

Table 11B: County Rate Calculations for Adult Care Home (Assisted Living) Bed Need Determination

A County	B Patients					C Populations					D Rates					E Actual Average Annual Change Rate	F Selected Change Rate (County or Adjusted County)	G Bed Rate per 1,000
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020			
Alamance	570	574	559	595	514	159,371	161,076	165,749	170,483	170,698	3.5766	3.5635	3.3726	3.4901	3.0112	-0.0399	-0.0399	2.6507
Alexander	92	68	82	83	52	38,054	38,452	38,390	38,530	38,524	2.4176	1.7684	2.1360	2.1542	1.3498	-0.1064	-0.1064	0.9190
Alleghany	0	0	0	0	0	11,255	11,233	11,466	11,466	11,558	2.9388	2.8739	2.8239	2.6395	2.4916	-0.0402	-0.0402	0.0000
Anson	49	41	55	59	55	26,155	25,626	25,460	25,290	23,889	1.8734	1.5999	2.1603	2.3329	2.3023	0.0678	0.0377	2.5629
Ashe	103	103	99	97	99	27,318	27,218	27,551	27,861	28,020	3.7704	3.7843	3.5933	3.4816	3.5332	-0.0158	-0.0158	3.3661
Avery	90	89	81	92	90	17,837	18,072	17,913	18,022	18,182	5.0457	4.9247	4.5219	5.1049	4.9500	-0.0018	-0.0018	4.9232
Beaufort	112	114	91	91	84	47,827	47,547	47,438	47,480	47,400	2.3418	2.3976	1.9183	1.9166	1.7722	-0.0631	-0.0631	1.4368
Bertie	89	84	86	85	73	20,413	19,881	19,732	19,636	19,496	4.3600	4.2251	4.3584	4.3288	3.7444	-0.0353	-0.0353	3.3479
Bladen	72	77	73	74	69	35,011	34,393	34,298	34,497	34,421	2.0565	2.2388	2.1284	2.1451	2.0046	-0.0046	-0.0046	1.9770
Brunswick	151	211	251	225	127	125,712	131,726	136,126	142,088	147,644	1.2012	1.6018	1.8439	1.5835	0.8602	-0.0283	-0.0283	0.7871
Buncombe	735	841	813	826	728	257,931	261,532	262,483	264,056	264,408	2.8496	3.2157	3.0973	3.1281	2.7533	-0.0046	-0.0046	2.7157
Burke	282	284	268	310	275	89,274	90,246	91,555	91,810	91,708	3.1588	3.1470	2.9272	3.3765	2.9986	-0.0080	-0.0080	2.9267
Cabarrus	540	565	620	456	532	200,595	205,473	209,303	212,917	216,841	2.6920	2.7498	2.9622	2.1417	2.4534	-0.0082	-0.0082	2.3932
Caldwell	249	198	180	188	101	82,691	83,303	83,597	83,417	84,230	3.0112	2.3769	2.1532	2.2537	1.1991	-0.1815	-0.1815	0.5462
Camden	10	10	11	11	12	10,223	10,359	10,414	10,611	10,575	0.9782	0.9653	1.0563	1.0367	1.1348	0.0393	0.0377	1.2632
Carteret	145	164	191	149	157	70,115	70,190	70,619	71,163	71,352	2.0680	2.3365	2.7047	2.0938	2.2004	0.0281	0.0281	2.3859
Caswell	101	124	113	87	85	23,615	23,699	23,309	23,664	23,462	4.2769	5.2323	4.8479	3.6765	3.6229	-0.0266	-0.0266	3.3340
Catawba	526	518	521	499	501	156,106	156,949	157,978	159,494	160,732	3.3695	3.3004	3.2979	3.1286	3.1170	-0.0191	-0.0191	2.9386
Chatham	322	326	310	353	245	73,176	74,835	74,491	75,994	77,061	4.4003	4.3563	4.1616	4.6451	3.1793	-0.0635	-0.0635	2.5735
Cherokee	21	22	19	19	17	27,878	29,216	29,288	29,630	29,610	0.7533	0.7530	0.6487	0.6412	0.5741	-0.0638	-0.0638	0.4643
