

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

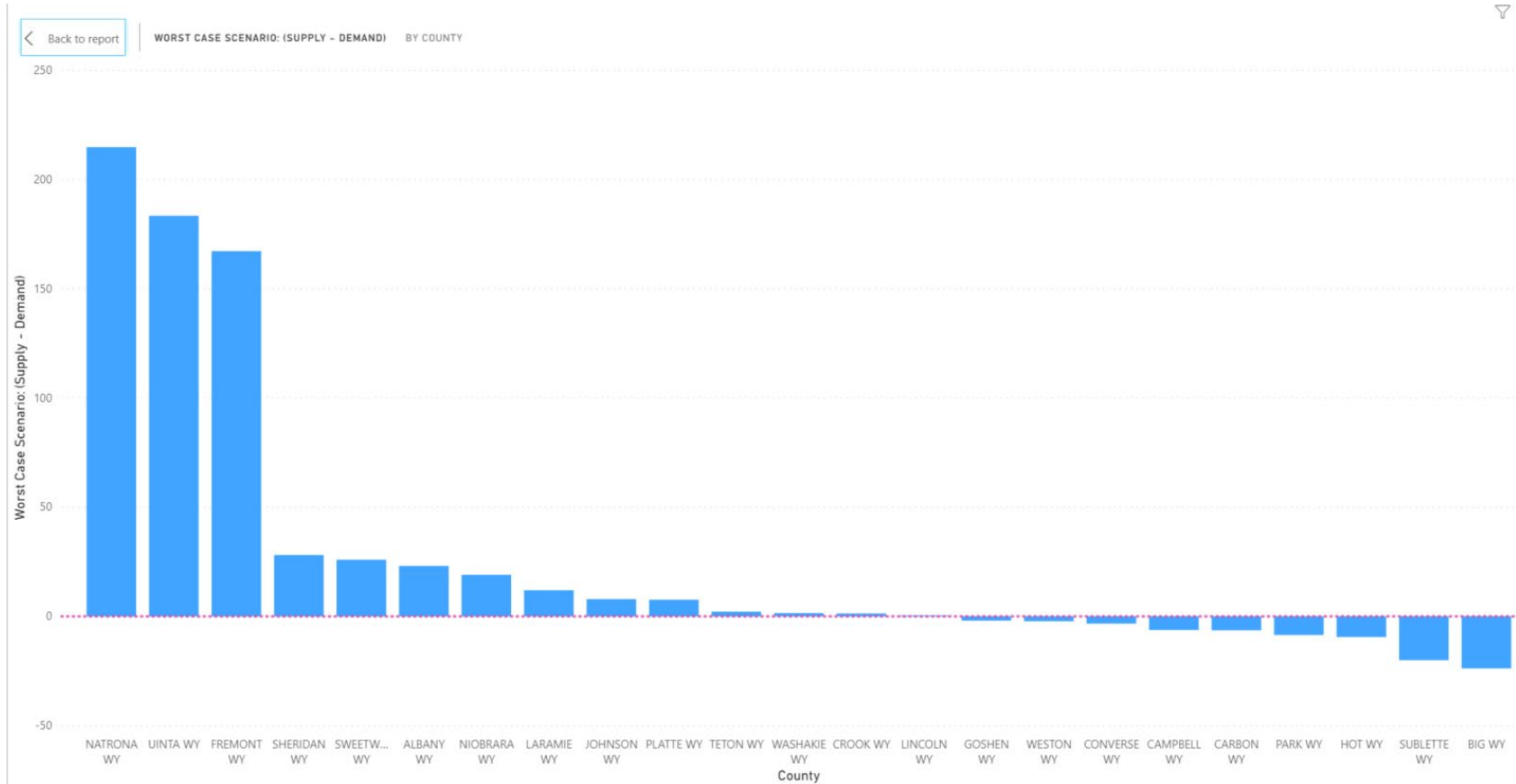


Fig 1: The above figure shows Supply minus Demand at peak using the Imperial-College-COVID19-NPI-modelling-16-03-2020 and the exponential regression model in the article published. All appearing above the red dashed line have capacity even at peak. All Counties that at or falling below the red line are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

