

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

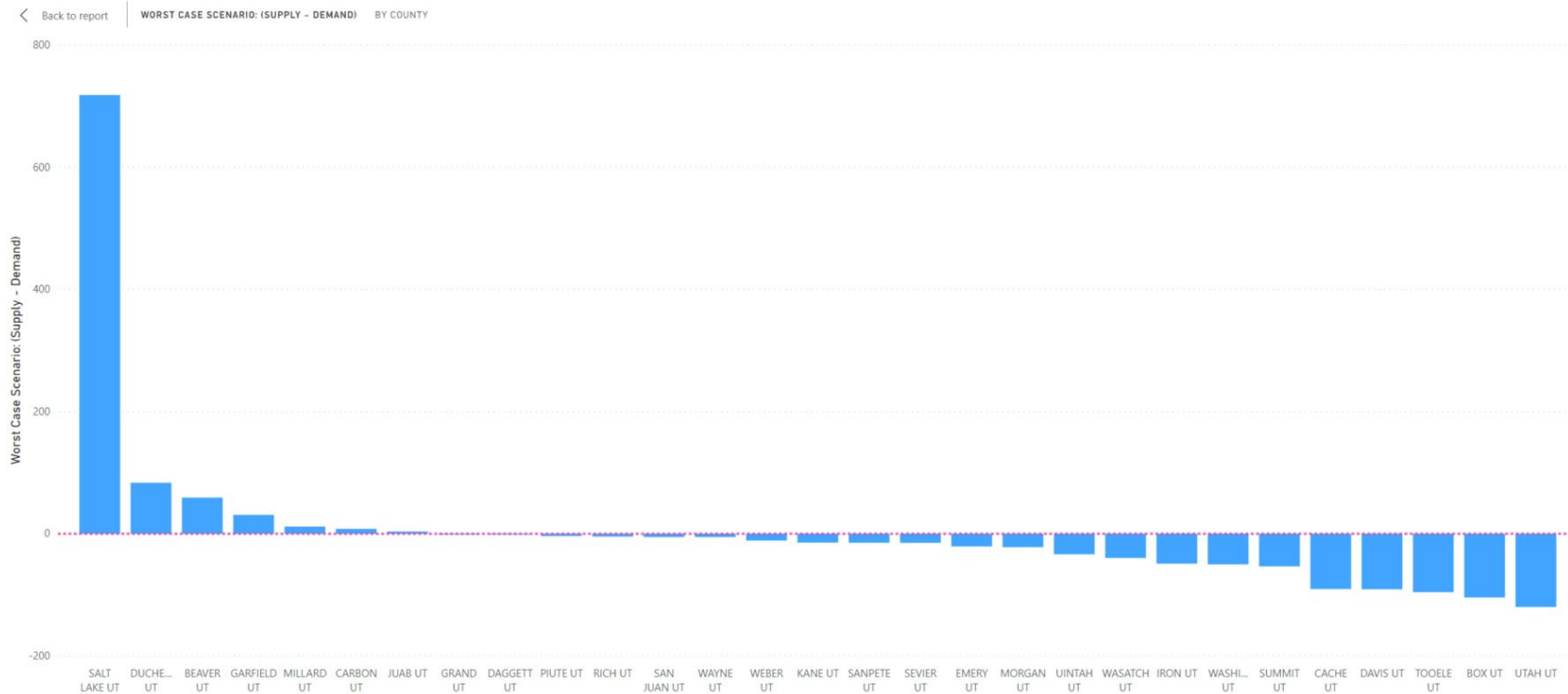


Fig 1: The above figure shows Supply minus Demand at peak using the Imperial-College-COVID19-NPI-modelling-16-03-2020 and the exponential regression model in the article published. All appearing above the red dashed line have capacity even at peak. All Counties that at or falling below the red line are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