Chowan	106	100	106	94	85	14,418	14,292	14,123	14,114	14,114	7.3519	6.9969	7.5055	6.6601	6.0224	-0.0460	-0.0460	5.1913
Clay	50	46	50	50	48	11,089	11,488	11,646	11,860	11,759	4.5090	4.0042	4.2933	4.2159	4.0820	-0.0224	-0.0224	3.8078
Cleveland	315	319	301	293	315	97,997	98,580	98,717	99,776	100,814	3.2144	3.2360	3.0491	2.9366	3.1246	-0.0060	-0.0060	3.0685
Columbus	135	119	72	84	73	57,095	56,941	56,505	56,290	56,002	2.3645	2.0899	1.2742	1.4923	1.3035	-0.1154	-0.1154	0.8521
Craven	404	352	383	320	345	103,256	103,735	103,569	103,779	103,016	3.9126	3.3933	3.6980	3.0835	3.3490	-0.0307	-0.0307	3.0401
Cumberland	554	543	534	492	573	327,820	329,604	329,079	332,455	333,531	1.6900	1.6474	1.6227	1.4799	1.7180	0.0082	0.0082	1.7601
Currituck	61	63	66	72	53	26,194	26,604	27,321	27,526	28,048	2.3288	2.3681	2.4157	2.6157	1.8896	-0.0395	-0.0395	1.6660
Dare	72	68	73	68	67	36,411	36,792	37,197	37,290	38,027	1.9774	1.8482	1.9625	1.8235	1.7619	-0.0270	-0.0270	1.6190
Davidson	515	493	484	415	432	165,953	167,105	167,762	169,468	170,370	3.1033	2.9502	2.8850	2.4488	2.5357	-0.0468	-0.0468	2.1797
Davie	128	136	146	142	114	41,989	42,727	43,193	43,430	43,746	3.0484	3.1830	3.3802	3.2696	2.6060	-0.0324	-0.0324	2.3527
Duplin	312	287	296	315	278	59,868	59,513	59,629	59,736	60,177	5.2115	4.8225	4.9640	5.2732	4.6197	-0.0267	-0.0267	4.2492
Durham	771	702	751	760	632	302,332	306,184	311,649	315,741	321,261	2.5502	2.2927	2.4098	2.4070	1.9672	-0.0584	-0.0584	1.6224
Edgecombe	250	258	148	144	129	54,248	52,856	53,001	52,586	52,024	4.6085	4.8812	2.7924	2.7384	2.4796	-0.1206	-0.1206	1.5822
Forsyth	1,686	1,602	1,692	1,527	1,354	369,688	372,651	377,523	379,693	380,964	4.5606	4.2989	4.4818	4.0217	3.5541	-0.0584	-0.0584	2.9310
Franklin	90	101	124	153	112	64,925	66,514	67,723	69,112	71,196	1.3862	1.5185	1.8310	2.2138	1.5731	0.0552	0.0377	1.7512
Gaston	921	887	784	706	768	214,664	218,527	221,607	222,744	224,168	4.2904	4.0590	3.5378	3.1696	3.4260	-0.0514	-0.0514	2.8979
Gates	51	42	58	68	2	11,701	11,960	12,079	12,132	11,908	4.3586	3.5117	4.8017	5.6050	0.1680	-0.1574	-0.1574	0.0886
Graham	7	7	8	7	0	8,722	8,837	8,775	8,687	8,642	0.8026	0.7921	0.9117	0.8058	2.4916	0.5285	0.0377	0.0000

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	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020			
Granville	156	66	113	74	105	58,919	59,975	61,241	61,406	61,628	2.6477	1.1005	1.8452	1.2051	1.7038	0.0398	0.0377	1.8966
Greene	53	41	49	41	40	21,073	21,522	21,301	21,050	20,951	2.5151	1.9050	2.3004	1.9477	1.9092	-0.0520	-0.0520	1.6112
Guilford	1,625	1,614	1,551	1,587	1,375	521,368	523,962	533,213	539,666	538,431	3.1168	3.0804	2.9088	2.9407	2.5537	-0.0470	-0.0470	2.1936
