Altheia
PREDICTIVE HEALTH

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

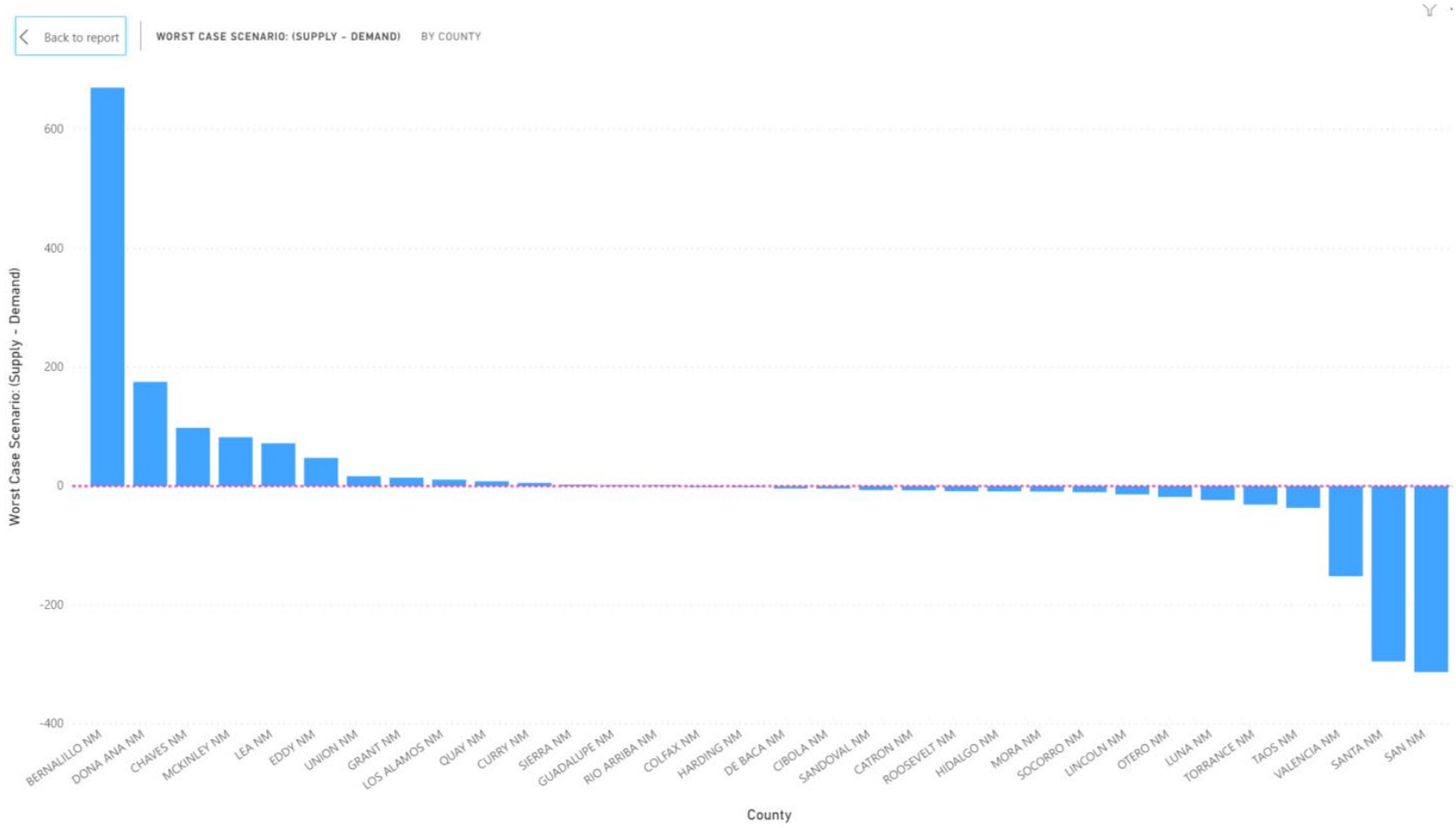

Fig 1: The above figure shows Supply minus Demand at peak using the Imperial-College-COVID19-NPI-modelling-16-03-2020 and the exponential regression model in the article published. All appearing above the red dashed line have capacity even at peak. All Counties that

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.

