

COVID-19 Nevada County by County Hospital Bed Demand versus Supply

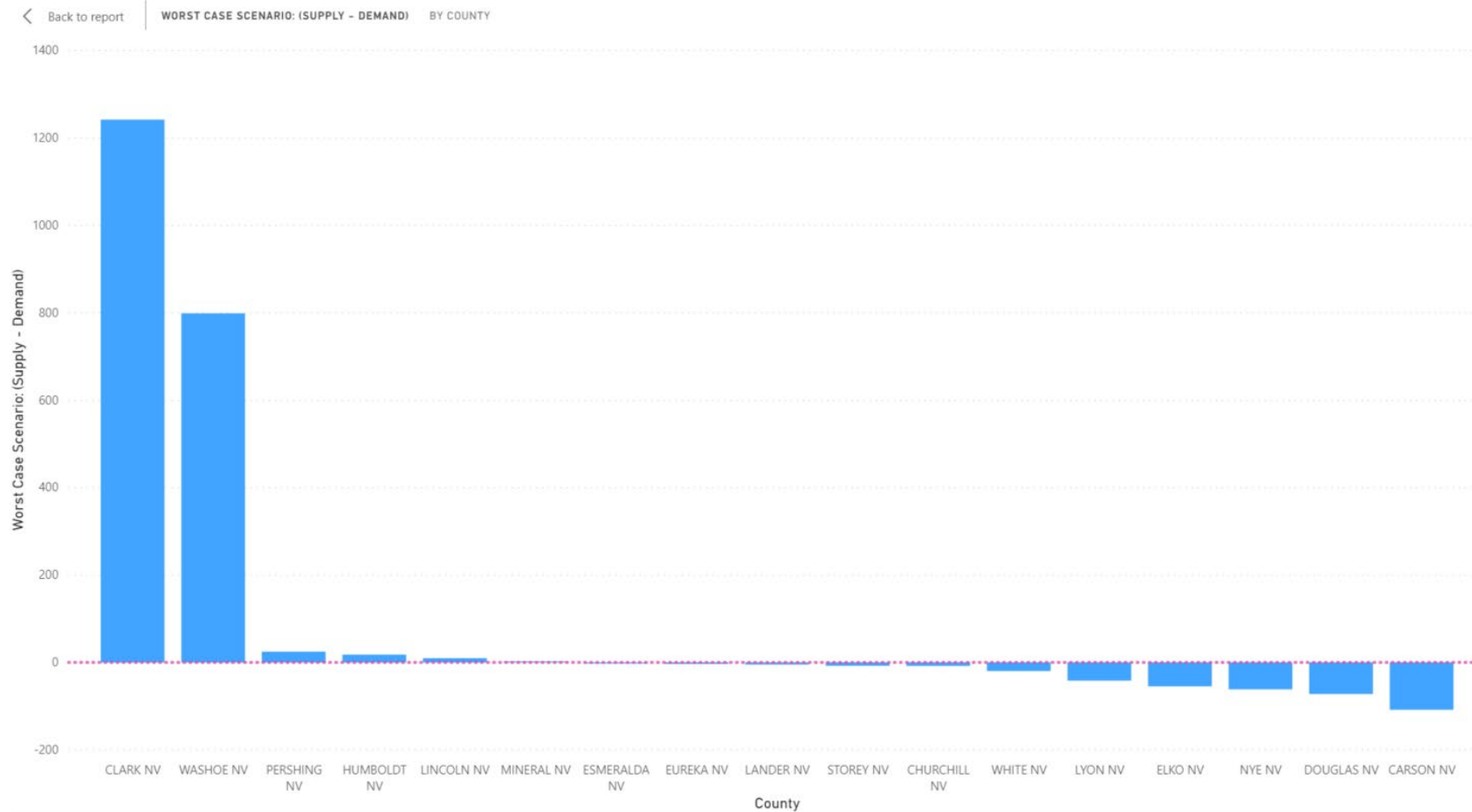


Fig 1: The above figure shows Supply minus Demand at peak using the Imperial-College-COVID19-NPI-modelling-16-03-2020 and the exponential regression model in the article published. All appearing above the red dashed line have capacity even at peak. All Counties that at or falling below the red line are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

