

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

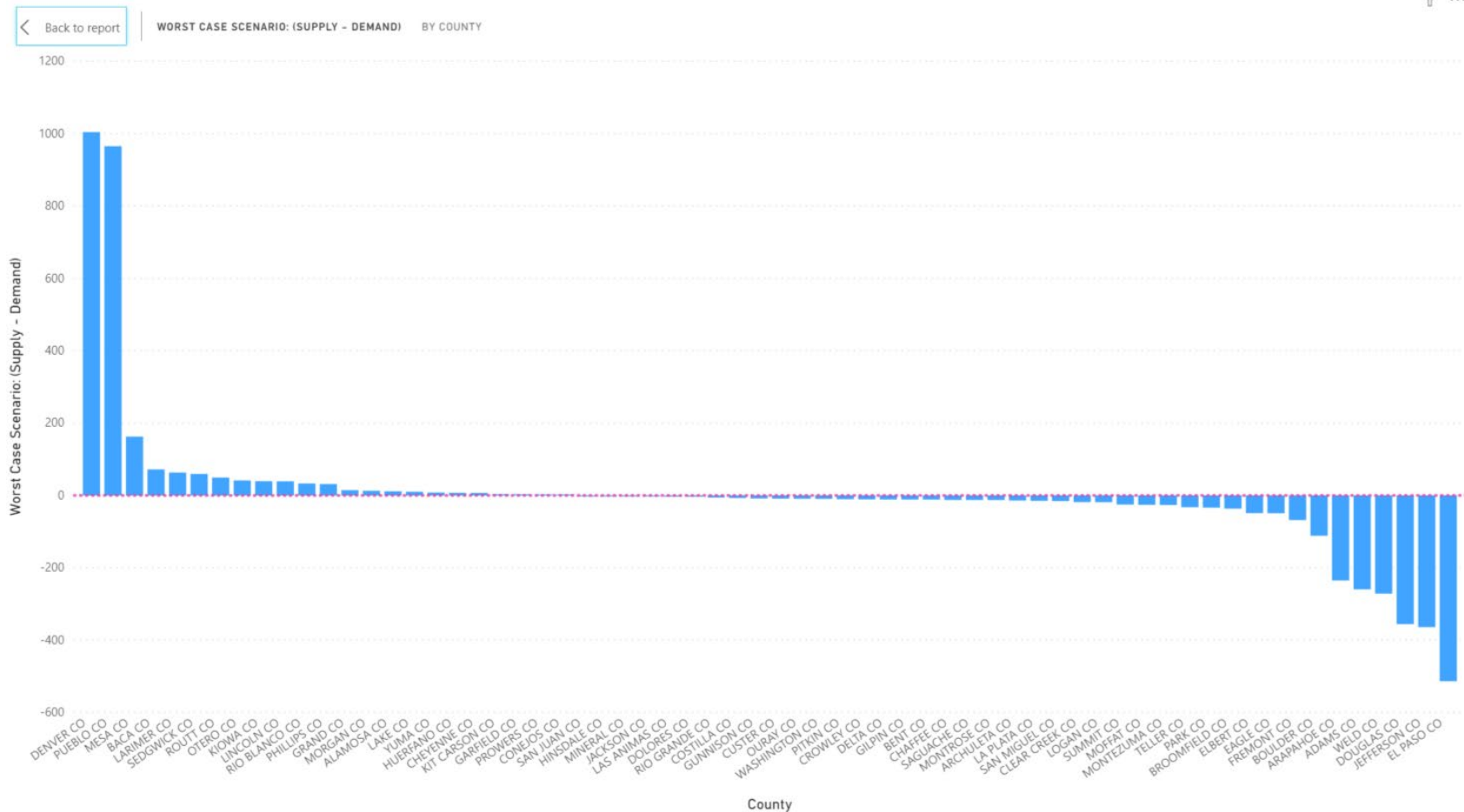


Fig 1: The above figure shows Supply minus Demand at peak using the Imperial-College-COVID19-NPI-modelling-16-03-2020 and the exponential regression model in the article published. All appearing above the red dashed line have capacity even at peak. All Counties that at or falling below the red line are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

