0166	Vidant Duplin Hospital	56	0	11,320	1.0667	14,653	40	60	4	
Duplin Total			56	0							0
Durham		2021 Acute Care Bed Need Determination	0	40		1.0248	0	0	0	-40	
Durham		2022 Acute Care Bed Need Determination	0	68		1.0248	0	0	0	-68	
Durham	H0233	Duke Regional Hospital	316	0	72,520	1.0248	80,000	219	291	-25	
Durham	H0015	Duke University Hospital***	1,034	14	311,983	1.0248	344,160	942	1,206	158	
Duke University Health System Total			1,350	14	384,503		424,160	1,161	1,497	133	
Durham	H0075	North Carolina Specialty Hospital	18	6	1,777	1.0248	1,960	5	8	-16	
Durham/Caswell/Warren Total			1,368	128							25
Edgecombe	H0258	Vidant Edgecombe Hospital	101	0	13,512	-1.0211	13,512	37	55	-46	
Edgecombe Total			101	0							0
Forsyth	H0209	Novant Health Forsyth Medical Center	865	20	229,503	1.0081	237,073	649	831	-54	
Forsyth	H0229	Novant Health Medical Park Hospital**	22	0	3,037	1.0081	3,137	9	13	-9	
Novant Health Total			887	20	232,540		240,211	658	844	-63	
Forsyth	H0011	North Carolina Baptist Hospital	802	52	221,857	1.0081	229,175	627	803	-51	
Forsyth Total			1,689	72							0
Franklin	H0267-B	Maria Parham-Franklin	70	0		0.0000	0	0	0	-70	
Franklin Total			70	0							0
Gaston	H0105	CaroMont Regional Medical Center	372	43	111,343	1.0417	131,093	359	477	62	
Gaston		CaroMont Regional Medical Center - Belmont	0	54		1.0417	0	0	0	-54	
CaroMont Health Total			372	97	111,343		131,093	359	477	8	
Gaston Total			372	97							0

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Granville	H0098	Granville Health System	62	0	6,815	1.0040	6,924	19	28	-34	
Granville Total			62	0							0
Guilford	H0159	Cone Health	754	0	190,973	1.0161	203,578	557	713	-41	
Guilford	H0052	High Point Regional Health	307	0	56,296	1.0161	60,012	164	230	-77	
Guilford Total			1,061	0							0
Halifax	H0230	Vidant North Hospital	184	0	22,743	1.0312	25,713	70	106	-78	
Halifax/Northampton Total			184	0							0
Harnett	H0224	Cape Fear Valley Betsy Johnson Hospital**	131	0	25,076	1.0821	34,388	94	141	10	
Harnett Total			131	0							0
Haywood	H0025	Haywood Regional Medical Center**	121	0	19,882	1.0342	22,748	62	93	-28	
Haywood Total			121	0							0
Henderson	H0019	AdventHealth Hendersonville**	62	0	11,415	1.0177	12,247	34	50	-12	
Henderson	H0161	Margaret R. Pardee Memorial Hospital	201	0	24,473	1.0177	26,256	72	108	-93	
Henderson Total			263	0							0
Hertford	H0001	Vidant Roanoke-Chowan Hospital	86	0	14,733	1.0078	15,201	42	62	-24	
Hertford/Gates Total			86	0							0
Hoke	H0288	Cape Fear Valley Hoke Hospital	41	0	5,925	1.1447	10,173	28	42	1	
Hoke	H0287	FirstHealth Moore Regional Hospital - Hoke Campus**	8	28	1,332	1.1447	2,287	6	9	-27	
Hoke Total			49	28							0
Iredell	H0248	Davis Regional Medical Center	102	0	6,871	1.0008	6,893	19	28	-74	
Iredell	H0259	Lake Norman Regional Medical Center	123	0	14,664	1.0008	14,711	40	60	-63	
Community Health Systems Total			225	0	21,535		21,604	59	89	-136	
Iredell	H0164	Iredell Memorial Hospital	199	0	37,231	1.0008	37,350	102	143	-56	
Iredell Total			424	0							0
Jackson	H0087	Harris Regional Hospital	86	0	14,419	1.0372	16,688	46	69	-17	
Jackson Total			86	0							0
Johnston	H0151	Johnston Health	179	0	42,670	1.0915	60,558	166	232	53	