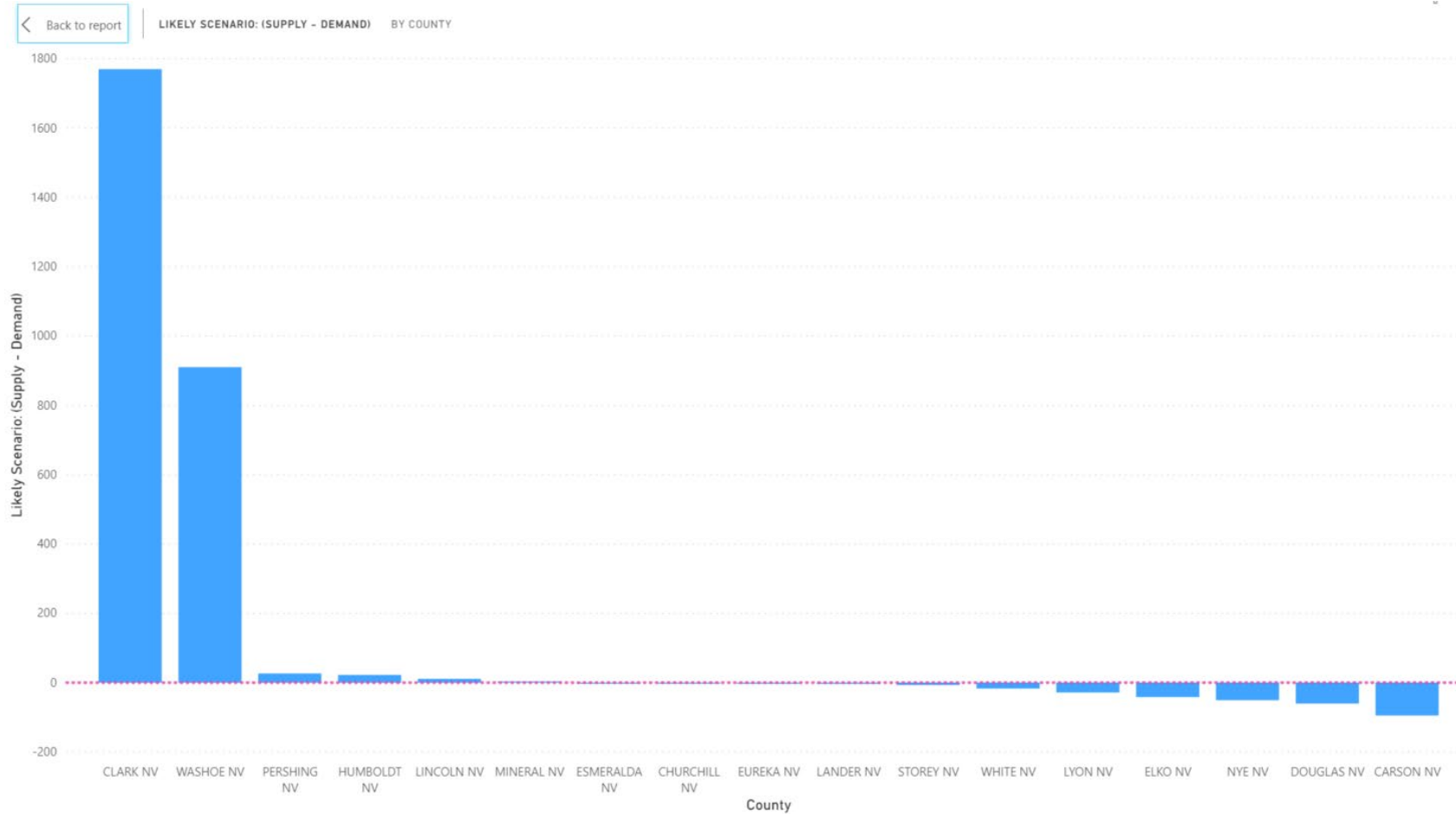


Fig 2: In the more likely scenario where some precautions are taken to flatten the curve, data suggests some Counties will still be unable to meet the needed demand. The peak will hit in early June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made.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