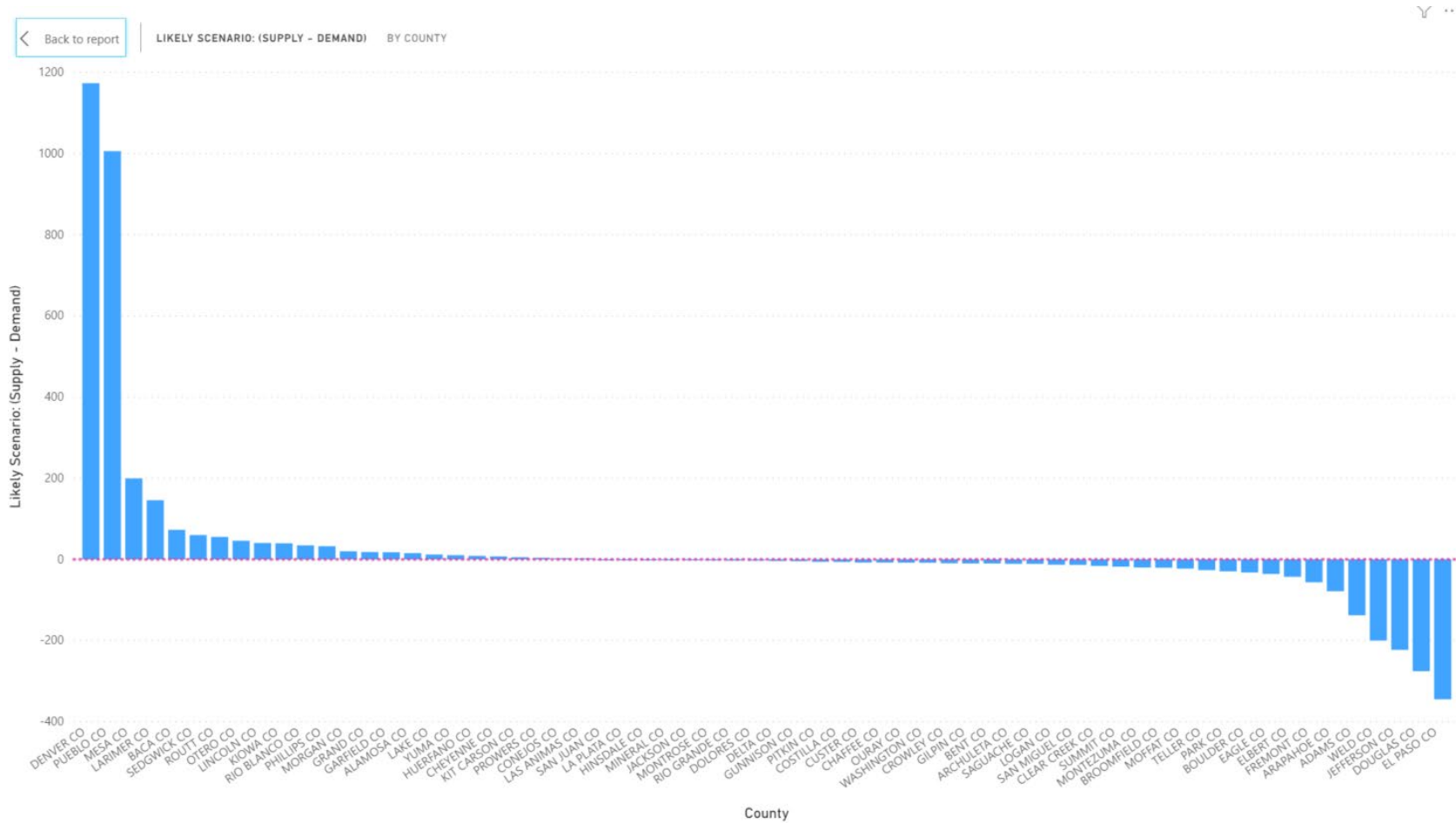


Fig 2: In the more likely scenario where some precautions are taken to flatten the curve, data suggests some Counties will still be unable to meet the needed demand. The peak will hit in early June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made.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

