

COVID-19 New York County by County Hospital Bed Demand versus Supply

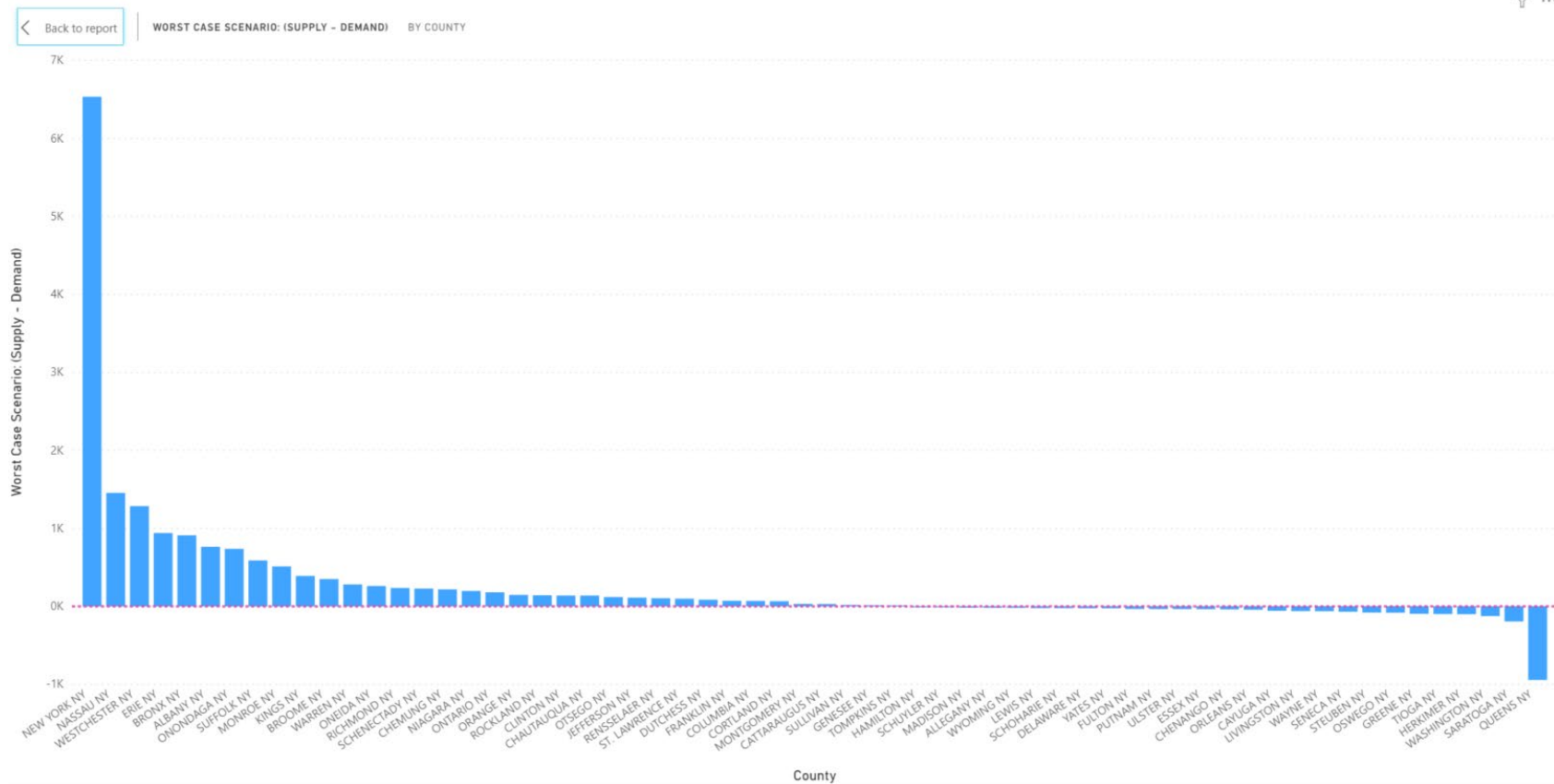


Fig 1: The above figure shows Supply minus Demand at peak using the Imperial-College-COVID19-NPI-modelling-16-03-2020 and the exponential regression model in the article published. All appearing above the red dashed line have capacity even at peak. All Counties that at or falling below the red line are 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.