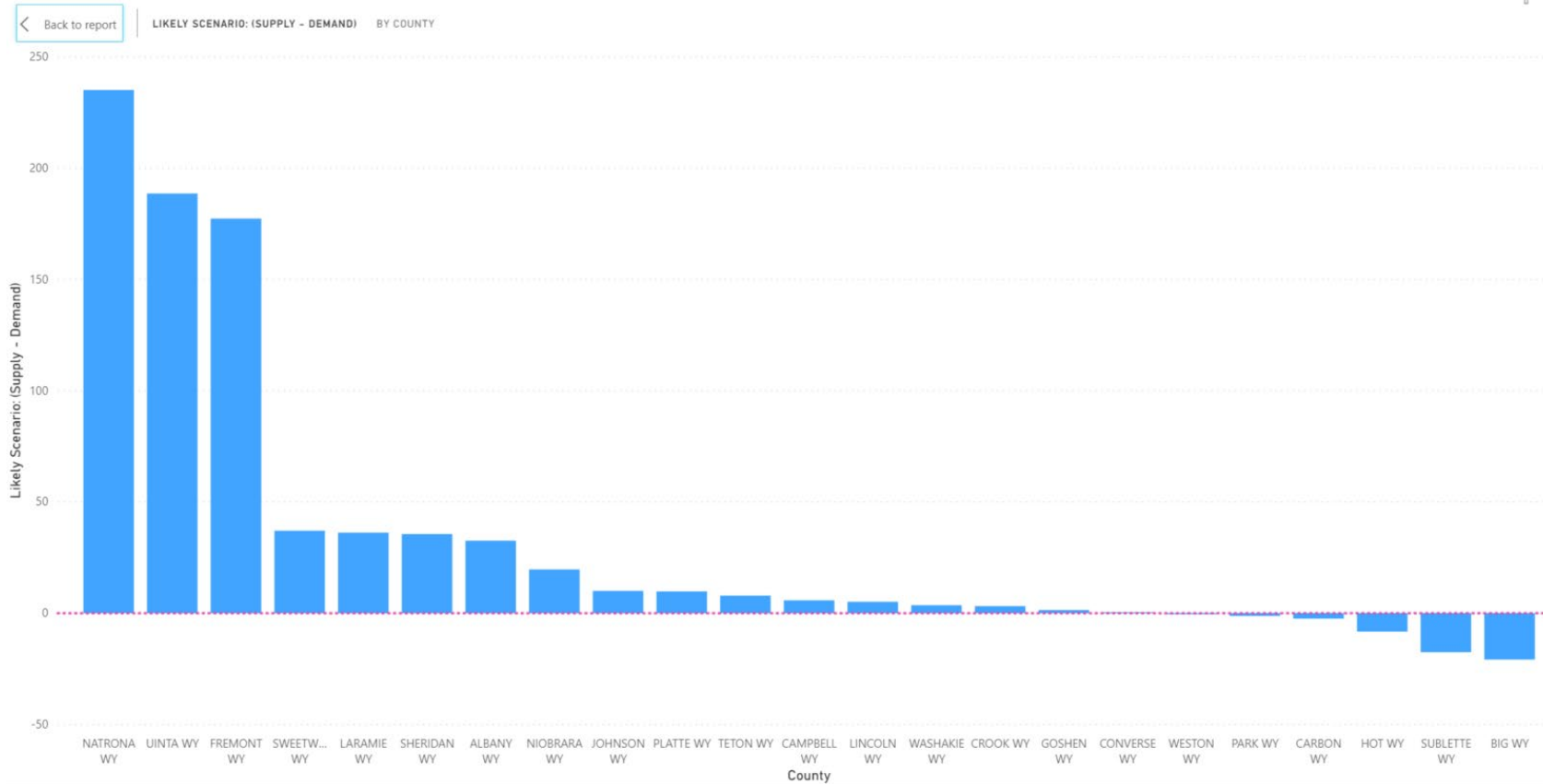


Fig 2: In the more likely scenario where some precautions are taken to flatten the curve, data suggests some Counties will still be unable to meet the needed demand. The peak will hit in early June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made.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

