

## COVID-19 New Hampshire County by County Hospital Bed Demand versus Supply

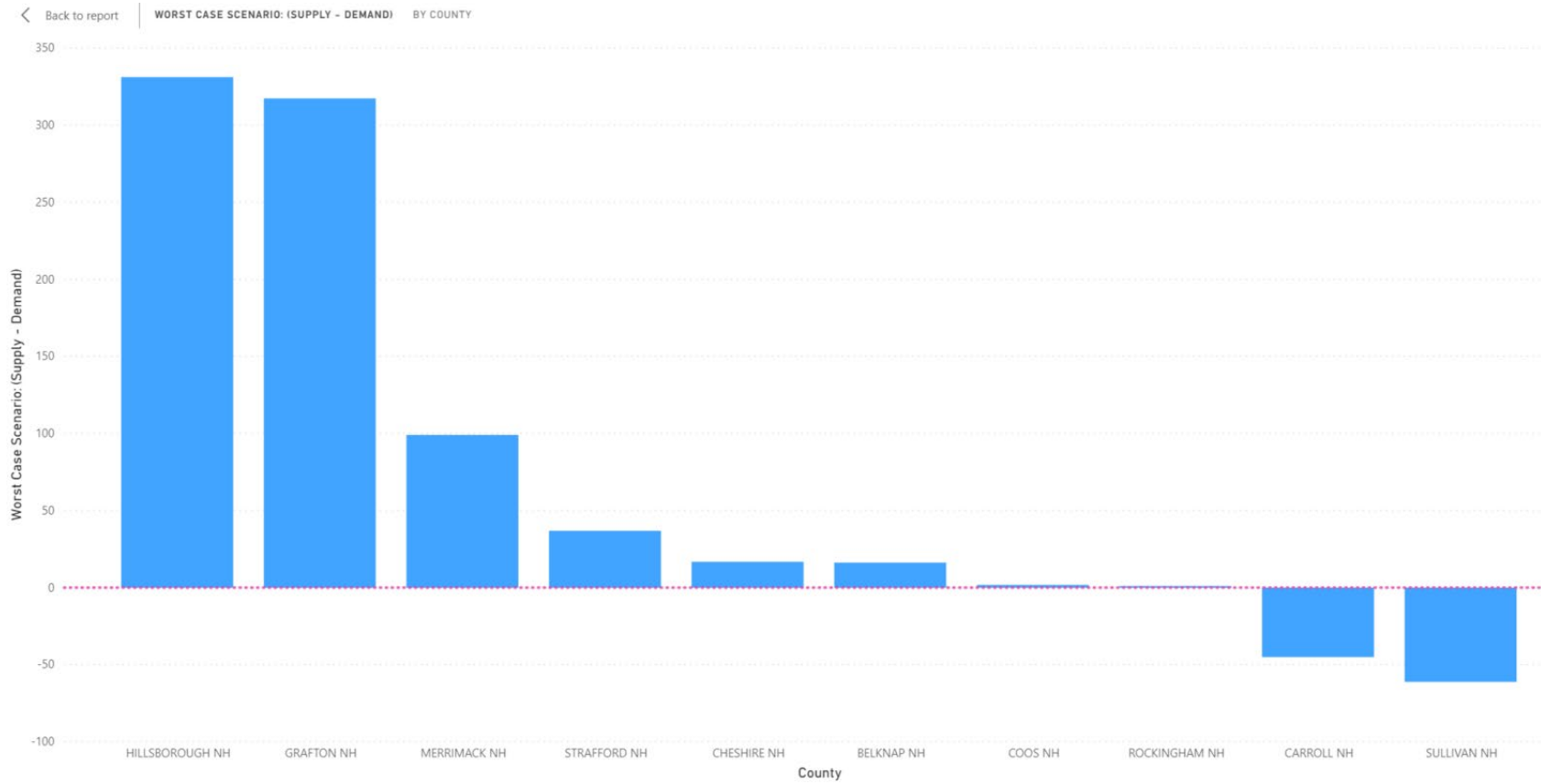


Fig 1: The above figure shows Supply minus Demand at peak using the Imperial-College-COVID19-NPI-modelling-16-03-2020 and the exponential regression model in the article published. All appearing above the red dashed line have capacity even at peak. All Counties that at or falling below the red line are will not be able to meet demand. In this scenario, peak will hit mid-May. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Some Counties will have capacity to redirect to needed areas.