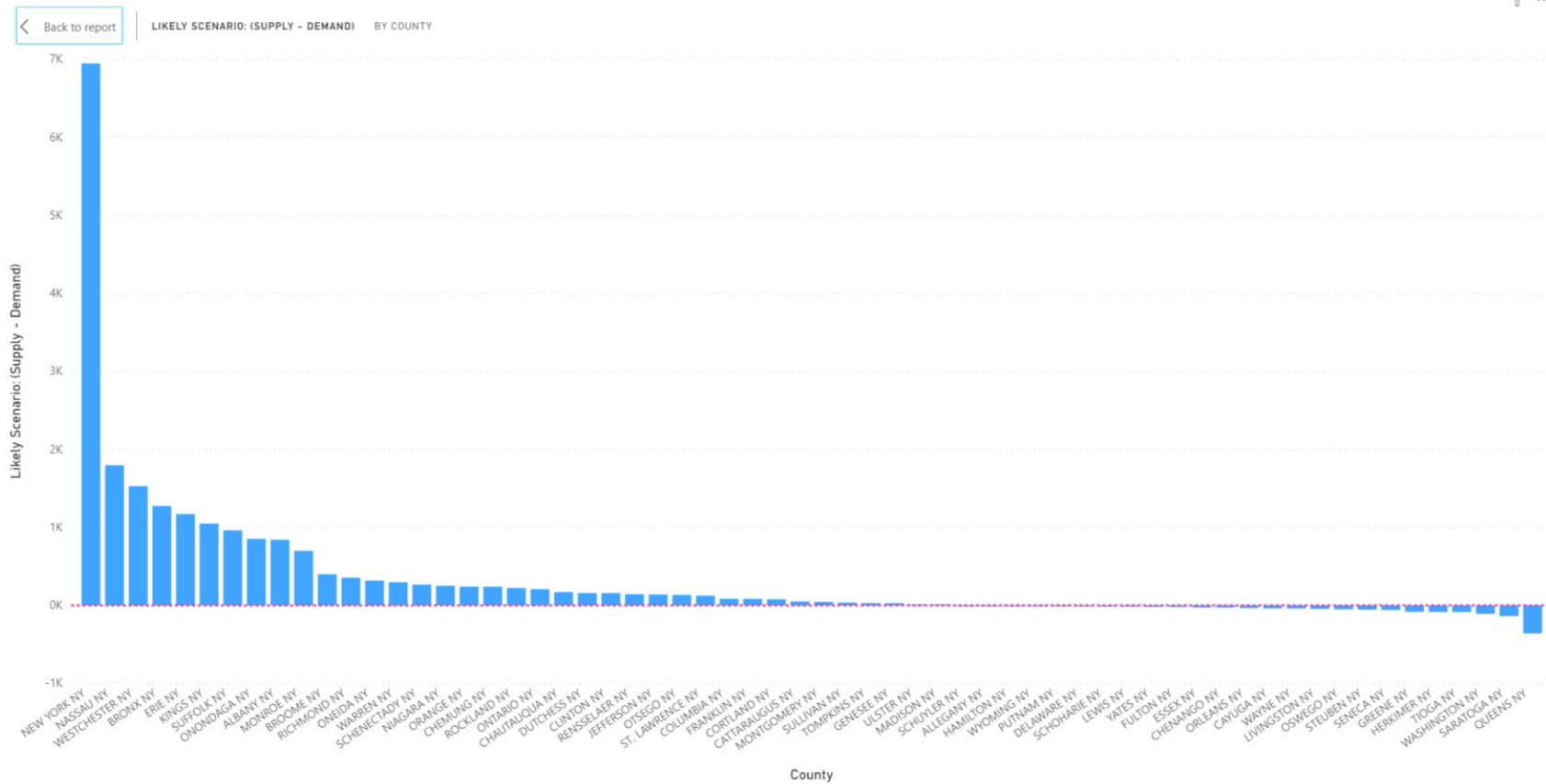


Fig 2: In the more likely scenario where some precautions are taken to flatten the curve, data suggests some Counties will still be unable to meet the needed demand. The peak will hit in early June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made.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