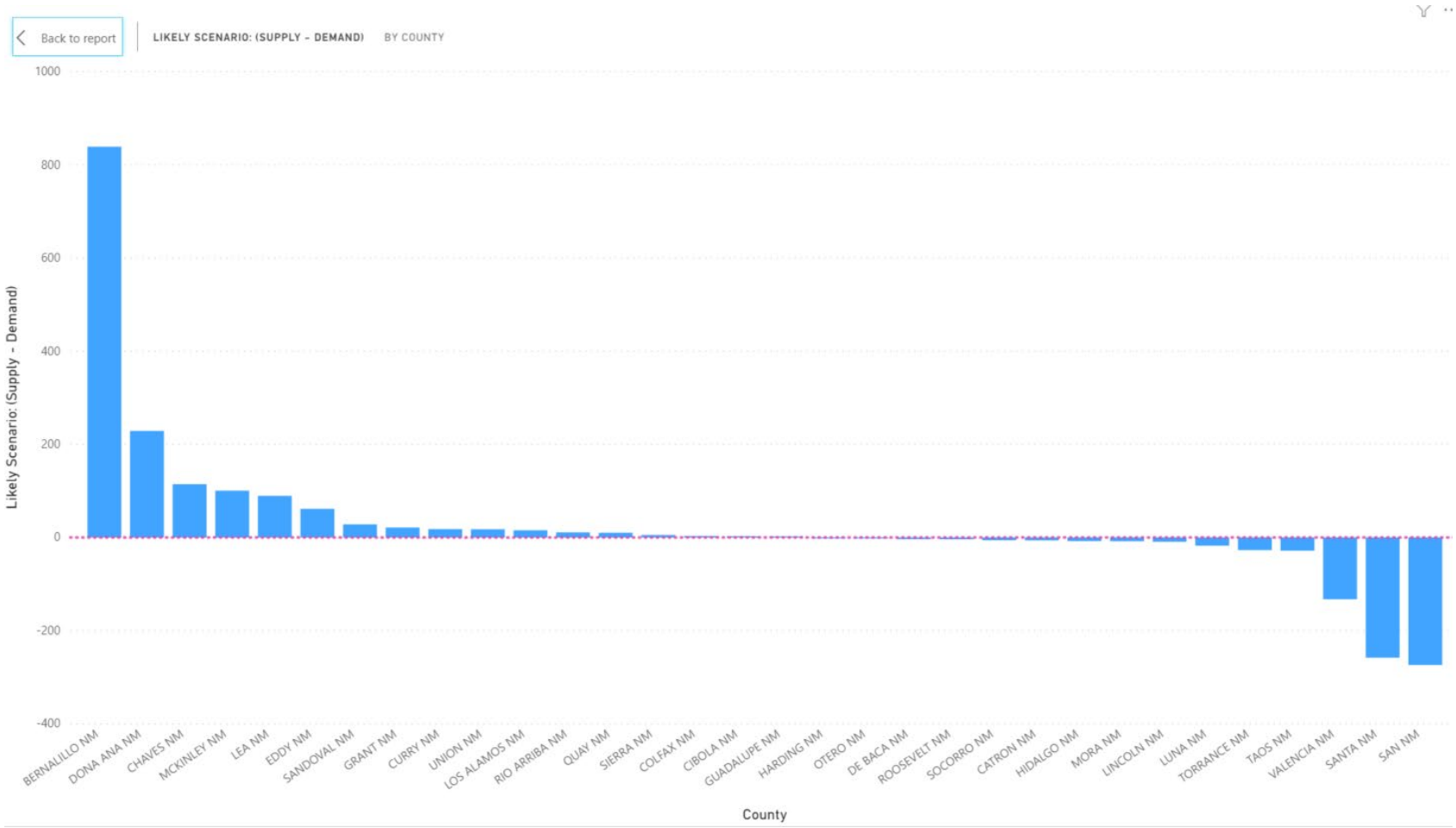

Fig 2: In the more likely scenario where some precautions are taken to flatten the curve, data suggests some Counties will still be unable to meet the needed demand. The peak will hit in early June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made.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