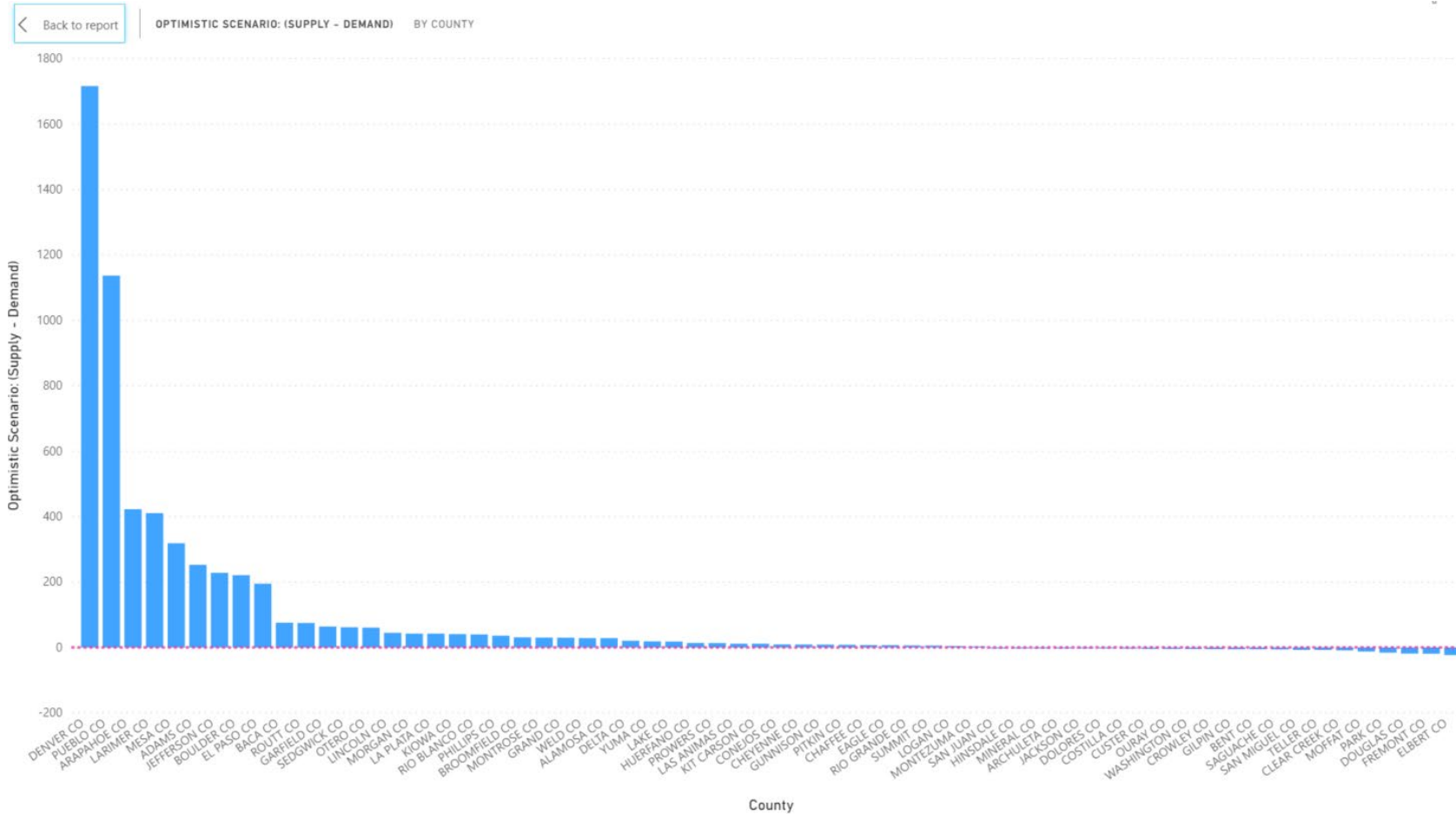


Fig 3: In the scenario where all precautions are taken to flatten the curve, data suggests almost all Counties will be able to meet the needed demand. The peak will hit in June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Several Counties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