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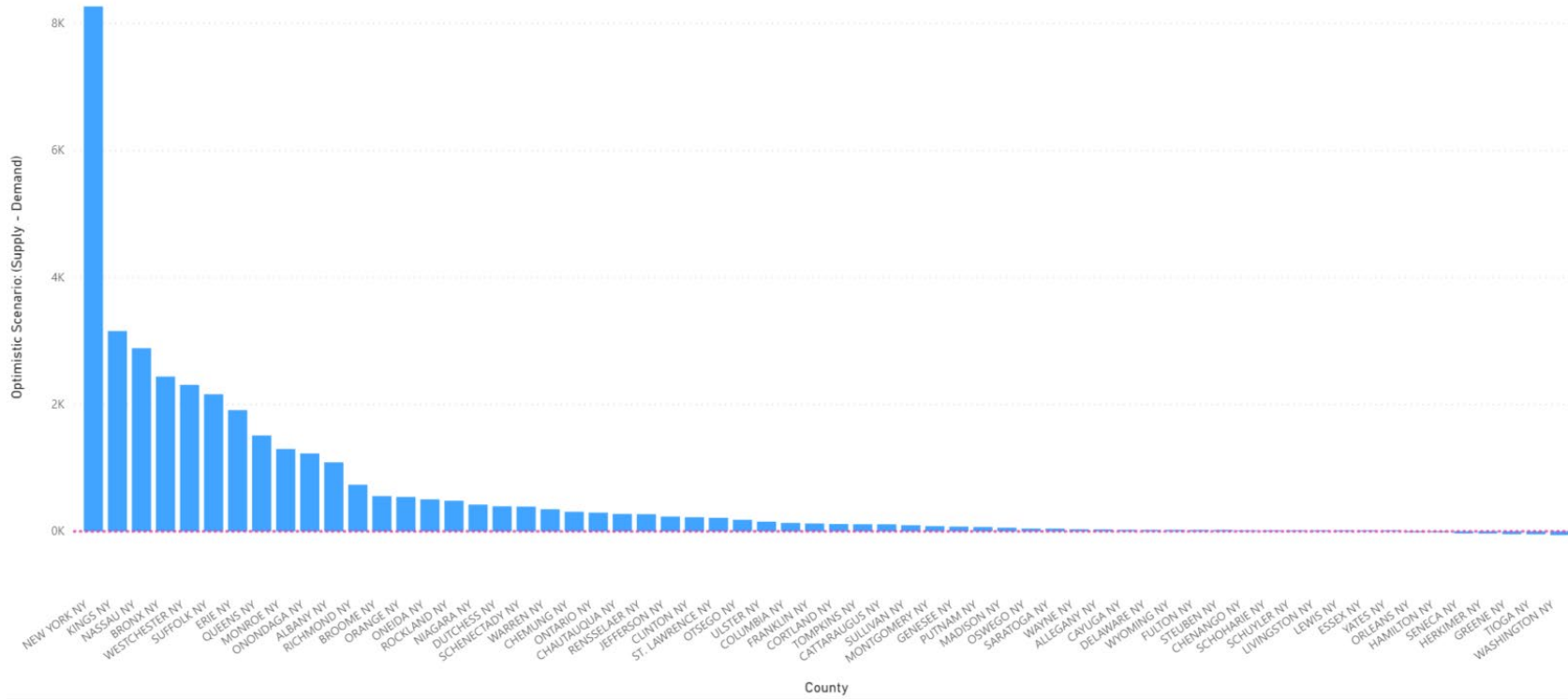


Fig 3: In the scenario where all precautions are taken to flatten the curve, data suggests almost all Counties will be able to meet the needed demand. The peak will hit in June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Several Counties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