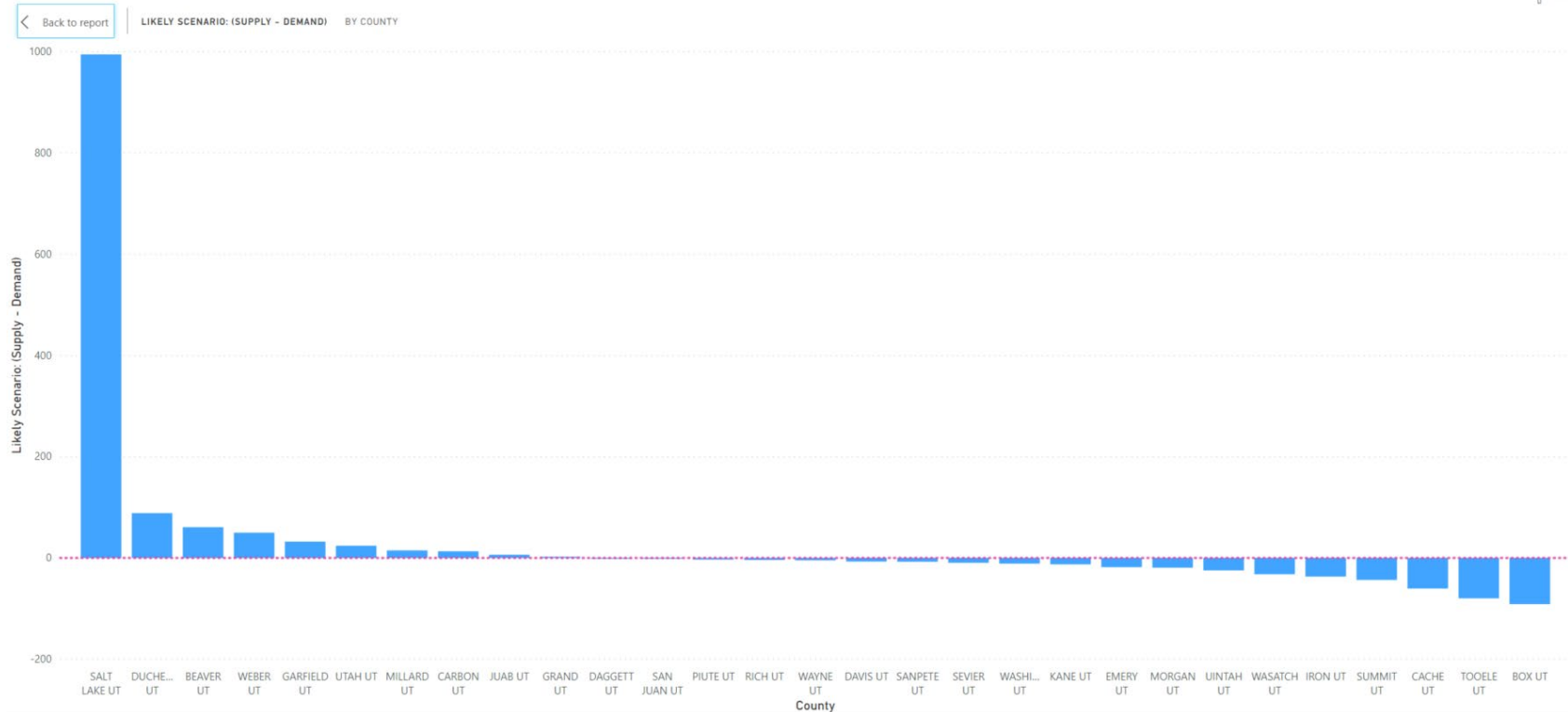


Fig 2: In the more likely scenario where some precautions are taken to flatten the curve, data suggests some Counties will still be unable to meet the needed demand. The peak will hit in early June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made.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