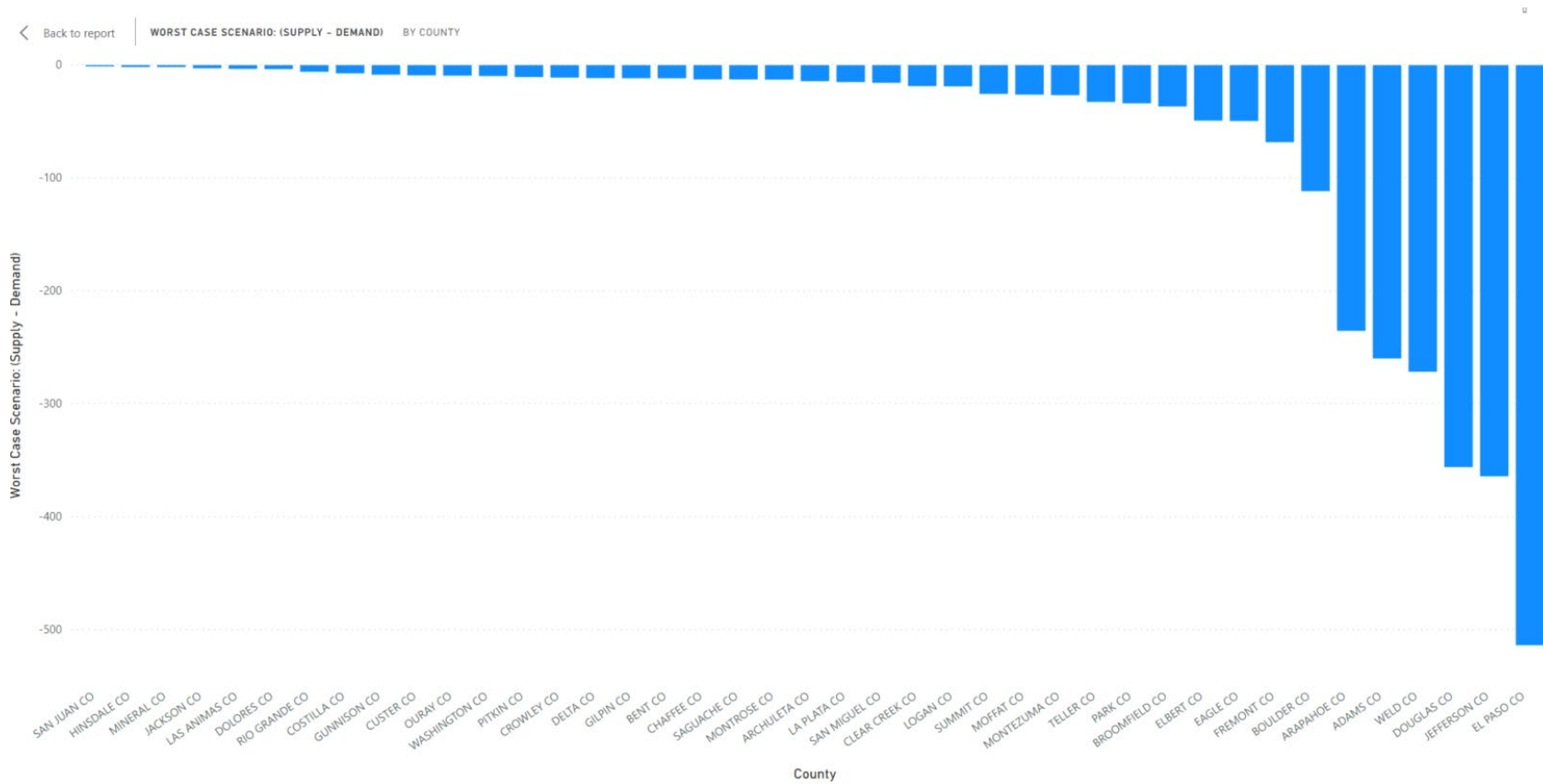


Fig 4: The figure above represents Counties that will run out of beds at peak for the Worst-Case scenario