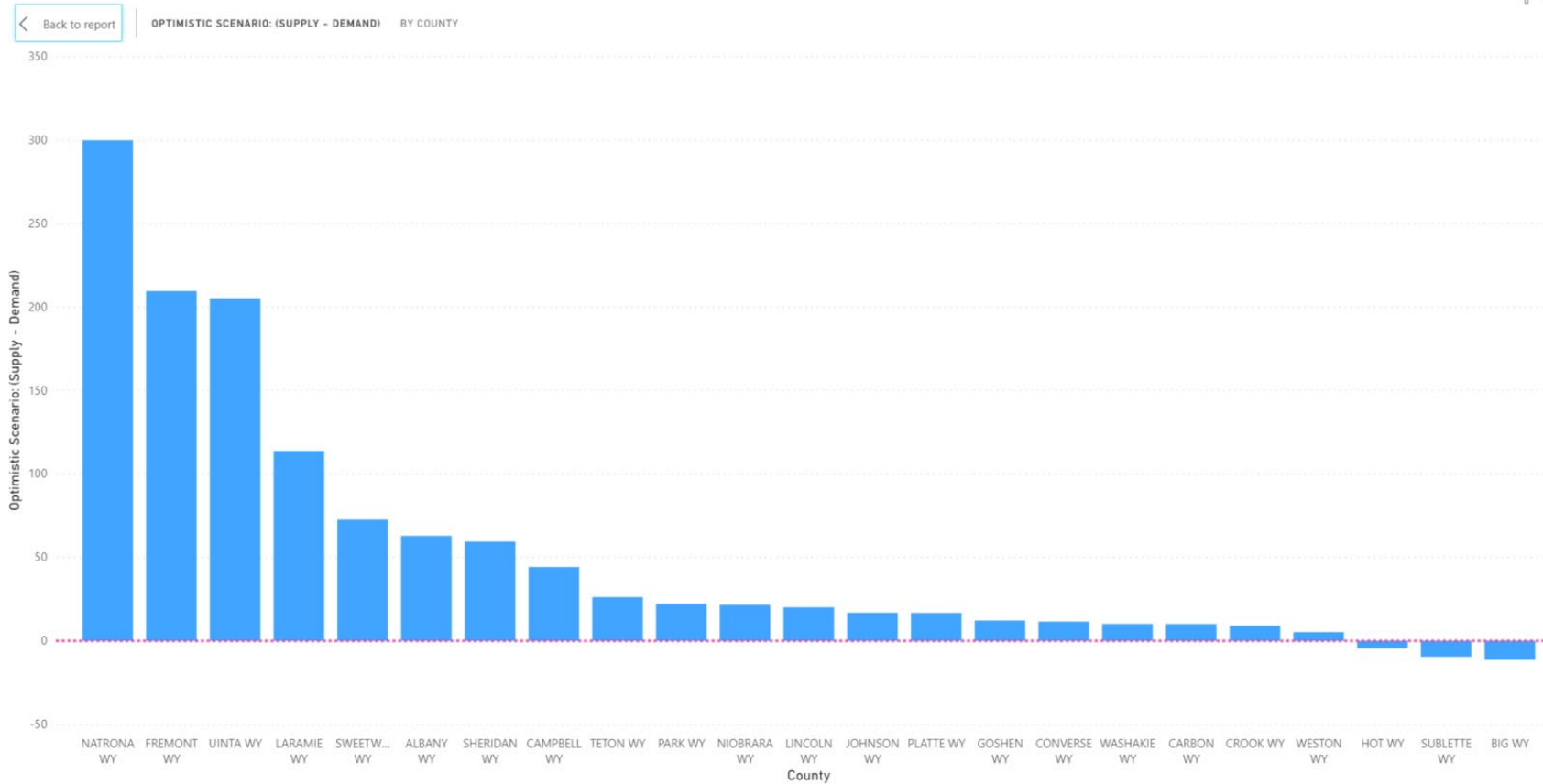


Fig 3: In the scenario where all precautions are taken to flatten the curve, data suggests almost all Counties will be able to meet the needed demand. The peak will hit in June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Several Counties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