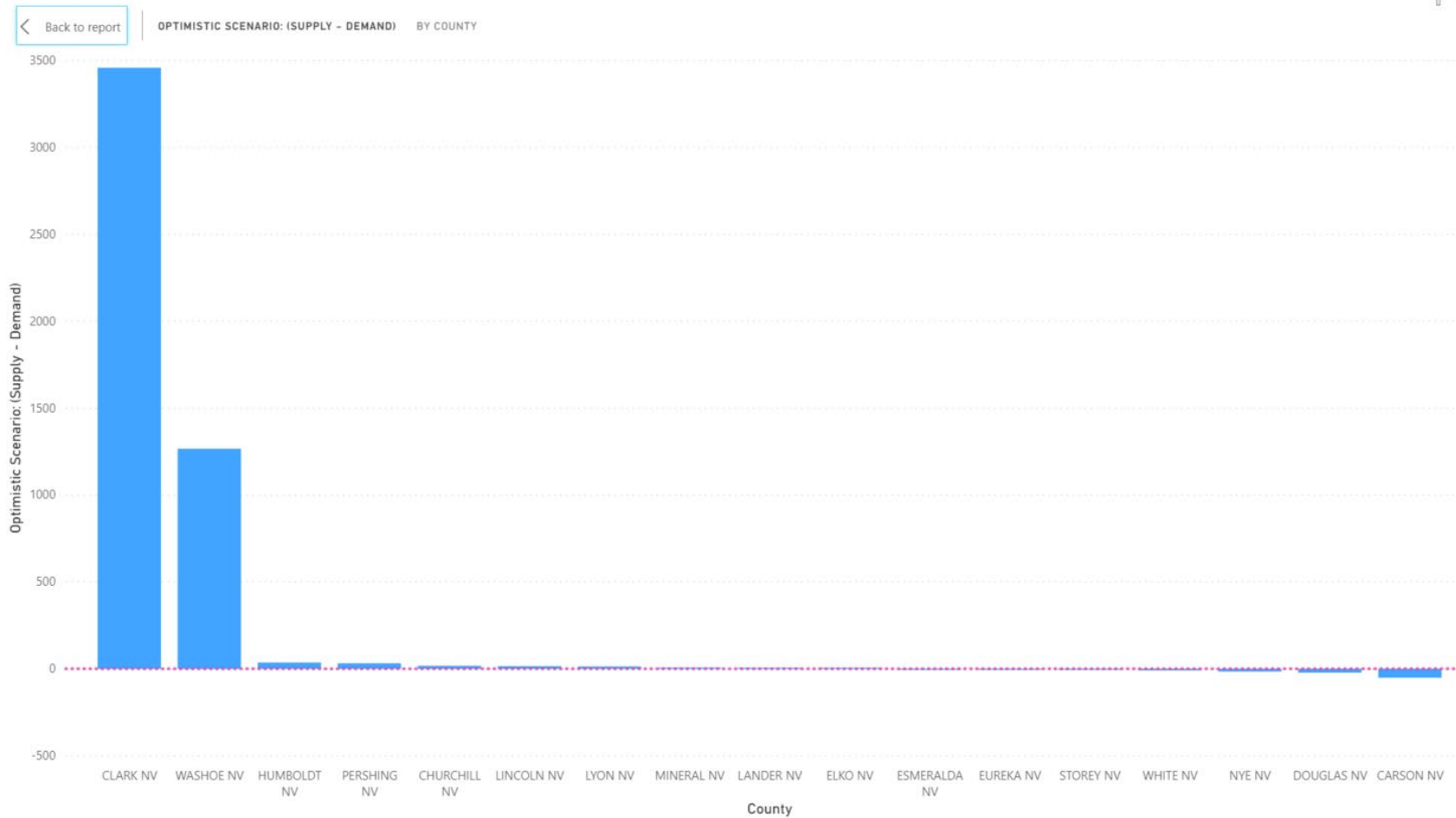


Fig 3: In the scenario where all precautions are taken to flatten the curve, data suggests almost all Counties will be able to meet the needed demand. The peak will hit in June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Several Counties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