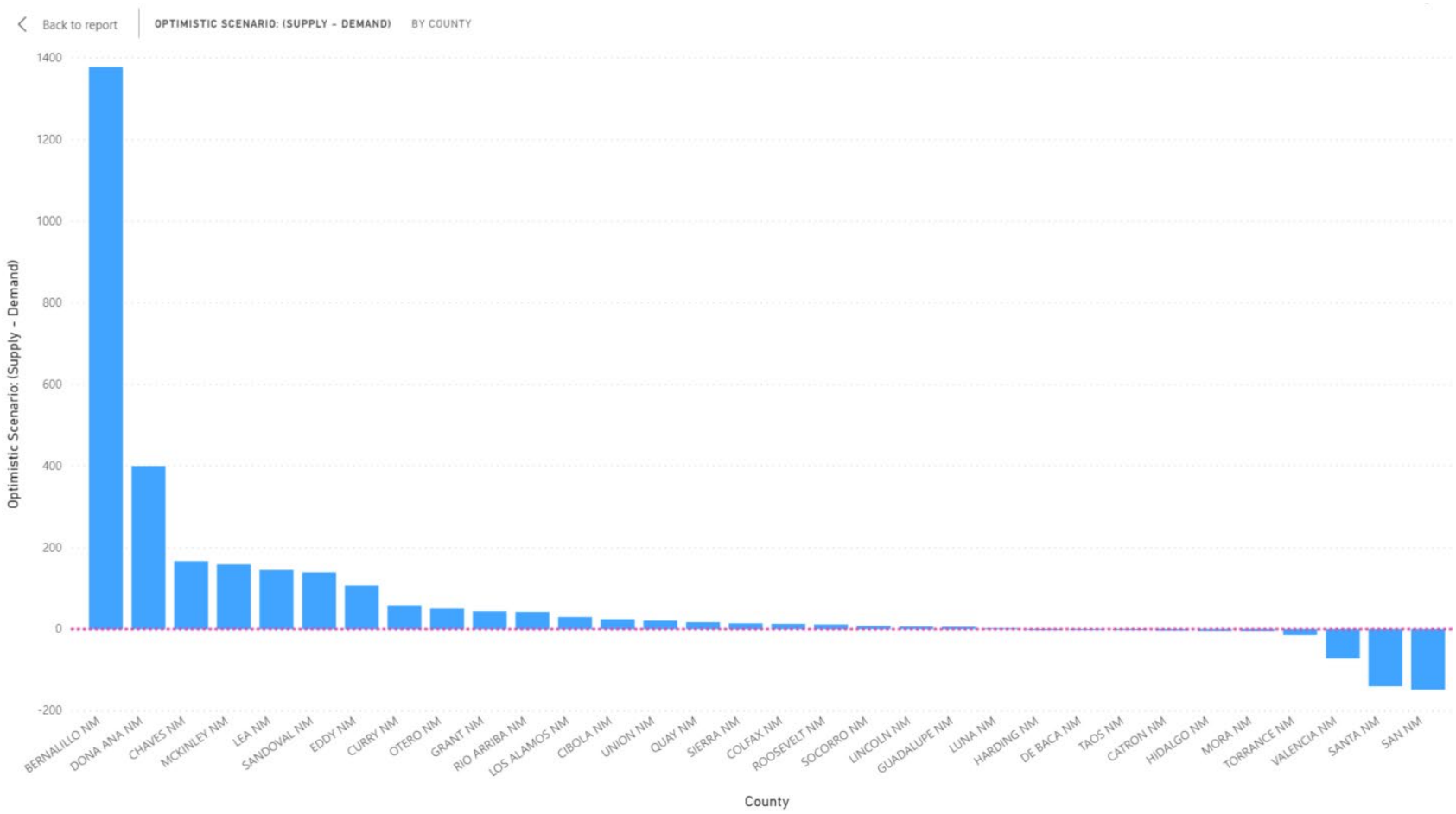

Fig 3: In the scenario where all precautions are taken to flatten the curve, data suggests almost all Counties will be able to meet the needed demand. The peak will hit in June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Several Counties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