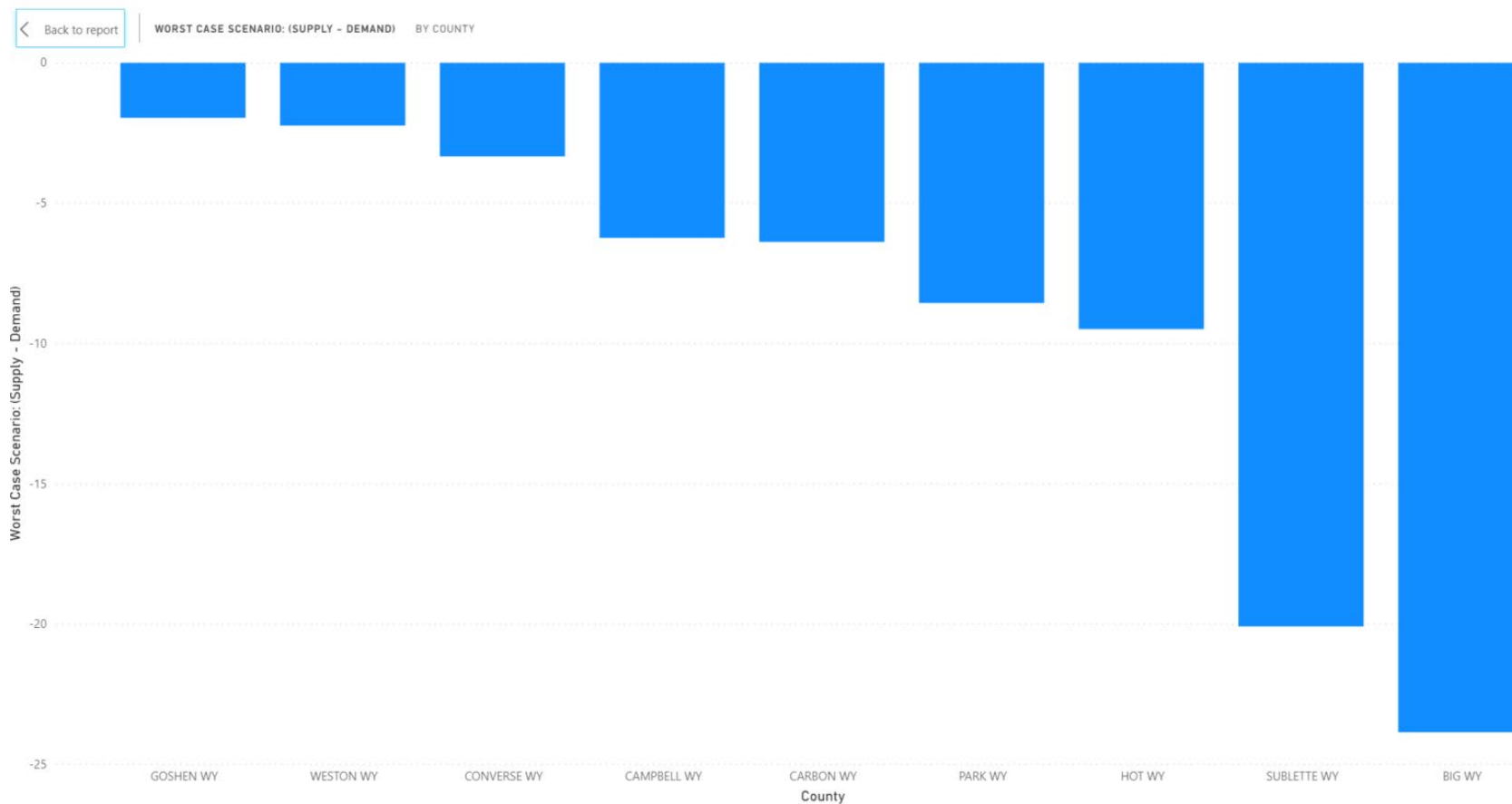


Fig 4: The figure above represents Counties that will run out of beds at peak for the Worst-Case scenario