Halifax	50	45	63	111	91	52,062	51,815	51,704	51,194	50,898	0.9604	0.8685	1.2185	2.1682	1.7879	0.2278	0.0377	1.9903
Harnett	470	515	482	452	448	128,597	130,847	133,869	135,239	136,705	3.6548	3.9359	3.6005	3.3422	3.2771	-0.0249	-0.0249	3.0325
Haywood	268	256	234	221	209	61,126	62,277	62,959	63,328	63,481	4.3844	4.1107	3.7167	3.4898	3.2923	-0.0690	-0.0690	2.6110
Henderson	422	342	328	404	385	113,806	116,173	117,312	118,312	118,563	3.7081	2.9439	2.7960	3.4147	3.2472	-0.0210	-0.0210	3.0424
Hertford	135	132	129	134	116	24,402	23,947	24,031	24,037	23,720	5.5323	5.5122	5.3681	5.5747	4.8904	-0.0285	-0.0285	4.4721
Hoke	124	128	74	144	125	52,833	53,343	54,923	54,842	54,682	2.3470	2.3996	1.3473	2.6257	2.2859	0.1008	0.0377	2.5447
Hyde*	0	24	0	0	0	5,678	5,644	5,449	5,181	5,119	2.9388	4.2523	2.8239	2.6395	2.4916	-0.0026	-0.0026	0.0000
Iredell	747	701	672	643	674	173,206	176,563	179,330	181,380	183,309	4.3128	3.9703	3.7473	3.5450	3.6769	-0.0381	-0.0381	3.2567
Jackson	108	108	101	107	97	41,909	43,116	44,272	44,335	44,354	2.5770	2.5049	2.2814	2.4134	2.1870	-0.0383	-0.0383	1.9357
Johnston	428	396	411	378	323	188,761	194,705	199,768	205,951	211,626	2.2674	2.0338	2.0574	1.8354	1.5263	-0.0919	-0.0919	1.1053
Jones	13	15	13	11	11	10,424	10,356	10,100	10,196	10,067	1.2471	1.4484	1.2871	1.0789	1.0927	-0.0247	-0.0247	1.0116
Lee	174	196	183	171	163	58,907	59,337	60,097	61,690	61,663	2.9538	3.3032	3.0451	2.7719	2.6434	-0.0240	-0.0240	2.4532
Lenoir	245	257	224	251	214	58,273	57,477	57,232	56,372	56,876	4.2043	4.4714	3.9139	4.4526	3.7626	-0.0196	-0.0196	3.5410
Lincoln	291	278	282	280	262	82,475	83,251	84,608	86,453	88,699	3.5283	3.3393	3.3330	3.2388	2.9538	-0.0429	-0.0429	2.5734
Macon	145	148	150	152	140	35,091	35,413	36,117	36,498	37,014	4.1321	4.1793	4.1532	4.1646	3.7824	-0.0210	-0.0210	3.5444
Madison	62	64	66	66	59	21,818	22,240	22,523	22,602	22,500	2.8417	2.8777	2.9303	2.9201	2.6222	-0.0186	-0.0186	2.4756
Martin	145	147	139	64	109	23,649	23,510	23,290	23,150	22,904	6.1313	6.2527	5.9682	2.7646	4.7590	0.0397	0.0377	5.2977
McDowell	273	300	296	292	261	45,485	45,716	46,358	46,684	46,530	6.0020	6.5623	6.3851	6.2548	5.6093	-0.0143	-0.0143	5.3684
Mecklenburg	2,216	2,390	2,370	1,892	2,208	1,055,826	1,077,301	1,093,708	1,108,107	1,118,775	2.0988	2.2185	2.1669	1.7074	1.9736	-0.0056	-0.0056	1.9404
Mitchell	61	64	73	78	70	15,328	15,237	15,234	15,239	15,112	3.9796	4.2003	4.7919	5.1184	4.6321	0.0424	0.0377	5.1564
Montgomery	147	149	140	138	135	27,894	27,865	27,926	27,666	27,753	5.2700	5.3472	5.0132	4.9881	4.8643	-0.0194	-0.0194	4.5812
Moore	496	509	502	499	423	95,789	97,597	99,310	101,180	102,814	5.1780	5.2153	5.0549	4.9318	4.1142	-0.0534	-0.0534	3.4549
Nash	321	302	303	303	274	94,280	94,365	95,072	95,647	96,669	3.4048	3.2003	3.1871	3.1679	2.8344	-0.0439	-0.0439	2.4614