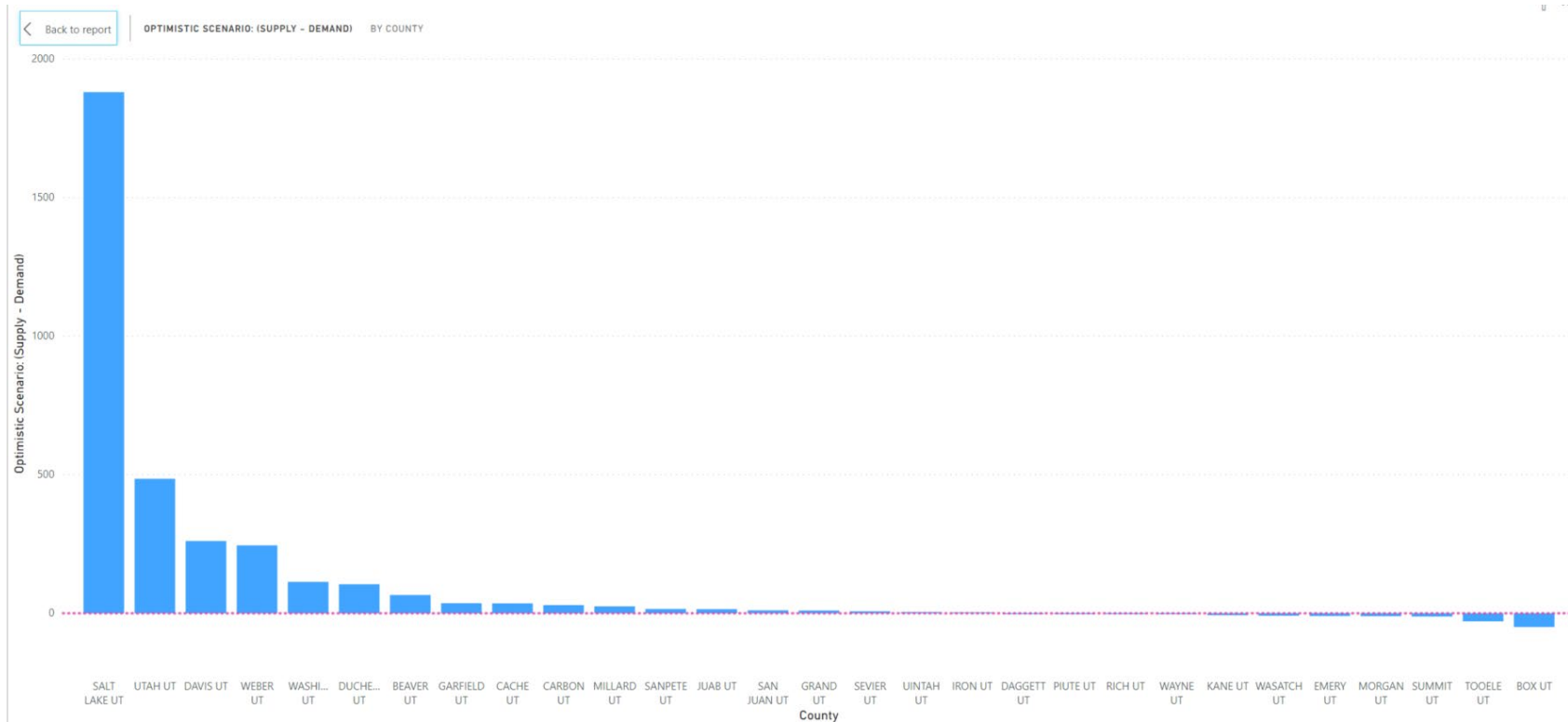


Fig 3: In the scenario where all precautions are taken to flatten the curve, data suggests almost all Counties will be able to meet the needed demand. The peak will hit in June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Several Counties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