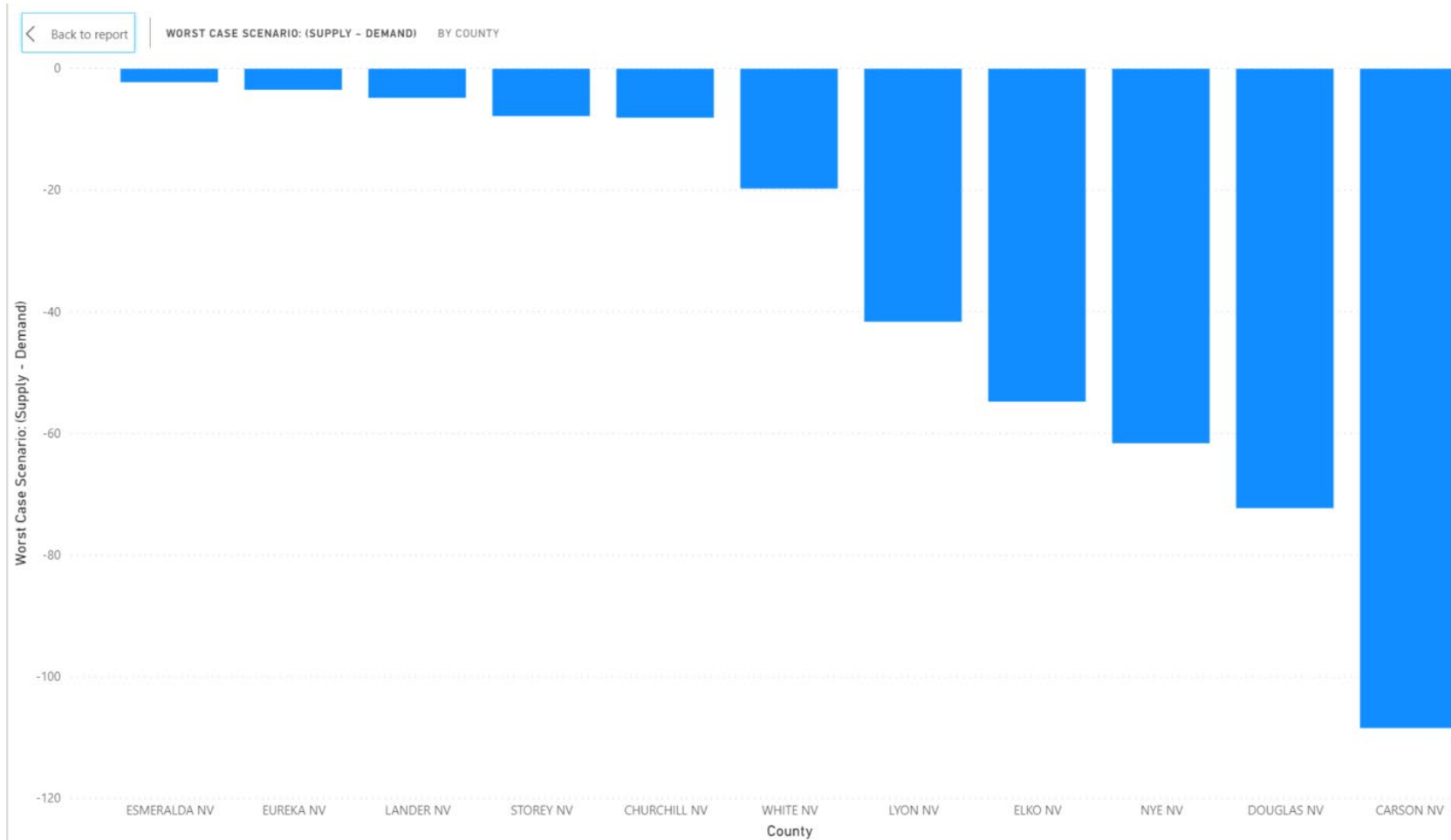


Fig 4: The figure above represents Counties that will run out of beds at peak for the Worst-Case scenario