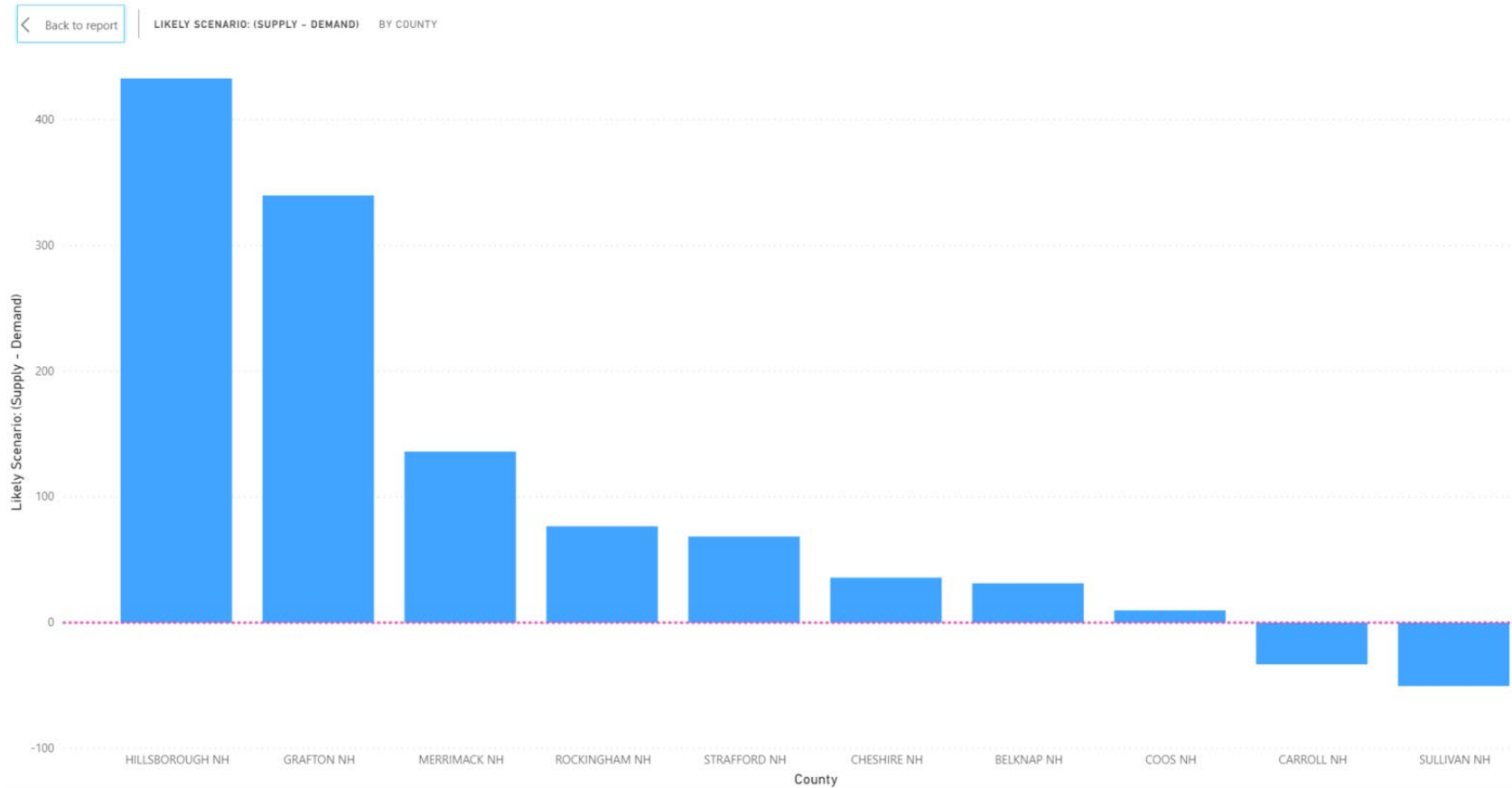


Fig 2: In the more likely scenario where some precautions are taken to flatten the curve, data suggests some Counties will still be unable to meet the needed demand. The peak will hit in early June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Some Counties will have capacity to redirect to needed areas.