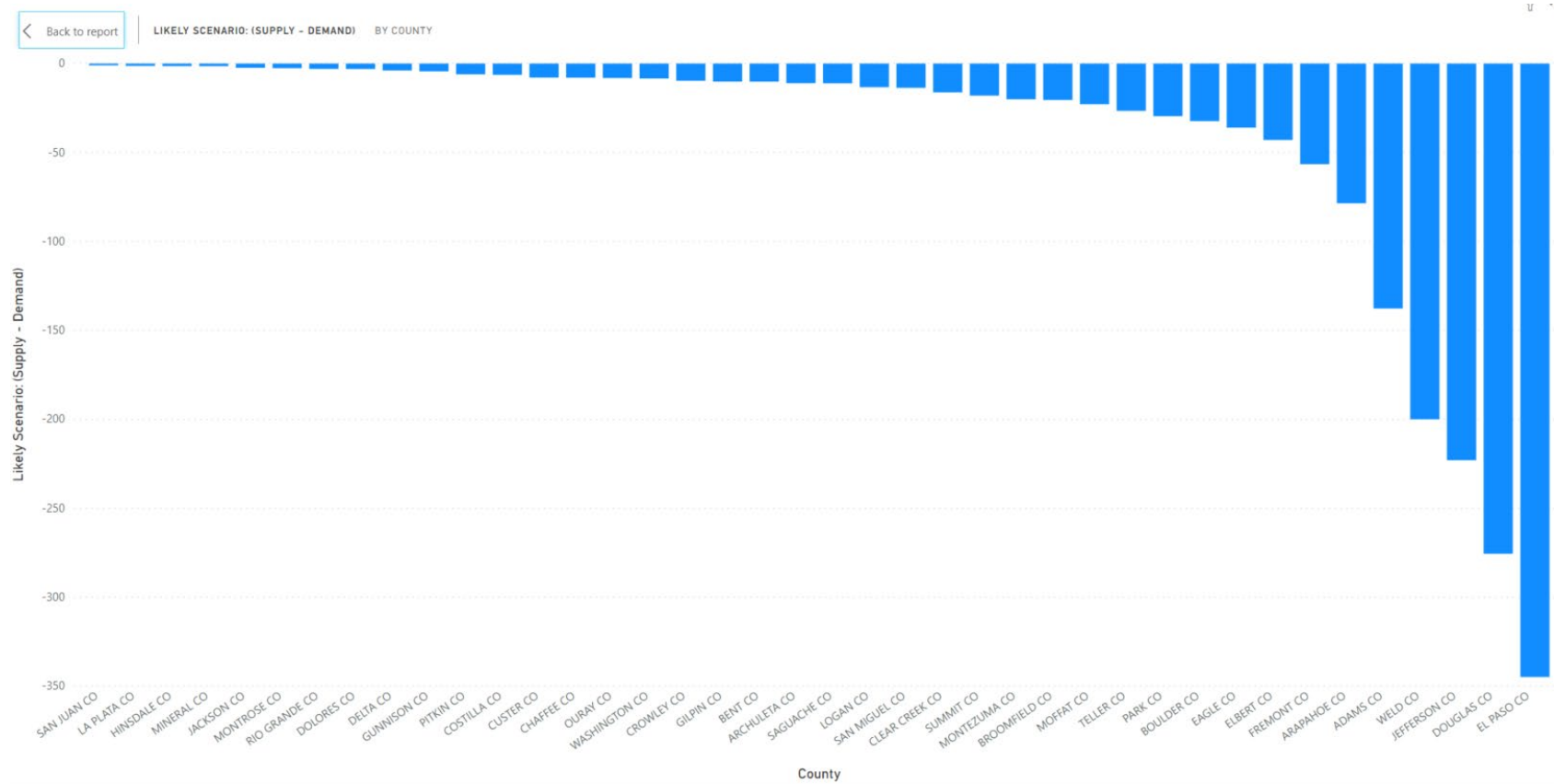


Fig 5: The figure above represents Counties that will run out of beds at peak for the Likely scenario