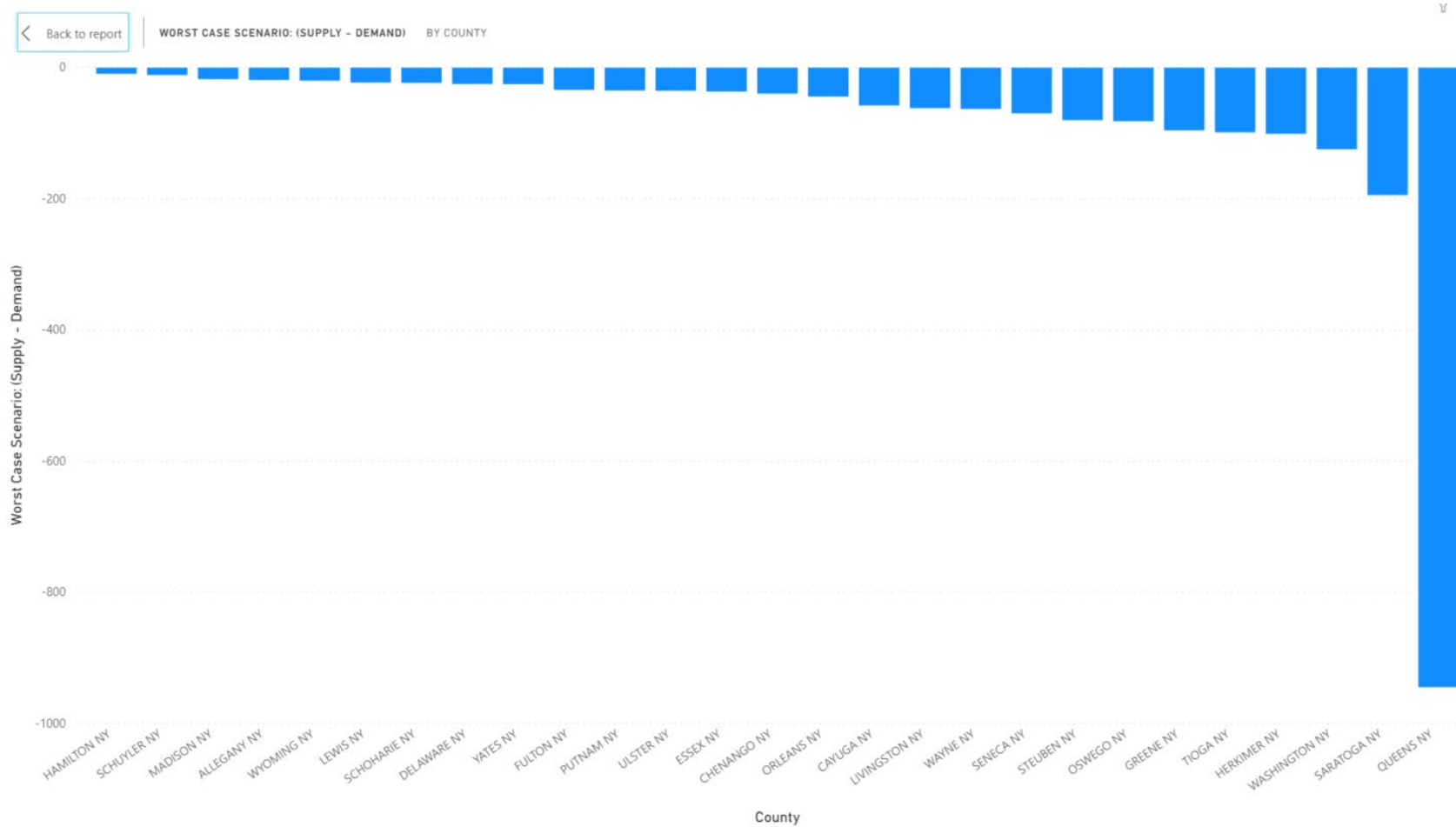


Fig 4: The figure above represents Counties that will run out of beds at peak for the Worst-Case scenario