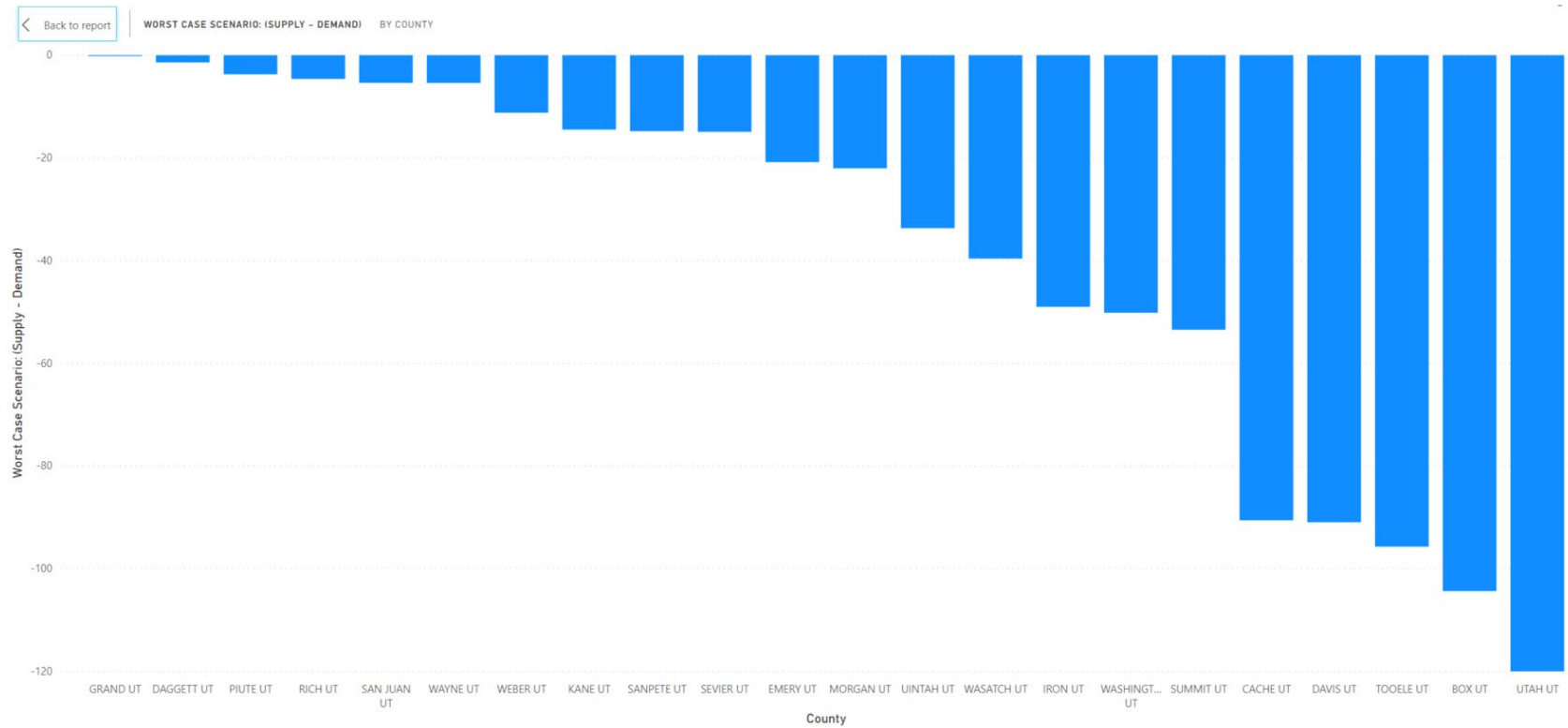


Fig 4: The figure above represents Counties that will run out of beds at peak for the Worst-Case scenario