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Johnston Total			179	0							53
Lee	H0243	Central Carolina Hospital	127	0	13,539	-1.0489	13,539	37	56	-71	
Lee Total			127	0							0
Lenoir	H0043	UNC Lenoir Health Care	182	0	23,893	-1.0126	23,893	65	98	-84	
Lenoir Total			182	0							0
Lincoln	H0225	Atrium Health Lincoln	101	0	22,858	1.0831	31,451	86	129	28	
Lincoln Total			101	0							28
Macon	H0034	Angel Medical Center	59	-29	5,335	-1.0079	5,335	15	22	-8	
Macon	H0193	Highlands-Cashiers Hospital**	24	0	1,971	-1.0079	1,971	5	8	-16	
Macon Total			83	-29							0
Martin	H0078	Martin General Hospital	49	0	3,275	-1.0420	3,275	9	13	-36	
Martin Total			49	0							0
McDowell	H0097	Mission Hospital McDowell	65	0	7,146	-1.0045	7,146	20	29	-36	
McDowell Total			65	0							0
Mecklenburg		2021 Acute Care Bed Need Determination	0	123		1.0516	0	0	0	-123	
Mecklenburg		2022 Acute Care Bed Need Determination	0	65		1.0516	0	0	0	-65	
Mecklenburg		Atrium Health Lake Norman	0	30		1.0516	0	0	0	-30	
Mecklenburg	H0042	Atrium Health Pineville	233	19	81,641	1.0516	99,846	273	364	112	
Mecklenburg		Atrium Health Steele Creek	0	26		1.0516	0	0	0	-26	
Mecklenburg	H0255	Atrium Health University City	104	0	33,479	1.0516	40,945	112	157	53	
Mecklenburg	H0071	Carolinas Medical Center/Center for Mental Health	1,055	87	342,263	1.0516	418,586	1,146	1,467	325	
Atrium Health Total			1,392	162	457,383		559,377	1,531	1,987	433	
Mecklenburg		Novant Health Ballantyne Medical Center	0	36		1.0516	0	0	0	-36	
Mecklenburg	H0282	Novant Health Huntersville Medical Center**	139	12	32,374	1.0516	39,593	108	152	1	
Mecklenburg	H0270	Novant Health Matthews Medical Center**	154	20	46,389	1.0516	56,733	155	217	43	
Mecklenburg	H0290	Novant Health Mint Hill Medical Center**	36	0	11,236	1.0516	13,742	38	56	20	

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Mecklenburg	H0010	Novant Health Presbyterian Medical Center	519	-22	162,283	1.0516	198,471	543	696	199	
Mecklenburg		Novant Health Steele Creek Medical Center	0	32		1.0516	0	0	0	-32	
Novant Health Total			848	78	252,282		308,539	845	1,121	195	
Mecklenburg Total			2,240	428							441
Mitchell	H0169	Blue Ridge Regional Hospital**	46	0	4,774	1.1963	9,777	27	40	-6	
Mitchell Total			46	0							0
Montgomery	H0003	FirstHealth Montgomery Memorial Hospital**	37	0	1,056	1.3625	3,639	10	15	-22	
Montgomery Total			37	0							0
Moore	H0100	FirstHealth Moore Regional Hospital and Pinehurst Treatment Cntr.	337	47	91,930	-1.0132	91,930	252	335	-49	
Moore Total			337	47							0
Nash	H0228	Nash General Hospital	262	0	45,832	-1.0066	45,832	125	176	-86	
Nash Total			262	0							0
New Hanover	H0221	New Hanover Regional Medical Center**	678	71	198,455	1.0225	216,921	594	760	11	
New Hanover Total			678	71							0
Onslow	H0048	Onslow Memorial Hospital**	162	0	27,928	1.0046	28,443	78	117	-45	
Onslow Total			162	0							0
Orange	H0157	University of North Carolina Hospitals	817	114	250,741	1.0181	269,364	737	944	13	
Orange Total			817	114							0
Pasquotank	H0054	Sentara Albemarle Medical Center	182	0	18,507	-1.0305	18,507	51	76	-106	
Pasquotank/Camden/Currituck/Perquimans Total			182	0							0
Pender	H0115	Pender Memorial Hospital**	43	0	335	-1.2743	335	1	1	-42	
Pender Total			43	0							0
Person	H0066	Person Memorial Hospital	38	0	3,077	-1.0020	3,077	8	13	-25	
Person Total			38	0							0
Pitt	H0104	Vidant Medical Center	847	85	222,320	1.0063	227,943	624	799	-133	
Pitt/Greene/Hyde/Tyrrell Total			847	85							0