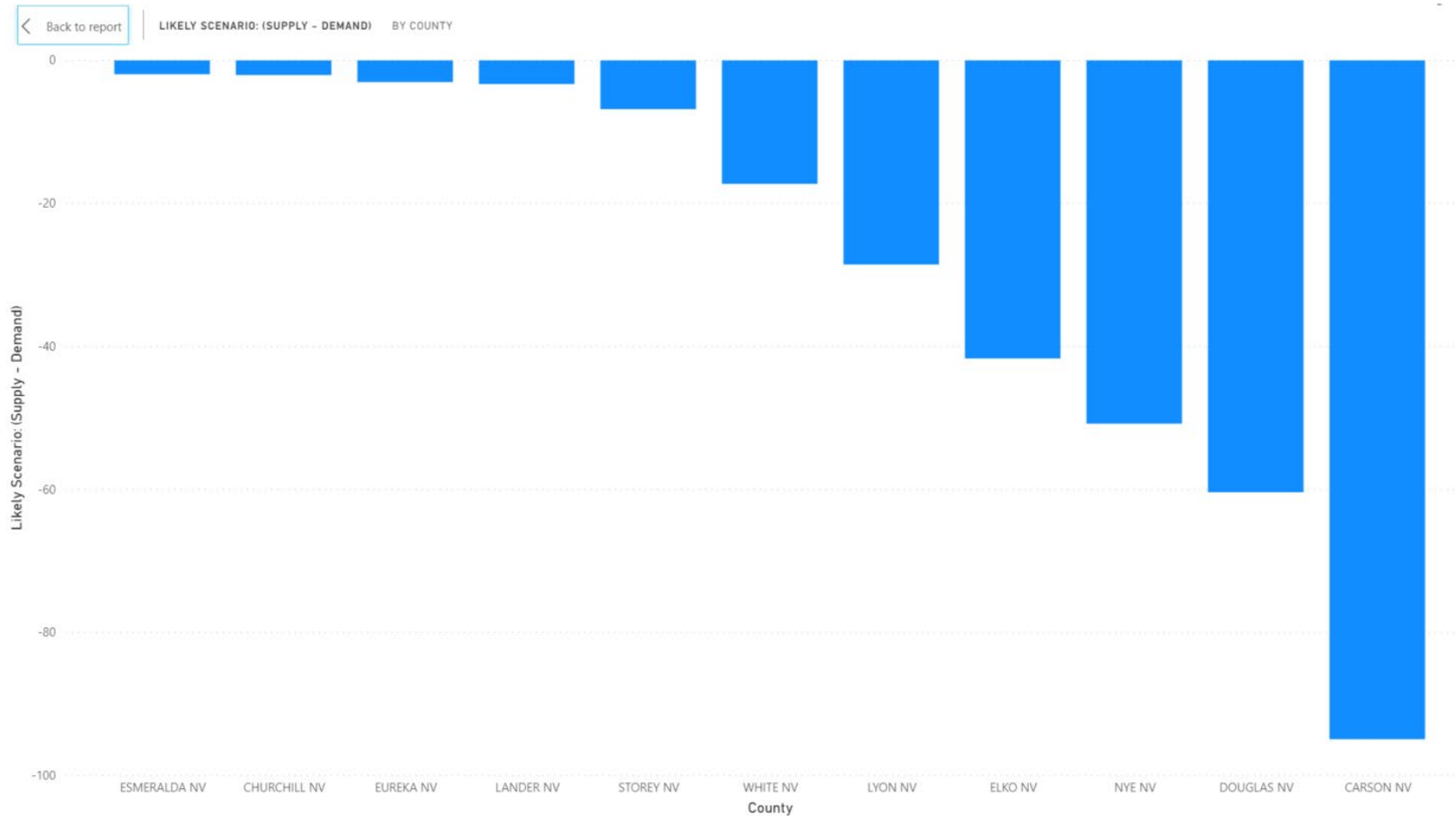


Fig 5: The figure above represents Counties that will run out of beds at peak for the Likely scenario