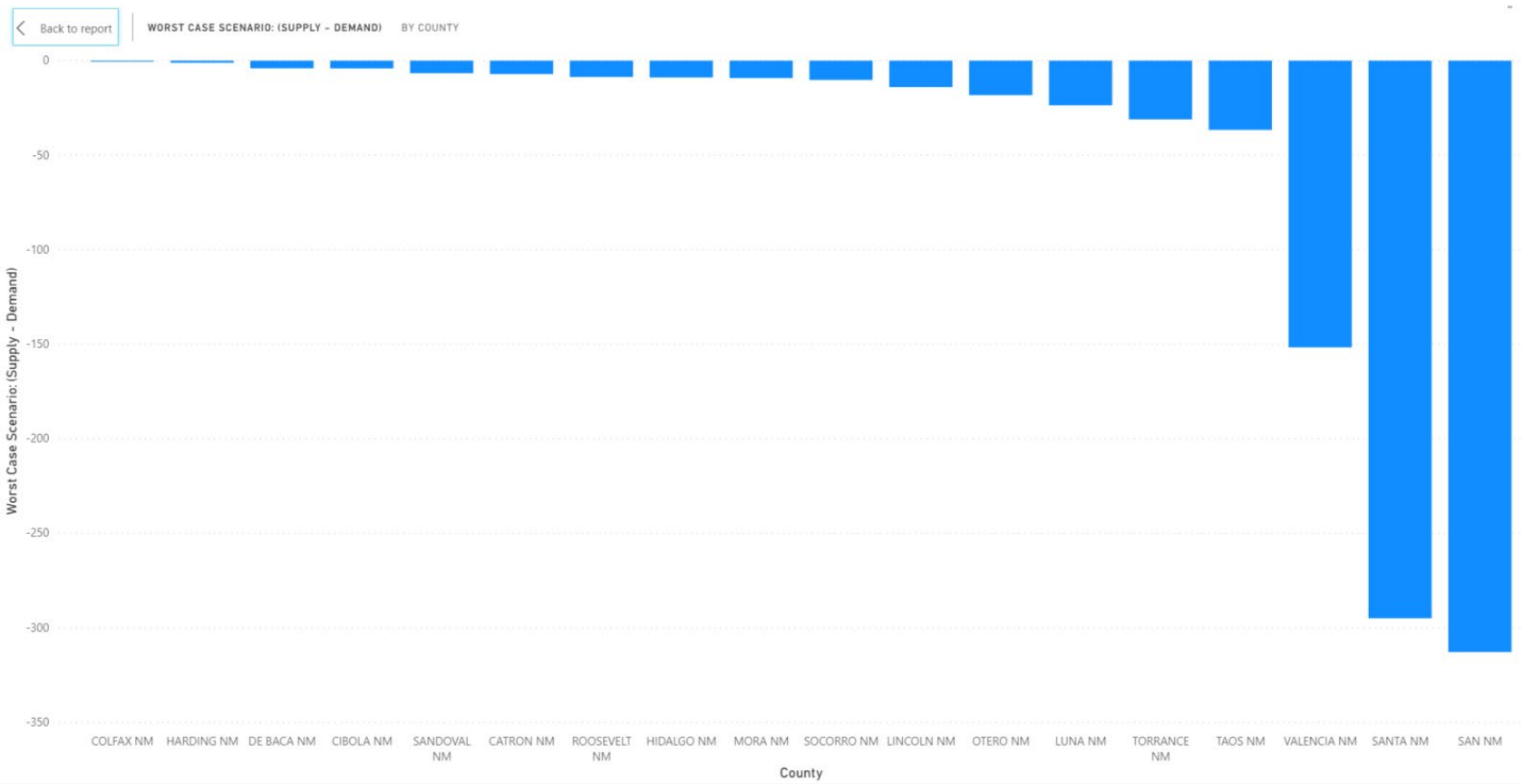

Fig 4: The figure above represents Counties that will run out of beds at peak for the Worst-Case scenario