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Polk	H0079	St. Luke's Hospital**	25	0	3,053	-1.0590	3,053	8	13	-12	
Polk Total			25	0							0
Randolph	H0013	Randolph Hospital	145	0	14,866	-1.0404	14,866	41	61	-84	
Randolph Total			145	0							0
Richmond	H0158	FirstHealth Moore Regional Hospital - Richmond**	99	0	8,164	-1.0692	8,164	22	34	-65	
Richmond Total			99	0							0
Robeson	H0064	Southeastern Regional Medical Center**	292	0	51,011	-1.0393	51,011	140	196	-96	
Robeson Total			292	0							0
Rockingham	H0023	Annie Penn Hospital**	110	0	12,223	1.0025	12,346	34	51	-59	
Rockingham	H0072	UNC Rockingham Hospital**	108	0	10,396	1.0025	10,501	29	43	-65	
Rockingham Total			218	0							0
Rowan	H0040	Novant Health Rowan Medical Center**	203	0	46,124	1.0540	56,925	156	218	15	
Rowan Total			203	0							0
Rutherford	H0039	Rutherford Regional Medical Center	129	0	10,379	-1.0644	10,379	28	43	-86	
Rutherford Total			129	0							0
Sampson	H0067	Sampson Regional Medical Center**	116	0	9,611	-1.0100	9,611	26	39	-77	
Sampson Total			116	0							0
Scotland	H0107	Scotland Memorial Hospital**	97	0	27,120	1.0891	38,159	104	146	49	
Scotland Total			97	0							49
Stanly	H0008	Atrium Health Stanly	97	0	15,800	1.0805	21,534	59	88	-9	
Stanly Total			97	0							0
Stokes	H0165	LifeBrite Community Hospital of Stokes**	53	0	1,813	1.1362	3,021	8	12	-41	
Stokes Total			53	0							0
Surry	H0049	Hugh Chatham Memorial Hospital	81	0	14,003	1.0642	17,959	49	74	-7	
Surry	H0184	Northern Regional Hospital*	100	-17	17,605	1.0642	22,578	62	93	10	
Surry Total			181	-17							10
Swain	H0069	Swain Community Hospital**	48	0	2,971	1.7734	29,383	80	121	73	

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Swain Total			48	0							73
Transylvania	H0111	Transylvania Regional Hospital**	42	0	5,877	-1.0014	5,877	16	24	-18	
Transylvania Total			42	0							0
Union	H0050	Atrium Health Union	182	0	44,969	1.0839	62,061	170	238	56	
Union Total			182	0							56
Vance	H0267-A	Maria Parham Health**/****	91	0	15,270	-1.0329	15,270	42	63	-28	
Vance/Warren Total			91	0							0
Wake		2022 Acute Care Bed Need Determination	0	45		1.0444	0	0	0	-45	
Wake		Duke Green Level Hospital	0	40		1.0444	0	0	0	-40	
Wake	H0238	Duke Raleigh Hospital	186	-40	50,545	1.0444	60,145	165	231	85	
Duke University Health System Total			186	0	50,545		60,145	165	231	45	
Wake	H0065	Rex Hospital	439	50	131,693	1.0444	156,705	429	549	60	
Wake	H0199	WakeMed	628	36	194,363	1.0444	231,278	633	811	147	
Wake	H0276	WakeMed Cary Hospital	208	0	56,063	1.0444	66,711	183	256	48	
WakeMed Health & Hospitals Total			836	36	250,426		297,989	816	1,066	194	
Wake Total			1,461	131							254
Washington	H0006	Washington Regional Medical Center	25	-13	1,227	1.7296	10,981	30	45	33	
Washington Total			25	-13							33
Watauga	H0077	Watauga Medical Center	117	0	20,861	1.1268	33,628	92	138	21	
Watauga Total			117	0							21
Wayne	H0257	Wayne UNC Health Care	255	0	45,813	-1.0080	45,813	125	176	-79	
Wayne Total			255	0							0
Wilkes	H0153	Wilkes Medical Center**	120	0	12,658	1.0353	14,541	40	60	-60	
Wilkes Total			120	0							0
Wilson	H0210	Wilson Medical Center	270	0	28,670	1.0236	31,474	86	129	-141	
Wilson Total			270	0							0
Yadkin	H0155	Yadkin Valley Community Hospital (closed)^	22	0		0.0000	0	0	0	-22	