New Hanover	692	707	681	684	580	223,152	227,261	233,595	235,560	235,231	3.1010	3.1110	2.9153	2.9037	2.4657	-0.0536	-0.0536	2.0690
Northampton	158	163	159	159	137	21,037	20,709	20,711	20,527	20,054	7.5106	7.8710	7.6771	7.7459	6.8316	-0.0214	-0.0214	6.3923
Onslow	254	257	264	164	161	196,830	195,621	198,783	201,548	210,056	1.2905	1.3138	1.3281	0.8137	0.7665	-0.1041	-0.1041	0.5271
Orange	347	366	361	362	322	141,704	142,365	144,372	147,093	147,907	2.4488	2.5709	2.5005	2.4610	2.1770	-0.0272	-0.0272	1.9996
Pamlico	38	40	52	67	42	13,177	13,268	13,273	13,266	13,277	2.8838	3.0148	3.9177	5.0505	3.1634	0.0651	0.0377	3.5214
Pasquotank	183	182	181	187	169	39,959	40,598	39,826	39,731	39,952	4.5797	4.4830	4.5448	4.7067	4.2301	-0.0182	-0.0182	3.9986
Pender	163	102	122	117	103	59,105	60,999	62,359	63,406	63,949	2.7578	1.6722	1.9564	1.8453	1.6107	-0.1019	-0.1019	1.1183
Perquimans	20	20	24	22	22	13,699	13,546	13,729	13,639	13,807	1.4600	1.4765	1.7481	1.6130	1.5934	0.0265	0.0265	1.7199
Person	160	161	156	151	153	39,712	39,868	40,014	40,370	40,450	4.0290	4.0383	3.8986	3.7404	3.7824	-0.0154	-0.0154	3.6076
Pitt	463	437	469	453	418	176,311	176,424	179,388	179,731	183,285	2.6260	2.4770	2.6144	2.5204	2.2806	-0.0331	-0.0331	2.0542
Polk	122	117	104	103	109	20,927	21,154	21,468	21,696	21,923	5.8298	5.5309	4.8444	4.7474	4.9719	-0.0370	-0.0370	4.4196
Randolph	433	396	400	341	352	143,091	144,672	143,907	144,914	145,246	3.0260	2.7372	2.7796	2.3531	2.4235	-0.0509	-0.0509	2.0536

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Richmond	137	134	146	146	136	45,301	44,892	45,032	45,079	45,014	3.0242	2.9849	3.2421	3.2388	3.0213	0.0012	0.0012	3.0326
Robeson	417	328	385	363	349	133,117	132,020	131,303	131,056	131,238	3.1326	2.4845	2.9321	2.7698	2.6593	-0.0305	-0.0305	2.4160
Rockingham	287	283	278	252	247	91,981	91,790	91,273	91,788	91,915	3.1202	3.0831	3.0458	2.7455	2.6873	-0.0359	-0.0359	2.3975
Rowan	562	521	443	442	412	140,963	141,917	142,342	142,643	143,274	3.9869	3.6712	3.1122	3.0986	2.8756	-0.0769	-0.0769	2.2118
Rutherford	312	300	320	322	293	67,665	67,796	68,772	68,908	69,049	4.6110	4.4250	4.6531	4.6729	4.2434	-0.0191	-0.0191	4.0001
Sampson	186	187	186	190	161	63,993	63,143	64,019	64,284	64,053	2.9066	2.9615	2.9054	2.9556	2.5135	-0.0331	-0.0331	2.2641
Scotland	88	145	95	101	75	35,626	35,686	35,802	35,732	35,724	2.4701	4.0632	2.6535	2.8266	2.0994	0.0265	0.0265	2.2663
Stanly	177	182	173	182	150	61,447	62,443	63,465	63,727	64,691	2.8805	2.9147	2.7259	2.8559	2.3187	-0.0483	-0.0483	1.9825
Stokes	229	221	220	221	207	46,735	46,728	46,604	46,420	46,684	4.9000	4.7295	4.7206	4.7609	4.4341	-0.0242	-0.0242	4.1122