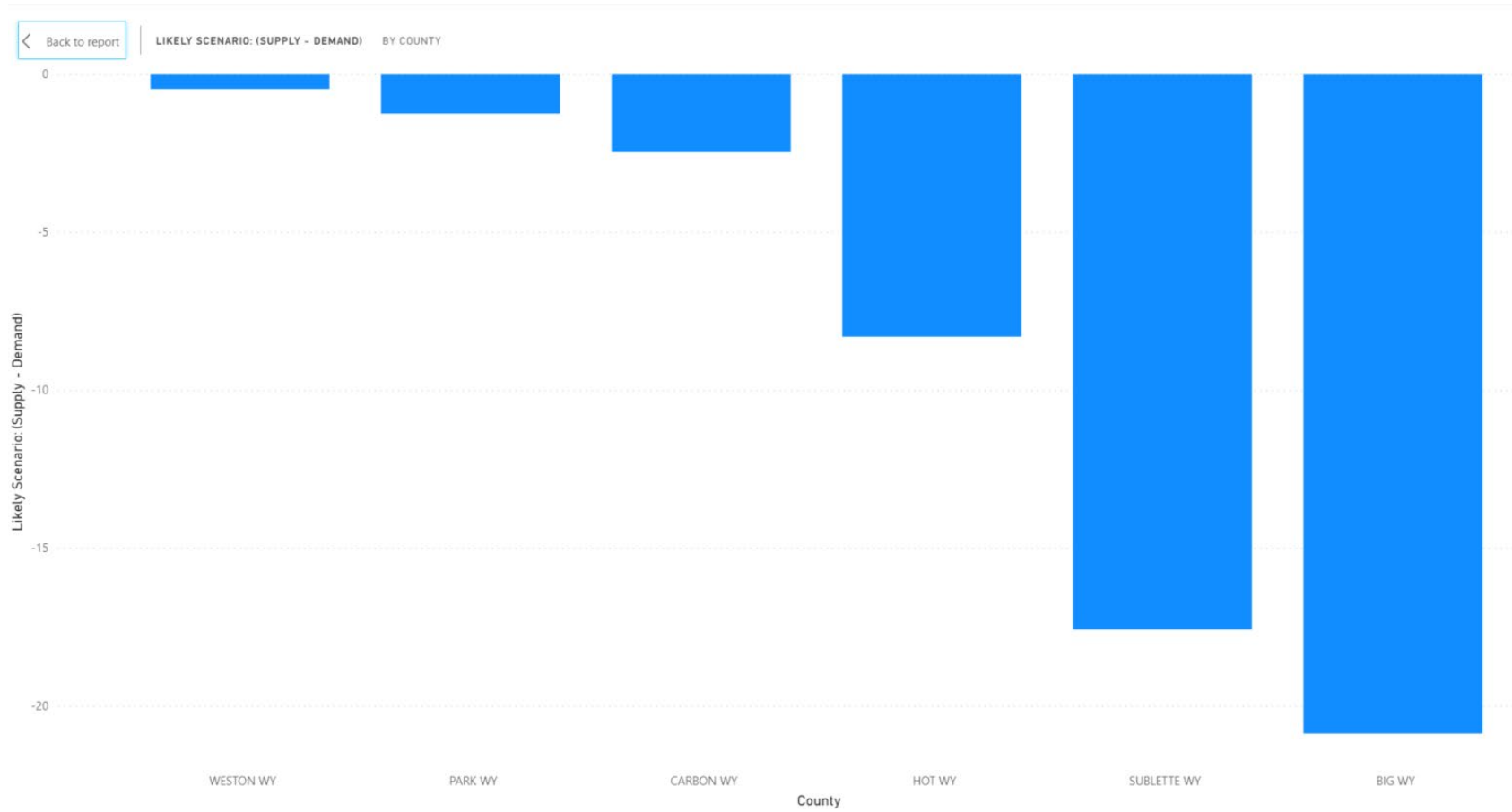


Fig 5: The figure above represents Counties that will run out of beds at peak for the Likely scenario