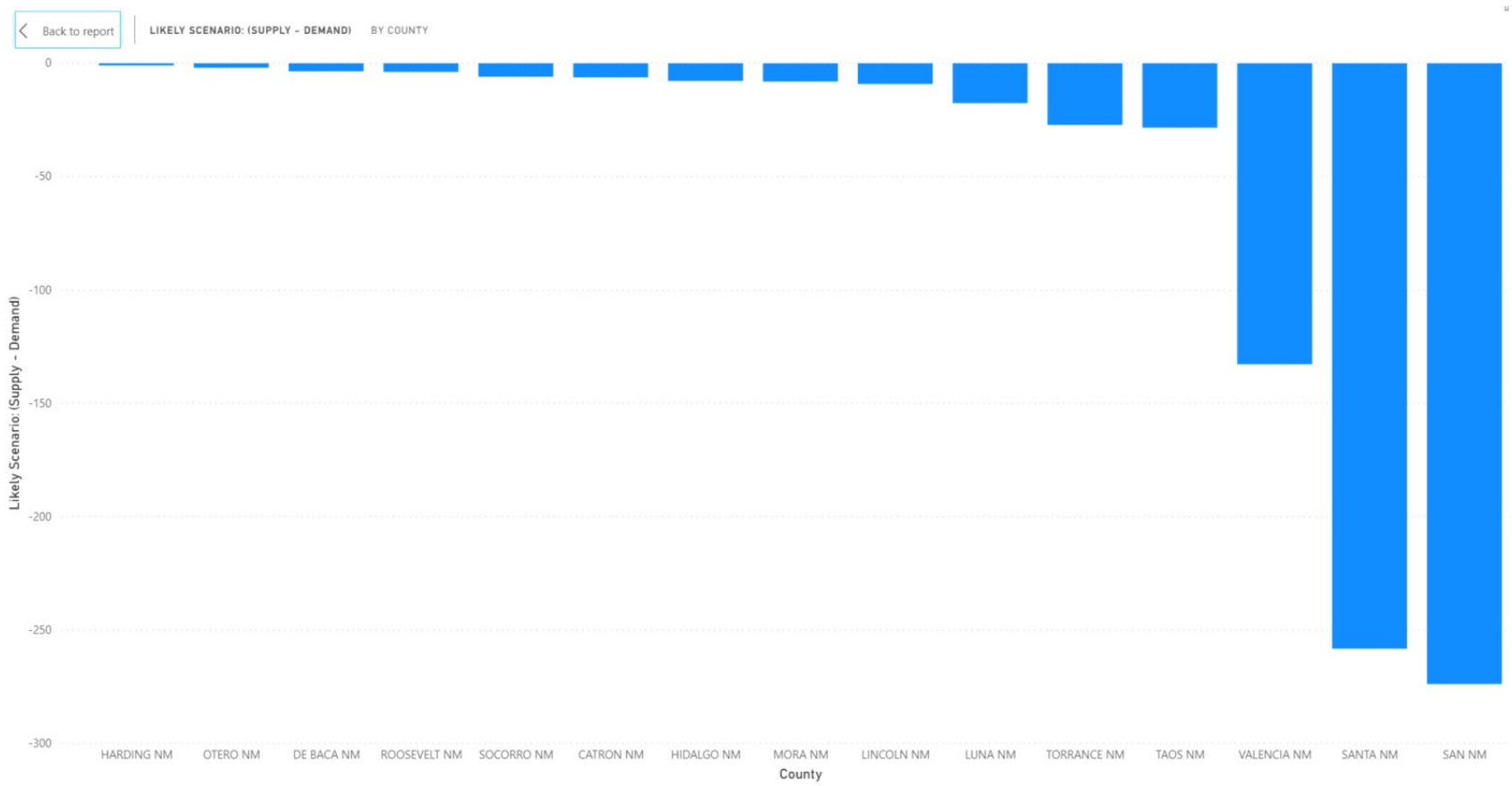

Fig 5: The figure above represents Counties that will run out of beds at peak for the Likely scenario