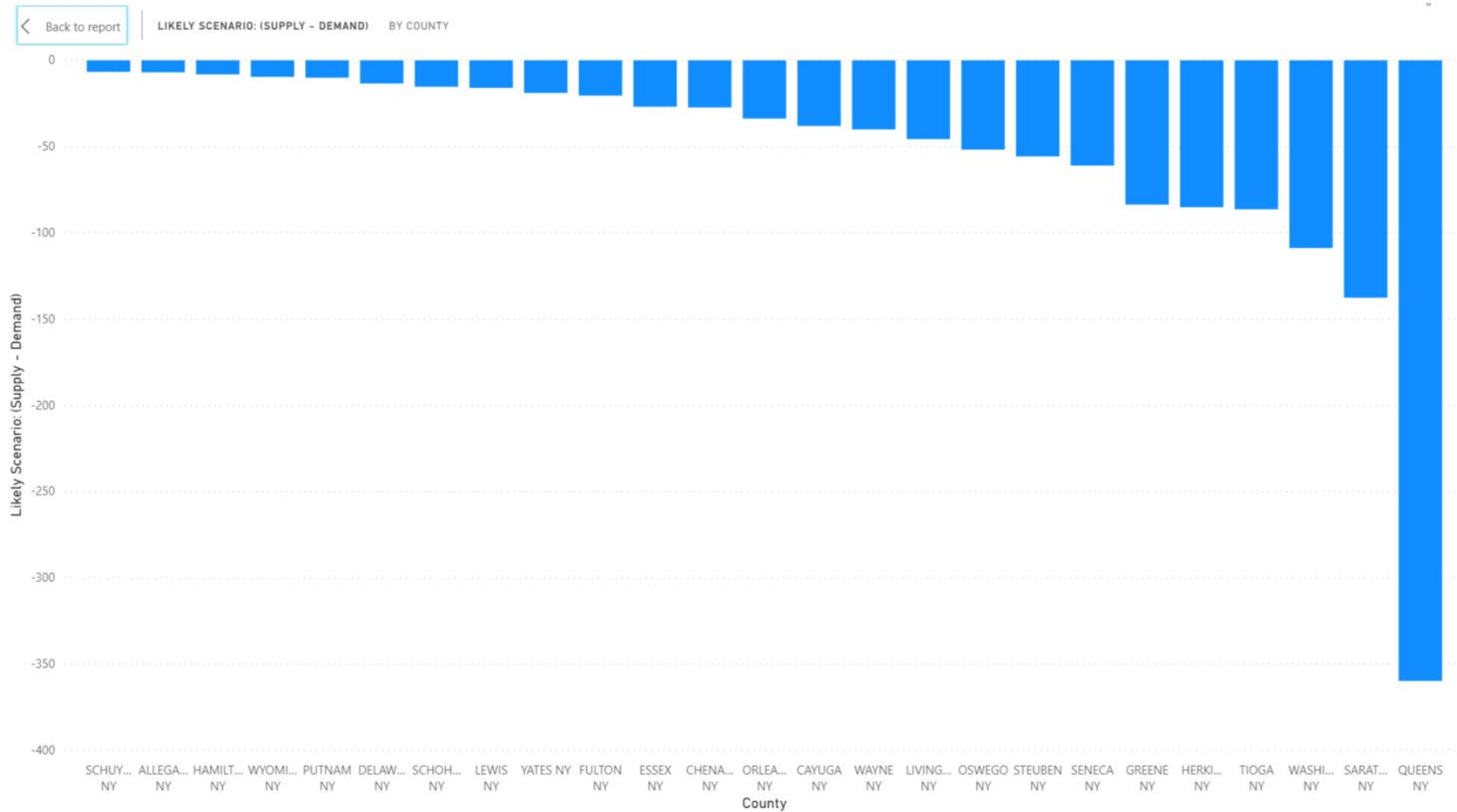


Fig 5: The figure above represents Counties that will run out of beds at peak for the Likely scenario