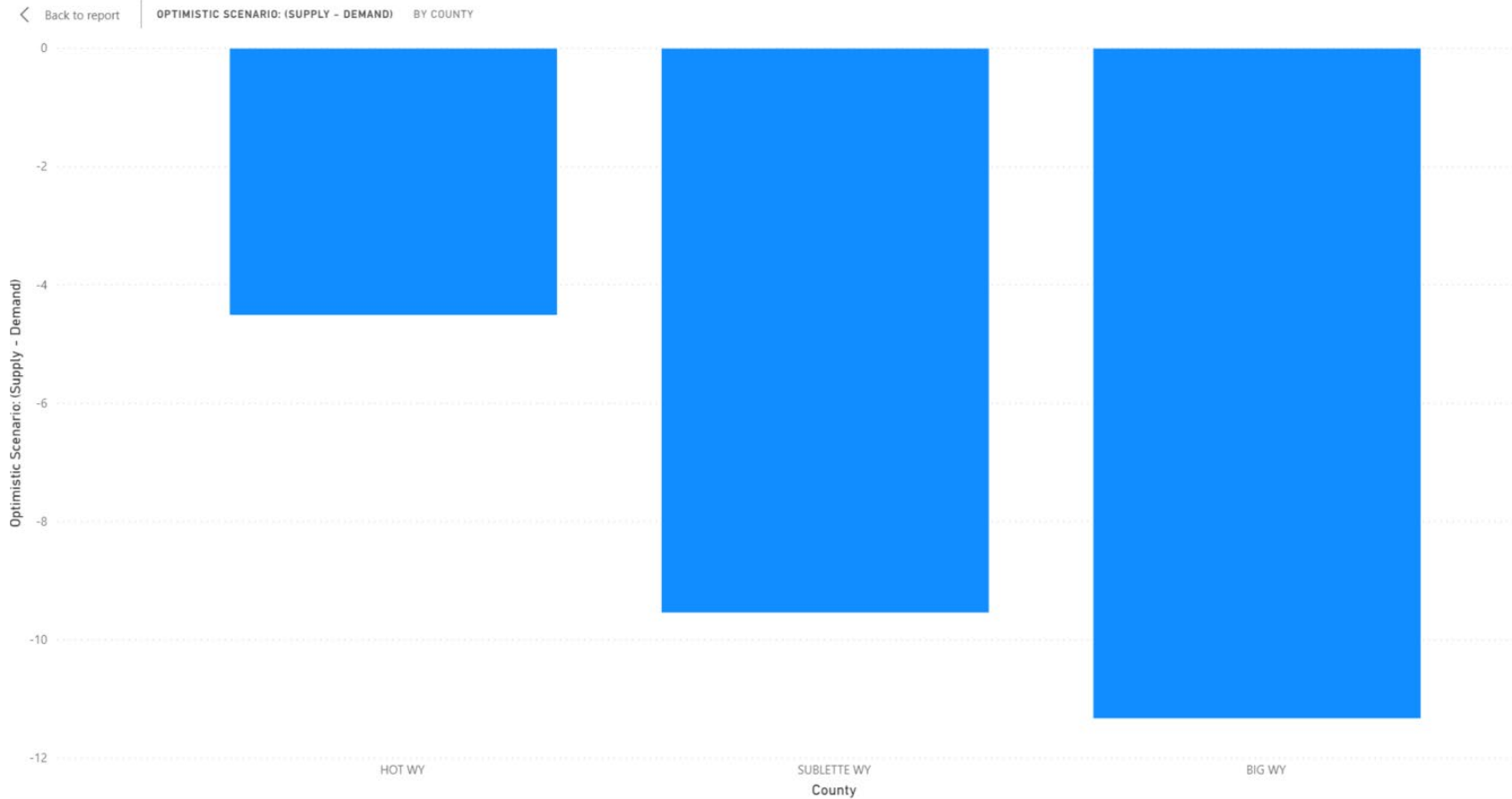


Fig 6: The figure above represents Counties that will run out of beds or do not have a hospital at peak for the Optimistic scenario

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

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 WY	WY	37944	5411	99	4	4	34	36	19	4	4	19	66	19	4	4	38	104	76	6	4			x							
BIG WY	WY	11920	2988	0	1	1	11	11	6	1	1	6	21	6	1	1	12	33	24	2	1	x		x							
CAMPBELL WY	WY	48116	6269	90	5	5	43	46	24	5	5	24	84	24	5	5	48	132	96	7	5			x							
CARBON WY	WY	15689	3202	25	2	2	14	15	8	2	2	8	27	8	2	2	16	43	31	2	2		x	x							
CONVERSE WY	WY	14166	2752	25	1	1	13	13	7	1	1	7	25	7	1	1	14	39	28	2	1			x							
CROOK WY	WY	7347	1860	16	1	1	7	7	4	1	1	4	13	4	1	1	7	20	15	1	1			x							
FREMONT WY	WY	40354	9144	248	4	4	36	38	20	4	4	20	71	20	4	4	40	111	81	6	4			x							
GOSHEN WY	WY	13479	3325	25	1	1	12	13	7	1	1	7	24	7	1	1	13	37	27	2	1			x							
HOT WY	WY	4741	1554	0	0	0	4	5	2	0	0	2	8	2	0	0	5	13	9	1	0	x		x							
JOHNSON WY	WY	8562	2218	25	1	1	8	8	4	1	1	4	15	4	1	1	9	24	17	1	1			x							