Surry	364	355	387	336	348	73,195	72,843	73,117	73,232	73,548	4.9730	4.8735	5.2929	4.5882	4.7316	-0.0090	-0.0090	4.6044
Swain	0	0	21	43	47	15,106	14,999	14,862	14,275	14,489	2.9388	2.8739	1.4130	3.0123	3.2438	0.1696	0.0377	3.6110
Transylvania	76	79	98	96	81	34,056	34,464	35,034	35,484	35,511	2.2316	2.2922	2.7973	2.7054	2.2810	0.0144	0.0144	2.3798
Tyrrell**	0	18	49	42	40	4,215	4,138	4,309	4,259	3,767	2.9388	4.3499	11.3715	9.8615	10.6185	0.5096	0.0377	11.8204
Union	435	425	416	400	363	224,030	228,171	232,814	237,287	238,740	1.9417	1.8626	1.7868	1.6857	1.5205	-0.0590	-0.0590	1.2513
Vance	50	49	45	42	37	45,113	44,862	45,157	45,969	45,435	1.1083	1.0922	0.9965	0.9137	0.8144	-0.0735	-0.0735	0.6348
Wake	2,290	2,199	2,219	1,823	2,114	1,029,789	1,048,771	1,073,993	1,089,579	1,102,782	2.2238	2.0967	2.0661	1.6731	1.9170	-0.0290	-0.0290	1.7499
Warren	80	78	73	78	66	20,469	20,133	20,174	20,022	19,767	3.9083	3.8742	3.6185	3.8957	3.3389	-0.0353	-0.0353	2.9857
Washington	42	42	41	45	41	12,508	12,349	12,239	12,071	12,039	3.3579	3.4011	3.3499	3.7279	3.4056	0.0061	0.0061	3.4674
Watauga	83	104	105	101	87	54,340	56,170	57,646	57,899	57,011	1.5274	1.8515	1.8215	1.7444	1.5260	0.0071	0.0071	1.5586
Wayne	490	497	511	529	460	124,900	124,945	124,658	125,825	126,339	3.9231	3.9778	4.0992	4.2043	3.6410	-0.0160	-0.0160	3.4665
Wilkes	140	166	179	183	153	69,663	70,536	69,907	70,200	70,263	2.0097	2.3534	2.5605	2.6068	2.1775	0.0281	0.0281	2.3612
Wilson	383	375	374	293	236	82,152	82,035	81,968	82,282	83,495	4.6621	4.5712	4.5628	3.5609	2.8265	-0.1118	-0.1118	1.8786
Yadkin	53	82	113	115	108	37,521	37,687	38,477	38,196	38,145	1.4125	2.1758	2.9368	3.0108	2.8313	0.2139	0.0377	3.1518
Yancey	78	80	77	80	88	17,980	18,199	18,363	18,623	18,909	4.3382	4.3958	4.1932	4.2958	4.6539	0.0188	0.0188	4.9157
State Total	29,854	29,523	29,374	27,737	26,380	10,158,475	10,272,692	10,401,960	10,508,254	10,587,440	2.9388	2.8739	2.8239	2.6395	2.4916	-0.0402		

* The 2017 patient data point for Hyde County is hypothetical and based on the proportion of the Hyde/Tyrrell service area 2017 population that was located in Hyde County (57.7%) of the total number of ACH patients served by Tyrrell House according to the 2017 facility census data (42). Therefore, the methodology assumes that 57.7% of the 42 patients in Tyrrell House were from Hyde County.

** The 2017 patient data point for Tyrrell County is hypothetical and based on the proportion of the Hyde/Tyrrell service area 2017 population that was located in Tyrrell County (42.3%) of the total number of ACH patients served by Tyrrell House according to the 2017 facility census data (42). Therefore, the methodology assumes that 42.3% of the 42 patients in Tyrrell House were from Tyrrell County.