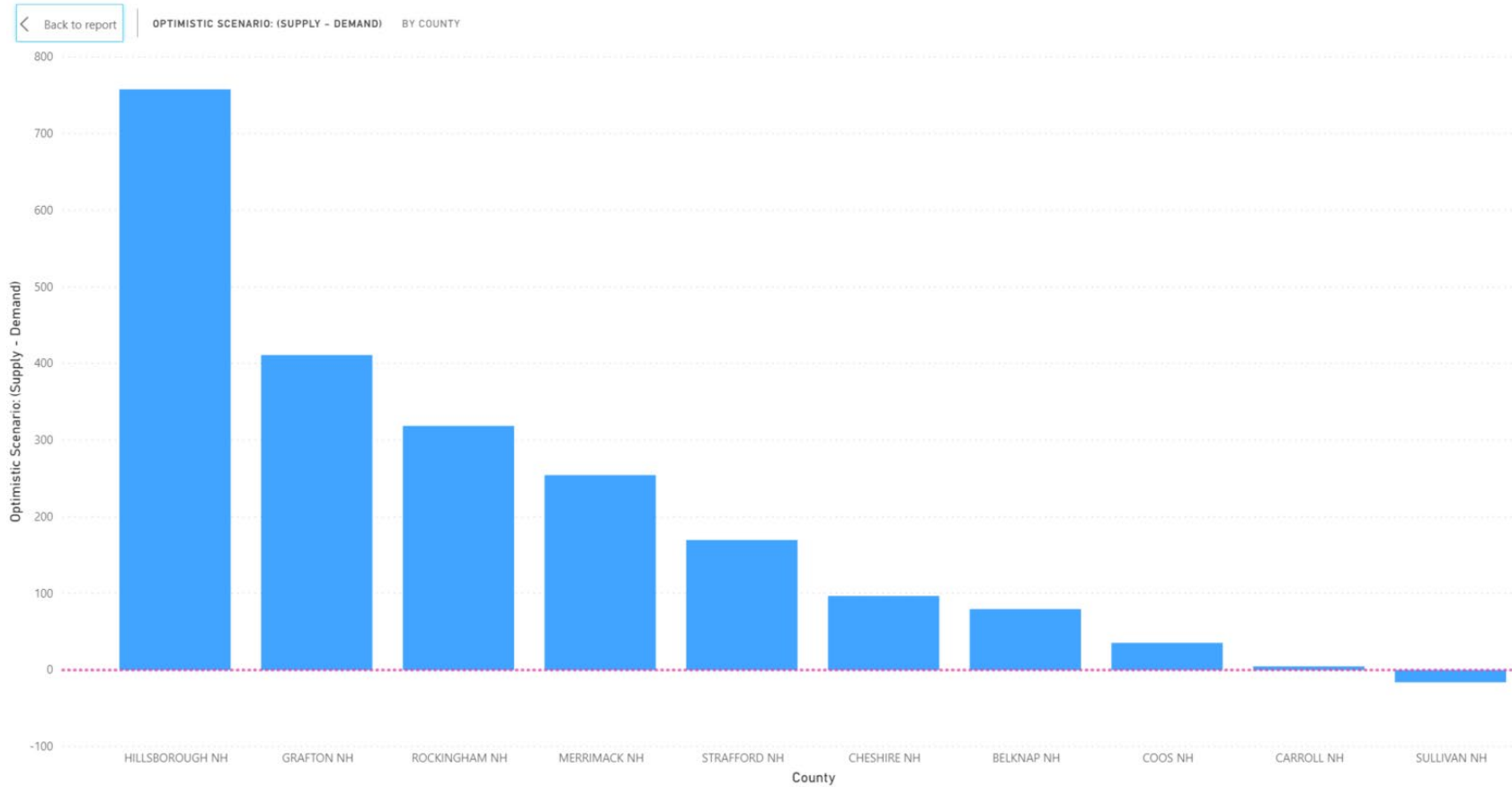


Fig 3: In the scenario where all precautions are taken to flatten the curve, data suggests almost all Counties will be able to meet the needed demand. The peak will hit in June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Several Counties will have capacity to redirect to needed areas.