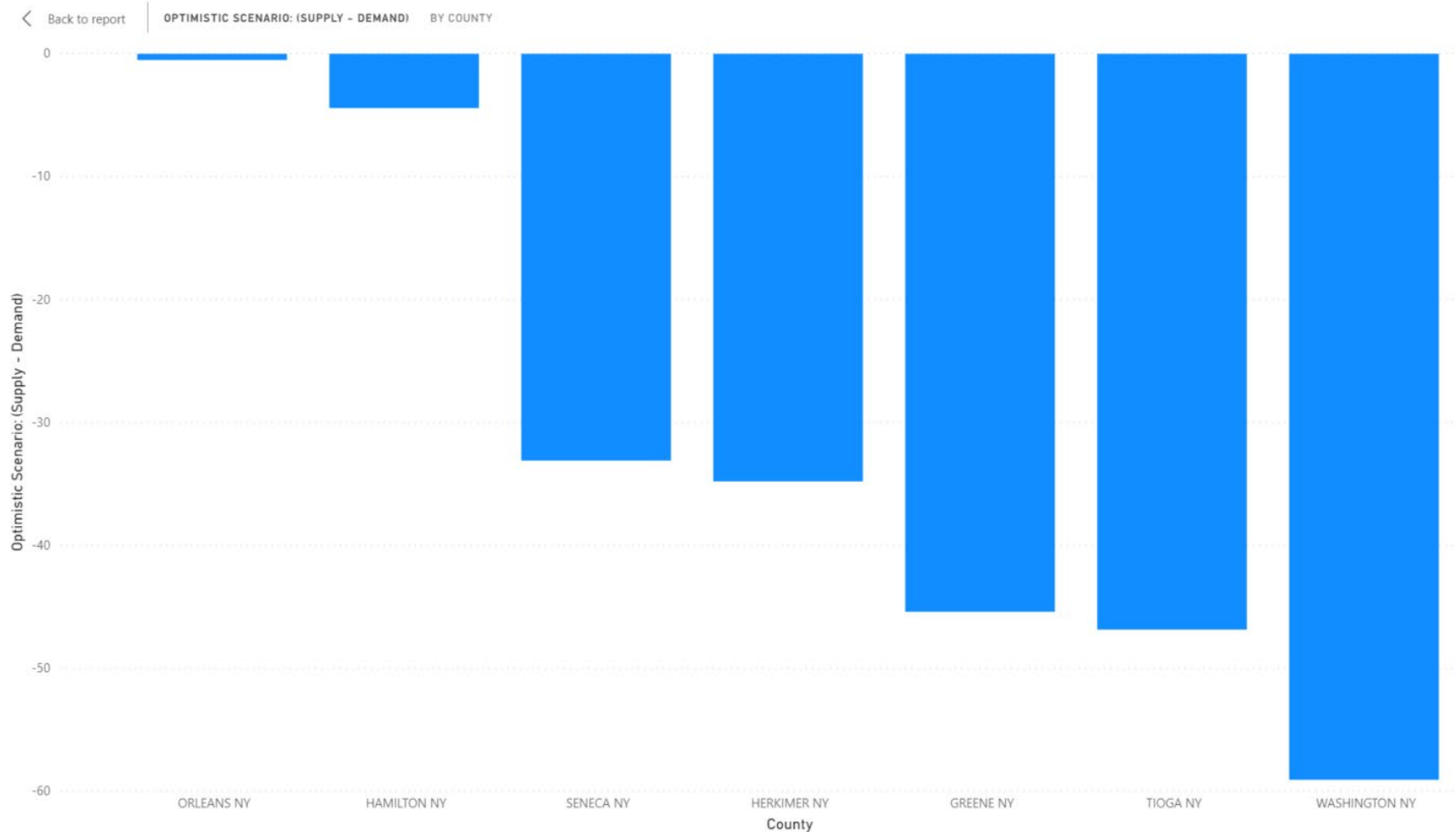


Fig 6: The figure above represents Counties that will run out of beds or do not have a hospital at peak for the Optimistic scenario