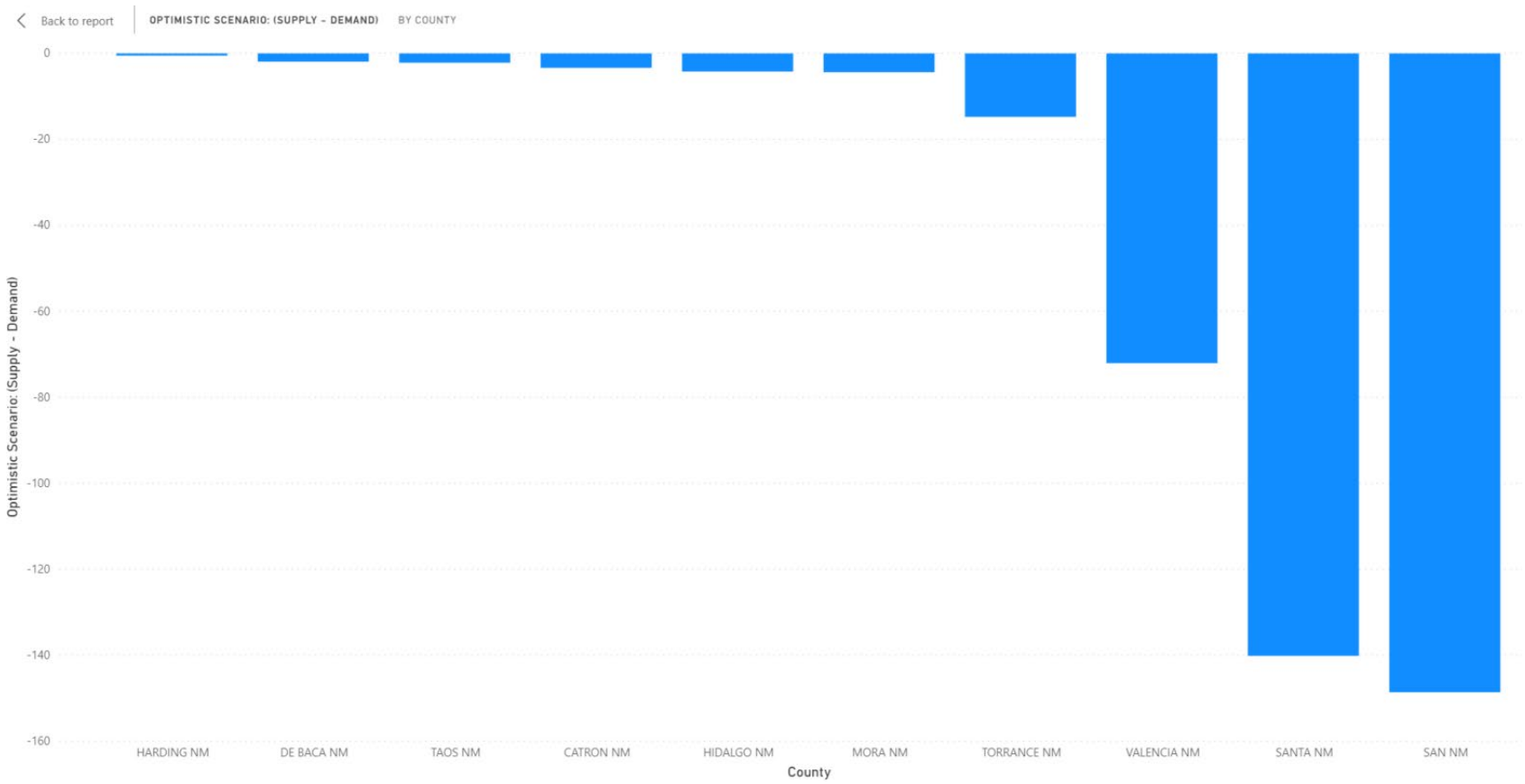

Fig 6: The figure above represents Counties that will run out of beds or do not have a hospital at peak for the Optimistic scenario