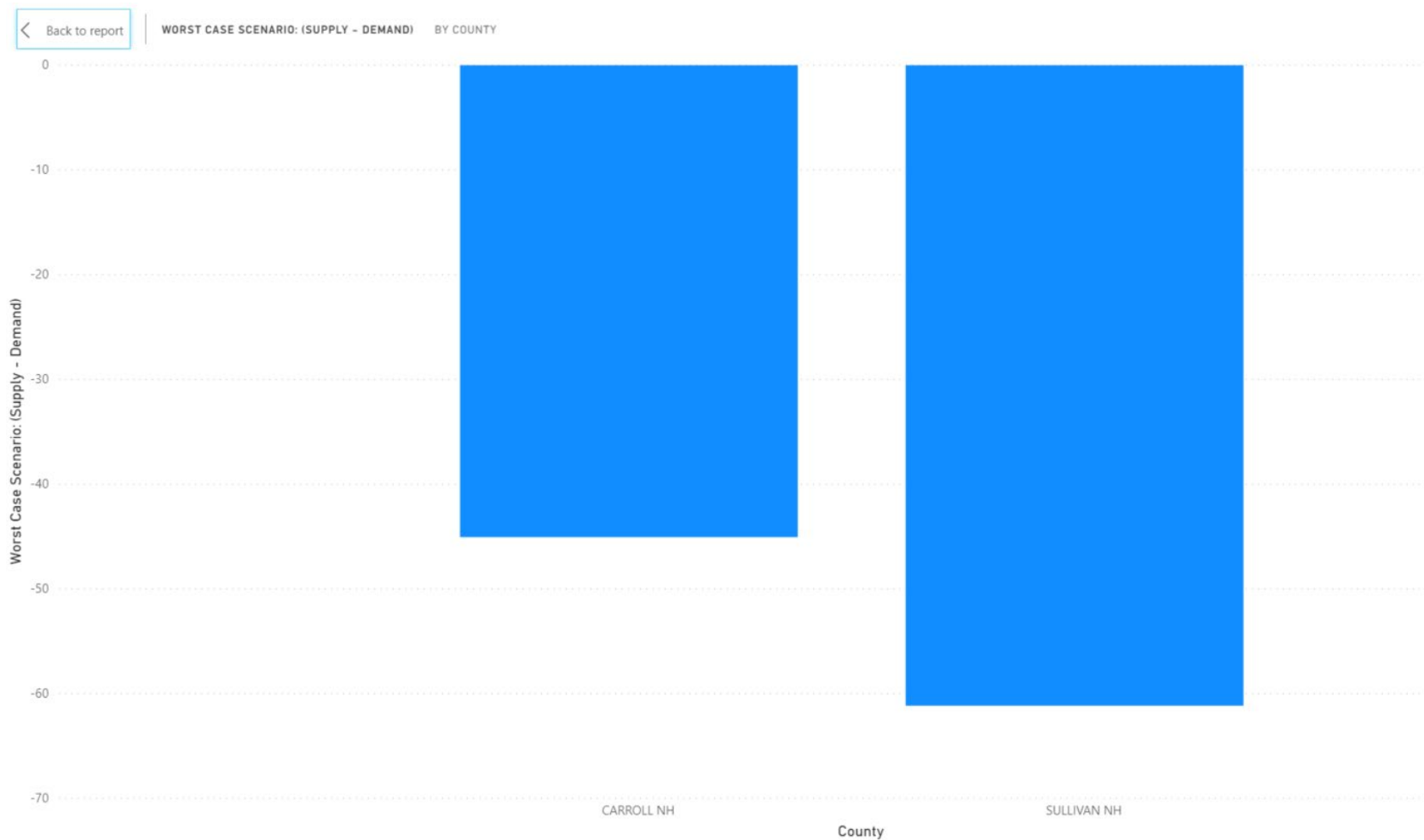


Fig 4: The figure above represents Counties that will run out of beds at peak for the Worst-Case scenario