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
ALBANY NY	NY	308580	60055	1381	31	31	278	293	154	31	31	154	540	154	31	31	309	849	617	46	31			
ALLEGANY NY	NY	47400	10243	76	5	5	43	45	24	5	5	24	83	24	5	5	47	130	95	7	5	x		x
BRONX NY	NY	1455846	220074	3822	146	146	1310	1383	728	146	146	728	2548	728	146	146	1456	4004	2912	218	146			x
BROOME NY	NY	196124	42272	742	20	20	177	186	98	20	20	98	343	98	20	20	196	539	392	29	20			
CATTARAUGUS NY	NY	78175	17566	186	8	8	70	74	39	8	8	39	137	39	8	8	78	215	156	12	8			x
CAYUGA NY	NY	78319	17095	99	8	8	70	74	39	8	8	39	137	39	8	8	78	215	157	12	8	x		x
CHAUTAUQUA NY	NY	130846	30246	399	13	13	118	124	65	13	13	65	229	65	13	13	131	360	262	20	13			
CHEMUNG NY	NY	86883	18518	391	9	9	78	83	43	9	9	43	152	43	9	9	87	239	174	13	9			
CHENANGO NY	NY	48763	11617	58	5	5	44	46	24	5	5	24	85	24	5	5	49	134	98	7	5	x		x
CLINTON NY	NY	81224	16349	300	8	8	73	77	41	8	8	41	142	41	8	8	81	223	162	12	8			
COLUMBIA NY	NY	61481	16798	192	6	6	55	58	31	6	6	31	108	31	6	6	61	169	123	9	6			
CORTLAND NY	NY	48334	9173	162	5	5	44	46	24	5	5	24	85	24	5	5	48	133	97	7	5			
DELAWARE NY	NY	45950	12924	67	5	5	41	44	23	5	5	23	80	23	5	5	46	126	92	7	5	x		x
DUTCHESS NY	NY	295685	60291	676	30	30	266	281	148	30	30	148	517	148	30	30	296	813	591	44	30			x
ERIE NY	NY	923995	191700	2788	92	92	832	878	462	92	92	462	1617	462	92	92	924	2541	1848	139	92			
ESSEX NY	NY	38233	10076	40	4	4	34	36	19	4	4	19	67	19	4	4	38	105	76	6	4	x		x
FRANKLIN NY	NY	51054	10754	173	5	5	46	49	26	5	5	26	89	26	5	5	51	140	102	8	5			
FULTON NY	NY	53955	12268	74	5	5	49	51	27	5	5	27	94	27	5	5	54	148	108	8	5	x		x
GENESEE NY	NY	58537	12353	131	6	6	53	56	29	6	6	29	102	29	6	6	59	161	117	9	6	x		x
GREENE NY	NY	47791	12224	0	5	5	43	45	24	5	5	24	84	24	5	5	48	131	96	7	5	x		x
HAMILTON NY	NY	4646	1572	0	0	0	4	4	2	0	0	2	8	2	0	0	5	13	9	1	0	x		x
HERKIMER NY	NY	62943	14469	25	6	6	57	60	31	6	6	31	110	31	6	6	63	173	126	9	6	x		x
JEFFERSON NY	NY	116567	17943	344	12	12	105	111	58	12	12	58	204	58	12	12	117	321	233	17	12			
KINGS NY	NY	2635121	428960	5660	264	264	2372	2503	1318	264	264	1318	4611	1318	264	264	2635	7247	5270	395	264			x
LEWIS NY	NY	26845	5620	31	3	3	24	26	13	3	3	13	47	13	3	3	27	74	54	4	3	x		x
LIVINGSTON NY	NY	64373	13505	67	6	6	58	61	32	6	6	32	113	32	6	6	64	177	129	10	6			x
MADISON NY	NY	71760	15421	126	7	7	65	68	36	7	7	36	126	36	7	7	72	197	144	11	7			x
MONROE NY	NY	748680	148229	2009	75	75	674	711	374	75	75	374	1310	374	75	75	749	2059	1497	112	75			x
MONTGOMERY NY	NY	49500	10459	130	5	5	45	47	25	5	5	25	87	25	5	5	50	136	99	7	5			x
NASSAU NY	NY	1363069	278254	4181	136	136	1227	1295	682	136	136	682	2385	682	136	136	1363	3748	2726	204	136			
NEW YORK NY	NY	1653877	306089	9842	165	165	1488	1571	827	165	165	827	2894	827	165	165	1654	4548	3308	248	165			