Projections based on four-year average county-specific growth rates, compounded annually over the next four years. Acute Care Days data from 2017, 2018, 2019, 2020 and 2021 were used to generate four-year growth rate.
(ADC= Average Daily Census)

ATTACHMENT A

Includes NICU data and includes UNadjusted CGRM

Table 5A: Acute Care Bed Need Projections

2021 Utilization Data from HIDI compiled by the Cecil B. Sheps Center for Health Services Research

Target Occupancy Rates: ADC 1-99: 66.7%, ADC 100-200: 71.4%, ADC > 200 and <=400: 75.2%, ADC>400: 78%

Target Occupancy Factors: ADC 1-99: 1.50, ADC 100-200: 1.40, ADC > 200 and <=400: 1.33, ADC >400: 1.28

A	B	C	D	E	F	G	H	I	J	K	L
Service Area	License Number	Facility Name	Licensed Acute Care Beds	Adjustments for CONs/Previous Need	Inpatient Days of Care	County Growth Rate Multiplier	Projected Days of Care	2025 Projected Average Daily Census (ADC)	2025 Beds Adjusted for Target Occupancy	Projected 2025 Deficit or Surplus (surplus shows as a "-")	2025 Need Determination
Yadkin Total			22	0							0
Grand Total All Hospitals			21,325	1,262	4,933,940		5,721,187				1,528

* Acute care beds in the "Adjustments for CONs/Previous Need" column are to be converted to inpatient psychiatric beds. This conversion is exempt from certificate of need review, pursuant to G.S. 131E-184(c).

** HIDI acute inpatient days of care data and the Division of Health Service Regulation Hospital License Renewal Application days of care data have a greater than ± 5% discrepancy between the two data sources.

*** Duke University Hospital is licensed for 14 acute care beds under Policy AC-3. The 14 beds are not counted when determining acute care bed need.

**** In the past SMFP, Maria Parham had a CON to develop 11 acute care beds pursuant to the need determination in the 2015 SMFP. They relinquished the CON on July 15, 2021.

^ Yadkin Valley Community Hospital has received a CON exemption to reopen no later than January 18, 2025.

† Charles A. Cannon, Jr. Memorial Hospital received a grant from the Dorothea Dix Hospital Property Fund to convert 27 acute care beds to adult psychiatric beds. This project is exempt from certificate of need review and the beds are not yet accounted for in Table 5A.

Note: The decimal part of a number resulting from a calculation is not displayed, but it is used in subsequent calculations. Therefore, calculated totals may not be identical to displayed totals.

Projections based on four-year average county-specific growth rates, compounded annually over the next four years. Acute Care Days data from 2017, 2018, 2019, 2020 and 2021 were used to generate four-year growth rate.
(ADC= Average Daily Census)

A	B	C	D
Service Area	2021 Planning Inventory	Needs: CGRM* UNadjusted	Needs: CGRM adjusted **
Alamance	182		
Anson	15	29	7
Buncombe/Graham/Madison/Yancey	800	122	32
Cabarrus	469	130	51
Caldwell	110	19	
Cleveland	288	35	
Columbus	154	139	
Davie	50	11	
Duplin	56		6
Durham/Caswell/Warren	1,496	25	7
Gaston	469		40
Hoke	77		54
Johnston	179	53	
Lincoln	101	28	
Mecklenburg	2,668	441	221
New Hanover	749		22
Orange	817		21
Rowan	203		
Scotland	97	49	27
Surry	64	10	
Swain	48	73	
Union	182	56	22
Wake	1,592	254	23
Washington	12	33	
Watauga	117	21	
Totals		1,528	533

* CGRM - County Growth Rate Multiplier

** A deficit of 4 beds was calculated for Cumberland. According to the Acute Care Bed Need Methodology, this does render a need determination for that service area.