LARAMIE WY	WY	97031	18253	206	10	10	87	92	49	10	10	49	170	49	10	10	97	267	194	15	10			x							
LINCOLN WY	WY	18791	4002	38	2	2	17	18	9	2	2	9	33	9	2	2	19	52	38	3	2			x							
NATRONA WY	WY	81023	14437	377	8	8	73	77	41	8	8	41	142	41	8	8	81	223	162	12	8			x							
NIOBRARA WY	WY	2479	570	24	0	0	2	2	1	0	0	1	4	1	0	0	2	7	5	0	0			x							
PARK WY	WY	29276	7825	50	3	3	26	28	15	3	3	15	51	15	3	3	29	81	59	4	3		x	x							
PLATTE WY	WY	8703	2556	25	1	1	8	8	4	1	1	4	15	4	1	1	9	24	17	1	1			x							
SHERIDAN WY	WY	29964	7560	88	3	3	27	28	15	3	3	15	52	15	3	3	30	82	60	4	3			x							
SUBLETTE WY	WY	10037	2145	0	1	1	9	10	5	1	1	5	18	5	1	1	10	28	20	2	1	x		x							
SWEETWATER WY	WY	44527	6594	115	4	4	40	42	22	4	4	22	78	22	4	4	45	122	89	7	4			x							
TETON WY	WY	22923	3982	48	2	2	21	22	11	2	2	11	40	11	2	2	23	63	46	3	2			x							
UINTA WY	WY	20758	3225	225	2	2	19	20	10	2	2	10	36	10	2	2	21	57	42	3	2			x							
WASHAKIE WY	WY	8253	2042	18	1	1	7	8	4	1	1	4	14	4	1	1	8	23	17	1	1			x							

Table 1: Table with Data showing all three scenarios