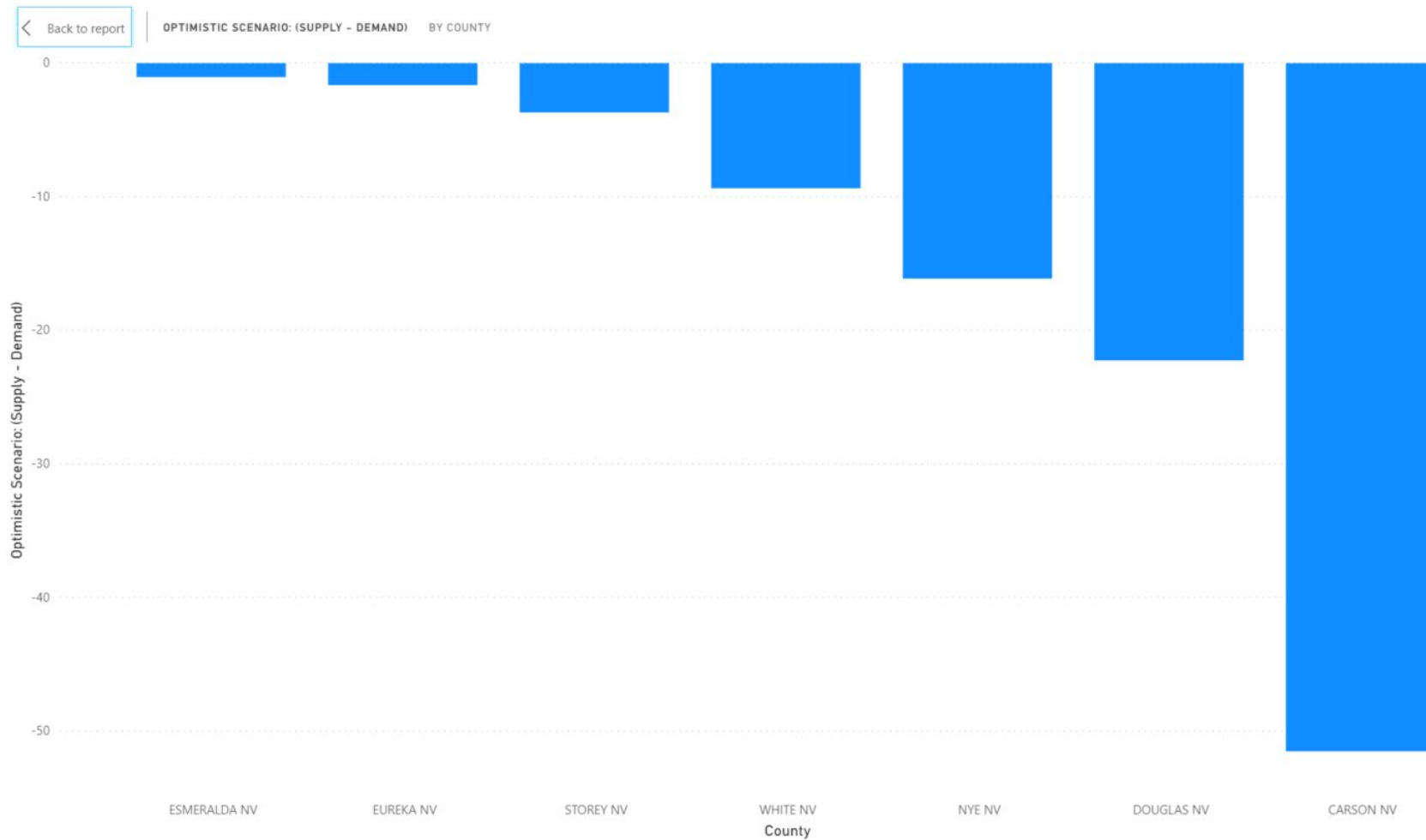


Fig 6: The figure above represents Counties that will run out of beds or do not have a hospital at peak for the Optimistic scenario

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					
CHURCHILL NV	NV	24022	5317	40	2	2	22	23	12	2	2	12	42	12	2	2	24	66	48	4	2			x		x
CLARK NV	NV	2112436	379124	5467	211	211	1901	2007	1056	211	211	1056	3697	1056	211	211	2112	5809	4225	317	211					x
DOUGLAS NV	NV	47632	15346	23	5	5	43	45	24	5	5	24	83	24	5	5	48	131	95	7	5	x		x		x
ELKO NV	NV	52377	7511	50	5	5	47	50	26	5	5	26	92	26	5	5	52	144	105	8	5			x		x
ESMERALDA NV	NV	1102	350	0	0	0	1	1	1	0	0	1	2	1	0	0	1	3	2	0	0	x		x		x
EUREKA NV	NV	1728	406	0	0	0	2	2	1	0	0	1	3	1	0	0	2	5	3	0	0	x		x		x
HUMBOLDT NV	NV	17088	2995	52	2	2	15	16	9	2	2	9	30	9	2	2	17	47	34	3	2					
LANDER NV	NV	5887	981	7	1	1	5	6	3	1	1	3	10	3	1	1	6	16	12	1	1			x		x
LINCOLN NV	NV	5203	1351	20	1	1	5	5	3	1	1	3	9	3	1	1	5	14	10	1	1					
LYON NV	NV	52303	13688	63	5	5	47	50	26	5	5	26	92	26	5	5	52	144	105	8	5			x		x
MINERAL NV	NV	4471	1247	11	0	0	4	4	2	0	0	2	8	2	0	0	4	12	9	1	0					x
NYE NV	NV	43296	14859	25	4	4	39	41	22	4	4	22	76	22	4	4	43	119	87	6	4	x		x		x
PERSHING NV	NV	6661	1397	38	1	1	6	6	3	1	1	3	12	3	1	1	7	18	13	1	1					
STOREY NV	NV	3891	1482	0	0	0	4	4	2	0	0	2	7	2	0	0	4	11	8	1	0	x		x		x
WASHOE NV	NV	445551	88891	1690	45	45	401	423	223	45	45	223	780	223	45	45	446	1225	891	67	45					
WHITE NV	NV	9858	2121	0	1	1	9	9	5	1	1	5	17	5	1	1	10	27	20	1	1	x		x		x
CARSON NV	NV	54219	12966	0	5	5	49	52	27	5	5	27	95	27	5	5	54	149	108	8	5	x		x		x

Table 1: Table with Data showing all three scenarios