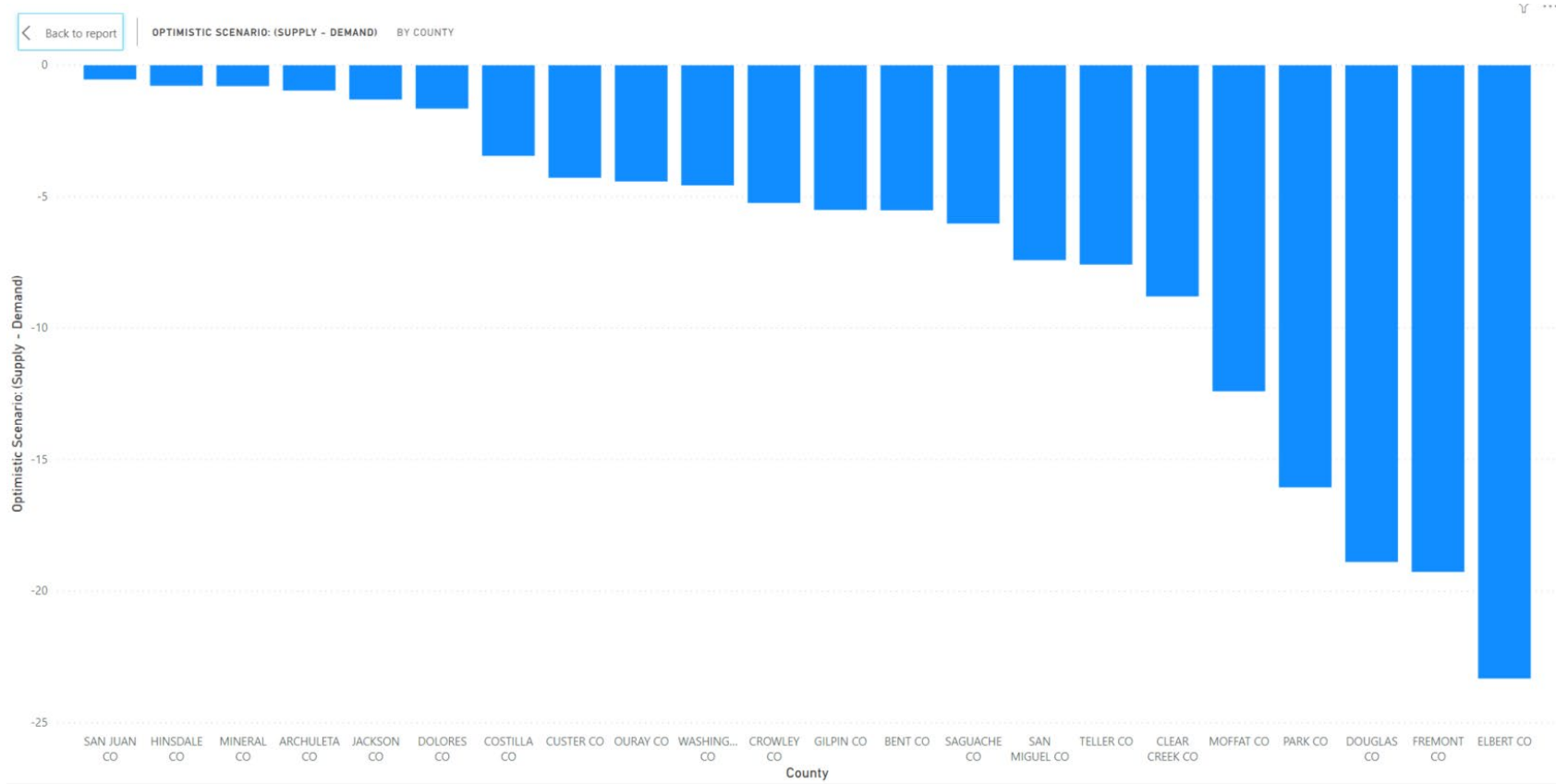


Fig 6: The figure above represents Counties that will run out of beds at peak for the Optimistic scenario