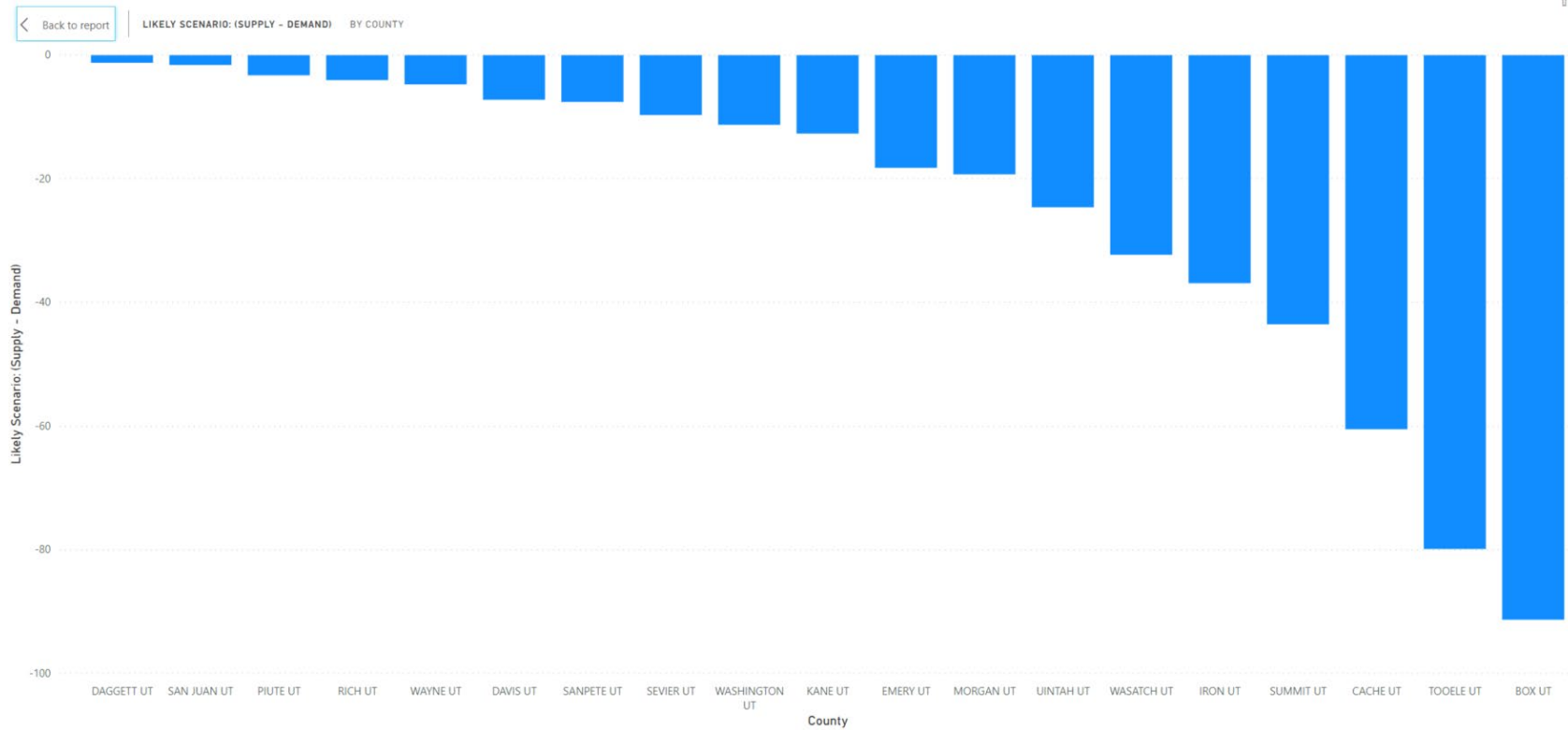


Fig 5: The figure above represents Counties that will run out of beds at peak for the Likely scenario