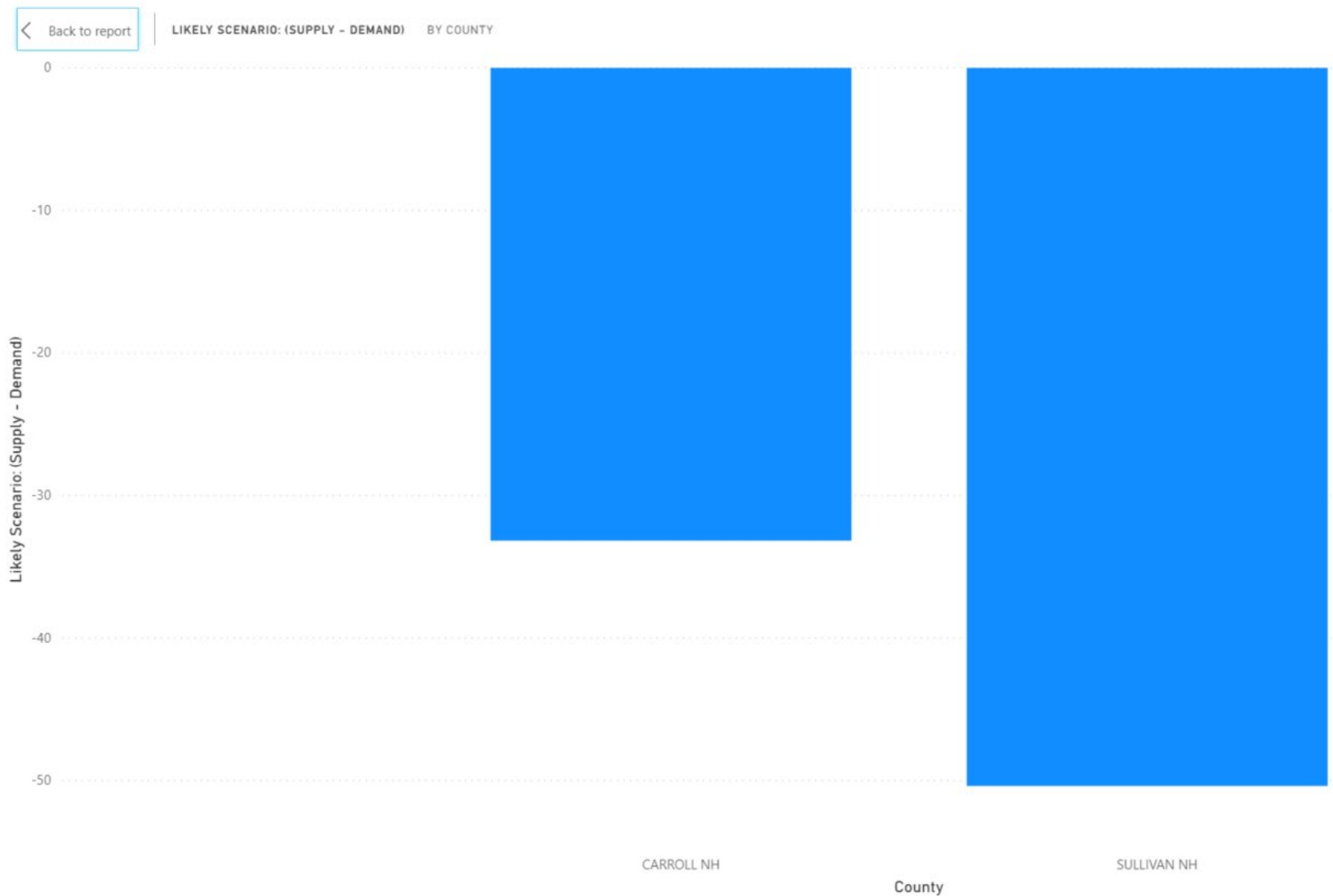


Fig 5: The figure above represents Counties that will run out of beds at peak for the Likely scenario