County	State	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)
		Total Population	65+ Population	Beds	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													
ADAMS CO	CO	487850	64974	716	49	49	439	463	244	49	49	244	854	244	49	49	488	1342	976	73	49			x		x								
ALAMOSA CO	CO	16345	2807	44	2	2	15	16	8	2	2	8	29	8	2	2	16	45	33	2	2					x								
ARAPAHOE CO	CO	626612	103278	1018	63	63	564	595	313	63	63	313	1097	313	63	63	627	1723	1253	94	63			x		x								
ARCHULETA CO	CO	12592	4063	11	1	1	11	12	6	1	1	6	22	6	1	1	13	35	25	2	1	x		x		x								
BACA CO	CO	3581	1040	79	0	0	3	3	2	0	0	2	6	2	0	0	4	10	7	1	0													
BENT CO	CO	5806	1136	0	1	1	5	6	3	1	1	3	10	3	1	1	6	16	12	1	1	x		x		x								
BOULDER CO	CO	316782	54575	522	32	32	285	301	158	32	32	158	554	158	32	32	317	871	634	48	32			x		x								
BROOMFIELD CO	CO	64283	10324	92	6	6	58	61	32	6	6	32	112	32	6	6	64	177	129	10	6			x		x								
CHAFFEE CO	CO	18818	5752	25	2	2	17	18	9	2	2	9	33	9	2	2	19	52	38	3	2			x		x								
CHEYENNE CO	CO	2127	308	11	0	0	2	2	1	0	0	1	4	1	0	0	2	6	4	0	0													
CLEAR CREEK CO	CO	9257	2419	0	1	1	8	9	5	1	1	5	16	5	1	1	9	25	19	1	1	x		x		x								
CONEJOS CO	CO	8147	1912	17	1	1	7	8	4	1	1	4	14	4	1	1	8	22	16	1	1					x								
COSTILLA CO	CO	3628	1179	0	0	0	3	3	2	0	0	2	6	2	0	0	4	10	7	1	0	x		x		x								
CROWLEY CO	CO	5514	1021	0	1	1	5	5	3	1	1	3	10	3	1	1	6	15	11	1	1	x		x		x								
CUSTER CO	CO	4505	2016	0	0	0	4	4	2	0	0	2	8	2	0	0	5	12	9	1	0	x		x		x								
DELTA CO	CO	30217	8856	49	3	3	27	29	15	3	3	15	53	15	3	3	30	83	60	5	3			x		x								
DENVER CO	CO	678467	98868	2361	68	68	611	645	339	68	68	339	1187	339	68	68	678	1866	1357	102	68													
DOLORES CO	CO	1736	463	0	0	0	2	2	1	0	0	1	3	1	0	0	2	5	3	0	0	x		x		x								
DOUGLAS CO	CO	320940	47136	286	32	32	289	305	160	32	32	160	562	160	32	32	321	883	642	48	32	x		x		x								
EAGLE CO	CO	53726	7755	58	5	5	48	51	27	5	5	27	94	27	5	5	54	148	107	8	5			x		x								
ELBERT CO	CO	24553	5213	0	2	2	22	23	12	2	2	12	43	12	2	2	25	68	49	4	2	x		x		x								
EL PASO CO	CO	674826	108090	836	67	67	607	641	337	67	67	337	1181	337	67	67	675	1856	1350	101	67			x		x								
FREMONT CO	CO	46601	11559	25	5	5	42	44	23	5	5	23	82	23	5	5	47	128	93	7	5	x		x		x								
GARFIELD CO	CO	57945	9486	119	6	6	52	55	29	6	6	29	101	29	6	6	58	159	116	9	6			x		x								
GILPIN CO	CO	5793	1477	0	1	1	5	6	3	1	1	3	10	3	1	1	6	16	12	1	1	x		x		x								
GRAND CO	CO	14793	3661	44	1	1	13	14	7	1	1	7	26	7	1	1	15	41	30	2	1			x		x								
GUNNISON CO	CO	16215	2728	24	2	2	15	15	8	2	2	8	28	8	2	2	16	45	32	2	2			x		x								
HINSDALE CO	CO	820	303	0	0	0	1	1	0	0	0	0	1	0	0	0	1	2	2	0	0	x		x		x								
HUERFANO CO	CO	6498	2362	20	1	1	6	6	3	1	1	3	11	3	1	1	6	18	13	1	1			x		x								
JACKSON CO	CO	1372	368	0	0	0	1	1	1	0	0	1	2	1	0	0	1	4	3	0	0	x		x		x								
JEFFERSON CO	CO	564029	114335	764	56	56	508	536	282	56	56	282	987	282	56	56	564	1551	1128	85	56			x		x								