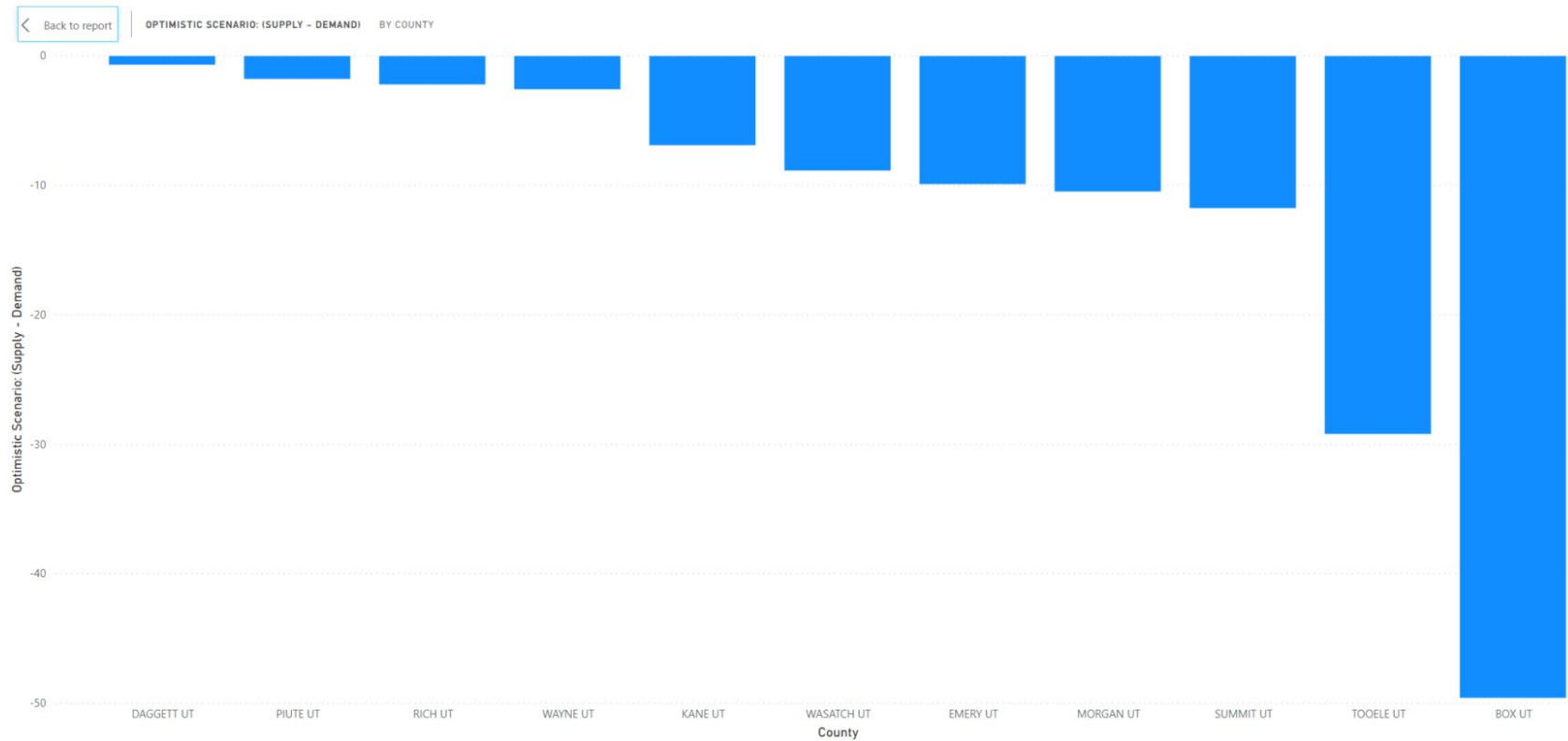


Fig 6: The figure above represents Counties that will run out of beds or do not have a hospital at peak for the Optimistic scenario