					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	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	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)
BERNALILLO NM	NM	674855	129453	2020	67	67	607	641	337	67	67	337	1181	337	67	67	675	1856	1350	101	67			
CATRON NM	NM	3547	1532	0	0	0	3	3	2	0	0	2	6	2	0	0	4	10	7	1	0	x	x	x
CHAVES NM	NM	65454	12593	229	7	7	59	62	33	7	7	33	115	33	7	7	65	180	131	10	7			
CIBOLA NM	NM	27049	5367	50	3	3	24	26	14	3	3	14	47	14	3	3	27	74	54	4	3			x
COLFAX NM	NM	12522	3965	25	1	1	11	12	6	1	1	6	22	6	1	1	13	34	25	2	1			x
CURRY NM	NM	50283	7637	106	5	5	45	48	25	5	5	25	88	25	5	5	50	138	101	8	5			x
DE BACA NM	NM	2016	413	0	0	0	2	2	1	0	0	1	4	1	0	0	2	6	4	0	0	x	x	x
DONA ANA NM	NM	213849	38778	603	21	21	192	203	107	21	21	107	374	107	21	21	214	588	428	32	21			
EDDY NM	NM	56793	10757	161	6	6	51	54	28	6	6	28	99	28	6	6	57	156	114	9	6			
GRANT NM	NM	28382	8127	71	3	3	26	27	14	3	3	14	50	14	3	3	28	78	57	4	3			x
GUADALUPE NM	NM	4426	1040	10	0	0	4	4	2	0	0	2	8	2	0	0	4	12	9	1	0			x
HARDING NM	NM	546	230	0	0	0	0	1	0	0	0	0	1	0	0	0	1	2	1	0	0	x	x	x
HIDALGO NM	NM	4446	1102	0	0	0	4	4	2	0	0	2	8	2	0	0	4	12	9	1	0	x	x	x
LEA NM	NM	69505	9882	211	7	7	63	66	35	7	7	35	122	35	7	7	70	191	139	10	7			
LINCOLN NM	NM	19497	6443	25	2	2	18	19	10	2	2	10	34	10	2	2	19	54	39	3	2		x	x
LOS ALAMOS NM	NM	18031	3871	47	2	2	16	17	9	2	2	9	32	9	2	2	18	50	36	3	2			x
LUNA NM	NM	24319	5905	25	2	2	22	23	12	2	2	12	43	12	2	2	24	67	49	4	2		x	x
MCKINLEY NM	NM	72849	11059	228	7	7	66	69	36	7	7	36	127	36	7	7	73	200	146	11	7			
MORA NM	NM	4605	1317	0	0	0	4	4	2	0	0	2	8	2	0	0	5	13	9	1	0	x	x	x
OTERO NM	NM	65130	13145	112	7	7	59	62	33	7	7	33	114	33	7	7	65	179	130	10	7		x	x
QUAY NM	NM	8447	2499	25	1	1	8	8	4	1	1	4	15	4	1	1	8	23	17	1	1			
RIO ARRIBA NM	NM	39455	9130	80	4	4	36	37	20	4	4	20	69	20	4	4	39	109	79	6	4			x
ROOSEVELT NM	NM	19313	3057	30	2	2	17	18	10	2	2	10	34	10	2	2	19	53	39	3	2		x	x
SANDOVAL NM	NM	138815	28966	271	14	14	125	132	69	14	14	69	243	69	14	14	139	382	278	21	14			x
SAN NM	NM	128221	21722	0	13	13	115	122	64	13	13	64	224	64	13	13	128	353	256	19	13	x	x	x
SAN NM	NM	28203	6929	0	3	3	25	27	14	3	3	14	49	14	3	3	28	78	56	4	3	x	x	x
SANTA NM	NM	147514	39745	0	15	15	133	140	74	15	15	74	258	74	15	15	148	406	295	22	15	x	x	x
SIERRA NM	NM	11254	4619	25	1	1	10	11	6	1	1	6	20	6	1	1	11	31	23	2	1			x
SOCORRO NM	NM	17098	3642	24	2	2	15	16	9	2	2	9	30	9	2	2	17	47	34	3	2		x	x
TAOS NM	NM	32809	9539	29	3	3	30	31	16	3	3	16	57	16	3	3	33	90	66	5	3	x	x	x
TORRANCE NM	NM	15534	4140	0	2	2	14	15	8	2	2	8	27	8	2	2	16	43	31	2	2	x	x	x
UNION NM	NM	4216	916	25	0	0	4	4	2	0	0	2	7	2	0	0	4	12	8	1	0			
VALENCIA NM	NM	75845	15938	0	8	8	68	72	38	8	8	38	133	38	8	8	76	209	152	11	8	x	x	x

Table 1: Table with Data showing all three scenarios