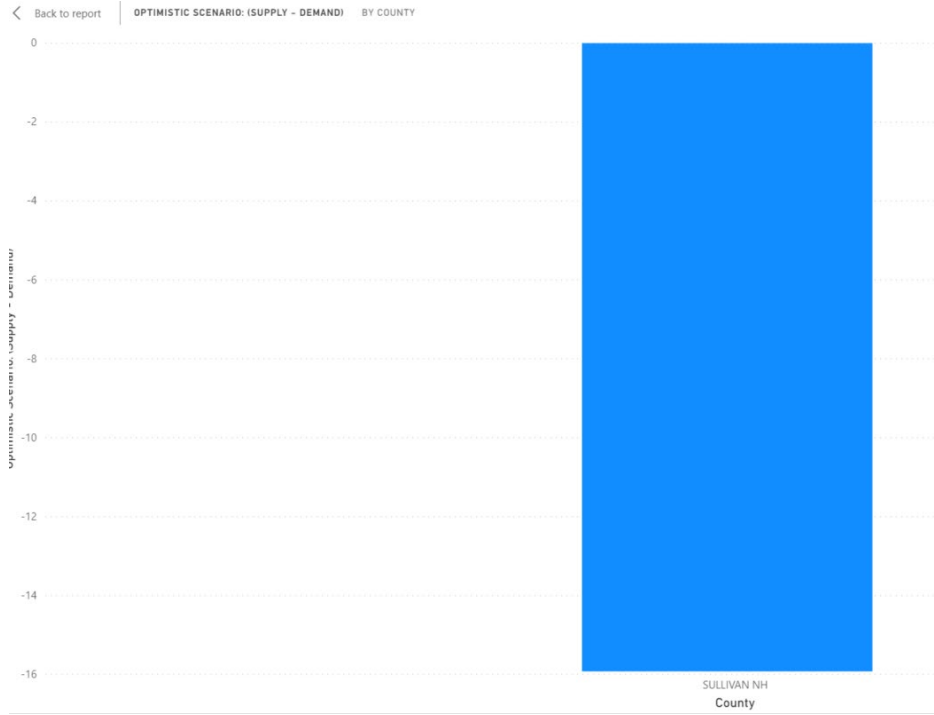


Fig 6: The figure above represents Counties that will run out of beds or do not have a hospital at peak for the Optimistic scenario

County	State	Total Population	65+ Population	Beds	With Full Precautions - Optimistic Scenario of needed Demand for Hospital Beds					With Some Precautions - Likely Scenario of needed Demand for Hospital Beds					With No Precautions - Worst Case Scenario of needed Demand for Hospital Beds					Counties to run out of beds (all precautions - Optimistic)	Counties to run out of beds (some precautions - Likely)	Counties to run out of beds (no precautions - Worstcase)		
					O-April	O-May	O-June	O-Mid-June	O-July	O-August	L-Apr	L-May	L-June	L-July	L-August	W-April	W-May	Mid-May	W-June				W-July	W-August
BELKNAP NH	NH	60383	15543	137	6	6	54	57	30	6	6	30	106	30	6	6	60	166	121	9	6			x
CARROLL NH	NH	47524	14925	50	5	5	43	45	24	5	5	24	83	24	5	5	48	131	95	7	5		x	
CHESHIRE NH	NH	76109	17434	169	8	8	68	72	38	8	8	38	133	38	8	8	76	209	152	11	8			x
COOS NH	NH	32119	8744	66	3	3	29	31	16	3	3	16	56	16	3	3	32	88	64	5	3			x
GRAFTON NH	NH	89280	21482	496	9	9	80	85	45	9	9	45	156	45	9	9	89	246	179	13	9			
HILLSBOROUGH NH	NH	406371	76927	1144	41	41	366	386	203	41	41	203	711	203	41	41	406	1118	813	61	41			
MERRIMACK NH	NH	147958	30970	395	15	15	133	141	74	15	15	74	259	74	15	15	148	407	296	22	15			x
ROCKINGHAM NH	NH	302479	64278	606	30	30	272	287	151	30	30	151	529	151	30	30	302	832	605	45	30			x
STRAFFORD NH	NH	126552	22935	290	13	13	114	120	63	13	13	63	221	63	13	13	127	348	253	19	13			x
SULLIVAN NH	NH	43073	10891	25	4	4	39	41	22	4	4	22	75	22	4	4	43	118	86	6	4	x	x	x

Table 1: Table with Data showing all three scenarios