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
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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										
BEAVER UT	UT	6414	1118	72	1	1	6	6	3	1	1	3	11	3	1	1	6	18	13	1	1										
BOX UT	UT	52182	8508	0	5	5	47	50	26	5	5	26	91	26	5	5	52	144	104	8	5	x	x	x							
CACHE UT	UT	120288	13783	150	12	12	108	114	60	12	12	60	211	60	12	12	120	331	241	18	12		x	x							
CARBON UT	UT	20512	4154	49	2	2	18	19	10	2	2	10	36	10	2	2	21	56	41	3	2			x							
DAGGETT UT	UT	702	143	0	0	0	1	1	0	0	0	0	1	0	0	0	1	2	1	0	0	x	x	x							
DAVIS UT	UT	334977	42336	579	33	33	301	318	167	33	33	167	586	167	33	33	335	921	670	50	33		x	x							
DUCHESSNE UT	UT	20259	2896	124	2	2	18	19	10	2	2	10	35	10	2	2	20	56	41	3	2										
EMERY UT	UT	10410	2114	0	1	1	9	10	5	1	1	5	18	5	1	1	10	29	21	2	1	x	x	x							
GARFIELD UT	UT	5020	1165	41	1	1	5	5	3	1	1	3	9	3	1	1	5	14	10	1	1										
GRAND UT	UT	9544	2024	19	1	1	9	9	5	1	1	5	17	5	1	1	10	26	19	1	1			x							
IRON UT	UT	48504	7461	48	5	5	44	46	24	5	5	24	85	24	5	5	49	133	97	7	5		x	x							
JUAB UT	UT	10694	1565	25	1	1	10	10	5	1	1	5	19	5	1	1	11	29	21	2	1			x							
KANE UT	UT	7246	1994	0	1	1	7	7	4	1	1	4	13	4	1	1	7	20	14	1	1	x	x	x							
MILLARD UT	UT	12651	2492	37	1	1	11	12	6	1	1	6	22	6	1	1	13	35	25	2	1										
MORGAN UT	UT	11014	1778	0	1	1	10	10	6	1	1	6	19	6	1	1	11	30	22	2	1	x	x	x							
PIUTE UT	UT	1860	596	0	0	0	2	2	1	0	0	1	3	1	0	0	2	5	4	0	0		x	x							
RICH UT	UT	2307	438	0	0	0	2	2	1	0	0	1	4	1	0	0	2	6	5	0	0	x	x	x							
SALT LAKE UT	UT	1106700	151672	2932	111	111	996	1051	553	111	111	553	1937	553	111	111	1107	3043	2213	166	111			x							
SAN JUAN UT	UT	15193	2552	25	2	2	14	14	8	2	2	8	27	8	2	2	15	42	30	2	2		x	x							
SANPETE UT	UT	28892	4694	43	3	3	26	27	14	3	3	14	51	14	3	3	29	79	58	4	3		x	x							
SEVIER UT	UT	20961	4168	27	2	2	19	20	10	2	2	10	37	10	2	2	21	58	42	3	2		x	x							
SUMMIT UT	UT	39731	6492	26	4	4	36	38	20	4	4	20	70	20	4	4	40	109	79	6	4	x	x	x							
TOOELE UT	UT	63357	7847	31	6	6	57	60	32	6	6	32	111	32	6	6	63	174	127	10	6	x	x	x							
UINTAH UT	UT	36343	4551	39	4	4	33	35	18	4	4	18	64	18	4	4	36	100	73	5	4		x	x							
UTAH UT	UT	576496	55238	1033	58	58	519	548	288	58	58	288	1009	288	58	58	576	1585	1153	86	58			x							
WASATCH UT	UT	29306	3963	19	3	3	26	28	15	3	3	15	51	15	3	3	29	81	59	4	3	x	x	x							
WASHINGTON UT	UT	155577	36013	261	16	16	140	148	78	16	16	78	272	78	16	16	156	428	311	23	16		x	x							
WAYNE UT	UT	2700	661	0	0	0	2	3	1	0	0	1	5	1	0	0	3	7	5	0	0	x	x	x							
WEBER UT	UT	244101	35455	477	24	24	220	232	122	24	24	122	427	122	24	24	244	671	488	37	24			x							

Table 1: Table with Data showing all three scenarios