KIOWA CO	CO	1368	312	42	0	0	1	1	1	0	0	1	2	1	0	0	1	4	3	0	0													
KIT CARSON CO	CO	7846	1663	19	1	1	7	7	4	1	1	4	14	4	1	1	8	22	16	1	1					x								
LAKE CO	CO	7481	1325	25	1	1	7	7	4	1	1	4	13	4	1	1	7	21	15	1	1													
LA PLATA CO	CO	54469	11679	94	5	5	49	52	27	5	5	27	95	27	5	5	54	150	109	8	5			x		x								
LARIMER CO	CO	330976	61782	725	33	33	298	314	165	33	33	165	579	165	33	33	331	910	662	50	33			x		x								
LAS ANIMAS CO	CO	14151	3992	25	1	1	13	13	7	1	1	7	25	7	1	1	14	39	28	2	1					x								
LINCOLN CO	CO	5520	1036	50	1	1	5	5	3	1	1	3	10	3	1	1	6	15	11	1	1													
LOGAN CO	CO	21885	4308	25	2	2	20	21	11	2	2	11	38	11	2	2	22	60	44	3	2			x		x								
MESA CO	CO	148798	32472	460	15	15	134	141	74	15	15	74	260	74	15	15	149	409	298	22	15													
MINERAL CO	CO	834	365	0	0	0	1	1	0	0	0	0	1	0	0	0	1	2	2	0	0	x		x		x								
MOFFAT CO	CO	13056	2651	0	1	1	12	12	7	1	1	7	23	7	1	1	13	36	26	2	1	x		x		x								
MONTEZUMA CO	CO	25770	6679	25	3	3	23	24	13	3	3	13	45	13	3	3	26	71	52	4	3			x		x								
MONTROSE CO	CO	40908	11028	69	4	4	37	39	20	4	4	20	72	20	4	4	41	112	82	6	4			x		x								
MORGAN CO	CO	28123	5515	69	3	3	25	27	14	3	3	14	49	14	3	3	28	77	56	4	3			x		x								
OTERO CO	CO	18325	4423	78	2	2	16	17	9	2	2	9	32	9	2	2	18	50	37	3	2													
OURAY CO	CO	4653	1727	0	0	0	4	4	2	0	0	2	8	2	0	0	5	13	9	1	0	x		x		x								
PARK CO	CO	16900	4573	0	2	2	15	16	8	2	2	8	30	8	2	2	17	46	34	3	2	x		x		x								
PHILLIPS CO	CO	4327	911	40	0	0	4	4	2	0	0	2	8	2	0	0	4	12	9	1	0													
PITKIN CO	CO	17747	4206	25	2	2	16	17	9	2	2	9	31	9	2	2	18	49	35	3	2			x		x								
PROWERS CO	CO	12084	2545	25	1	1	11	11	6	1	1	6	21	6	1	1	12	33	24	2	1			x		x								
PUEBLO CO	CO	163368	35527	1292	16	16	147	155	82	16	16	82	286	82	16	16	163	449	327	25	16													
RIO BLANCO CO	CO	6557	1272	46	1	1	6	6	3	1	1	3	11	3	1	1	7	18	13	1	1													
RIO GRANDE CO	CO	11430	2616	17	1	1	10	11	6	1	1	6	20	6	1	1	11	31	23	2	1			x		x								
ROUTT CO	CO	24359	4658	98	2	2	22	23	12	2	2	12	43	12	2	2	24	67	49	4	2													
SAGUACHE CO	CO	6338	1846	0	1	1	6	6	3	1	1	3	11	3	1	1	6	17	13	1	1	x		x		x								
SAN JUAN CO	CO	569	164	0	0	0	1	1	0	0	0	0	1	0	0	0	1	2	1	0	0	x		x		x								
SAN MIGUEL CO	CO	7804	1435	0	1	1	7	7	4	1	1	4	14	4	1	1	8	21	16	1	1	x		x		x								
SEDGWICK CO	CO	2357	650	64	0	0	2	2	1	0	0	1	4	1	0	0	2	6	5	0	0													
SUMMIT CO	CO	29722	5606	34	3	3	27	28	15	3	3	15	52	15	3	3	30	82	59	4	3			x		x								
TELLER CO	CO	23769	6530	15	2	2	21	23	12	2	2	12	42	12	2	2	24	65	48	4	2	x		x		x								
WASHINGTON CO	CO	4809	1164	0	0	0	4	5	2	0	0	2	8	2	0	0	5	13	10	1	0	x		x		x								
WELD CO	CO	285729	44868	300	29	29	257	271	143	29	29	143	500	143	29	29	286	786	571	43	29			x		x								
YUMA CO	CO	10109	2078	28	1	1	9	10	5	1	1	5	18	5	1	1	10	28	20	2	1													

Table 1: Table with Data showing all three scenarios