NIAGARA NY	NY	212675	47311	623	21	21	191	202	106	21	21	106	372	106	21	21	213	585	425	32	21			
ONEIDA NY	NY	232324	49322	725	23	23	209	221	116	23	23	116	407	116	23	23	232	639	465	35	23			
ONONDAGA NY	NY	467669	91268	1672	47	47	421	444	234	47	47	234	818	234	47	47	468	1286	935	70	47			
ONTARIO NY	NY	109491	25282	399	11	11	99	104	55	11	11	55	192	55	11	11	109	301	219	16	11			
ORANGE NY	NY	378174	63552	902	38	38	340	359	189	38	38	189	662	189	38	38	378	1040	756	57	38			x
ORLEANS NY	NY	41584	8783	39	4	4	37	40	21	4	4	21	73	21	4	4	42	114	83	6	4	x		x
OSWEGO NY	NY	119833	23675	158	12	12	108	114	60	12	12	60	210	60	12	12	120	330	240	18	12	x		x
OTSEGO NY	NY	60750	14686	240	6	6	55	58	30	6	6	30	106	30	6	6	61	167	122	9	6			
PUTNAM NY	NY	99464	21005	164	10	10	90	94	50	10	10	50	174	50	10	10	99	274	199	15	10	x		x
QUEENS NY	NY	2339280	422819	3734	234	234	2105	2222	1170	234	234	1170	4094	1170	234	234	2339	6433	4679	351	234			x
RENSELAER NY	NY	159800	32286	423	16	16	144	152	80	16	16	80	280	80	16	16	160	439	320	24	16			x
RICHMOND NY	NY	475948	93052	1187	48	48	428	452	238	48	48	238	833	238	48	48	476	1309	952	71	48			x
ROCKLAND NY	NY	325027	59074	791	33	33	293	309	163	33	33	163	569	163	33	33	325	894	650	49	33			x
ST. LAWRENCE NY	NY	110817	22062	319	11	11	100	105	55	11	11	55	194	55	11	11	111	305	222	17	11			
SARATOGA NY	NY	226632	47750	259	23	23	204	215	113	23	23	113	397	113	23	23	227	623	453	34	23			x
SCHEENECTADY NY	NY	155239	30245	538	16	16	140	147	78	16	16	78	272	78	16	16	155	427	310	23	16			
SCHOHARIE NY	NY	31611	7840	40	3	3	28	30	16	3	3	16	55	16	3	3	32	87	63	5	3	x		x
SCHUYLER NY	NY	18112	4466	25	2	2	16	17	9	2	2	9	32	9	2	2	18	50	36	3	2	x		x
SENECA NY	NY	34843	7599	0	3	3	31	33	17	3	3	17	61	17	3	3	35	96	70	5	3	x		x
STEBEN NY	NY	97539	22034	115	10	10	88	93	49	10	10	49	171	49	10	10	98	268	195	15	10	x		x
SUFFOLK NY	NY	1497595	294901	3583	150	150	1348	1423	749	150	150	749	2621	749	150	150	1498	4118	2995	225	150			x
SULLIVAN NY	NY	75783	17142	169	8	8	68	72	38	8	8	38	133	38	8	8	76	208	152	11	8	x		x
TIOGA NY	NY	49322	11260	0	5	5	44	47	25	5	5	25	86	25	5	5	49	136	99	7	5	x		x
TOMPKINS NY	NY	104415	17180	212	10	10	94	99	52	10	10	52	183	52	10	10	104	287	209	16	10			x
ULSTER NY	NY	180129	41343	325	18	18	162	171	90	18	18	90	315	90	18	18	180	495	360	27	18			x
WARREN NY	NY	64701	16183	410	6	6	58	61	32	6	6	32	113	32	6	6	65	178	129	10	6			
WASHINGTON NY	NY	62183	14148	0	6	6	56	59	31	6	6	31	109	31	6	6	62	171	124	9	6	x		x
WAYNE NY	NY	91442	20332	120	9	9	82	87	46	9	9	46	160	46	9	9	91	251	183	14	9	x		x
WESTCHESTER NY	NY	975321	188943	3235	98	98	878	927	488	98	98	488	1707	488	98	98	975	2682	1951	146	98			
WYOMING NY	NY	40886	8866	62	4	4	37	39	20	4	4	20	72	20	4	4	41	112	82	6	4	x		x
YATES NY	NY	25083	6193	25	3	3	23	24	13	3	3	13	44	13	3	3	25	69	50	4	3	x		x

Table 1: Table with Data showing all three scenarios