

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

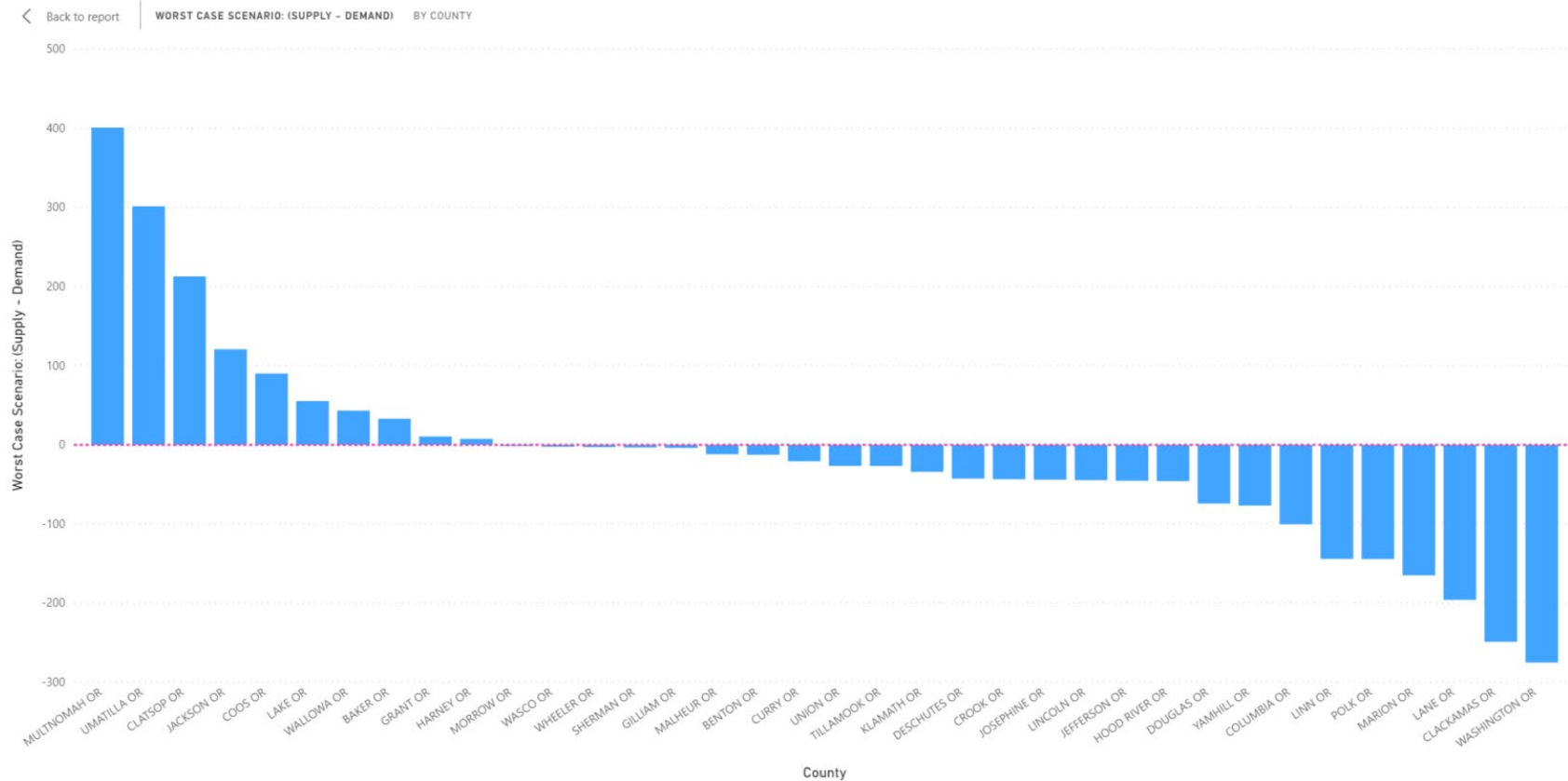


Fig 1: The above figure shows Supply minus Demand at peak using the Imperial-College-COVID19-NPI-modelling-16-03-2020 and the exponential regression model in the article published. All appearing above the red dashed line have capacity even at peak. All Counties that at or falling below the red line are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

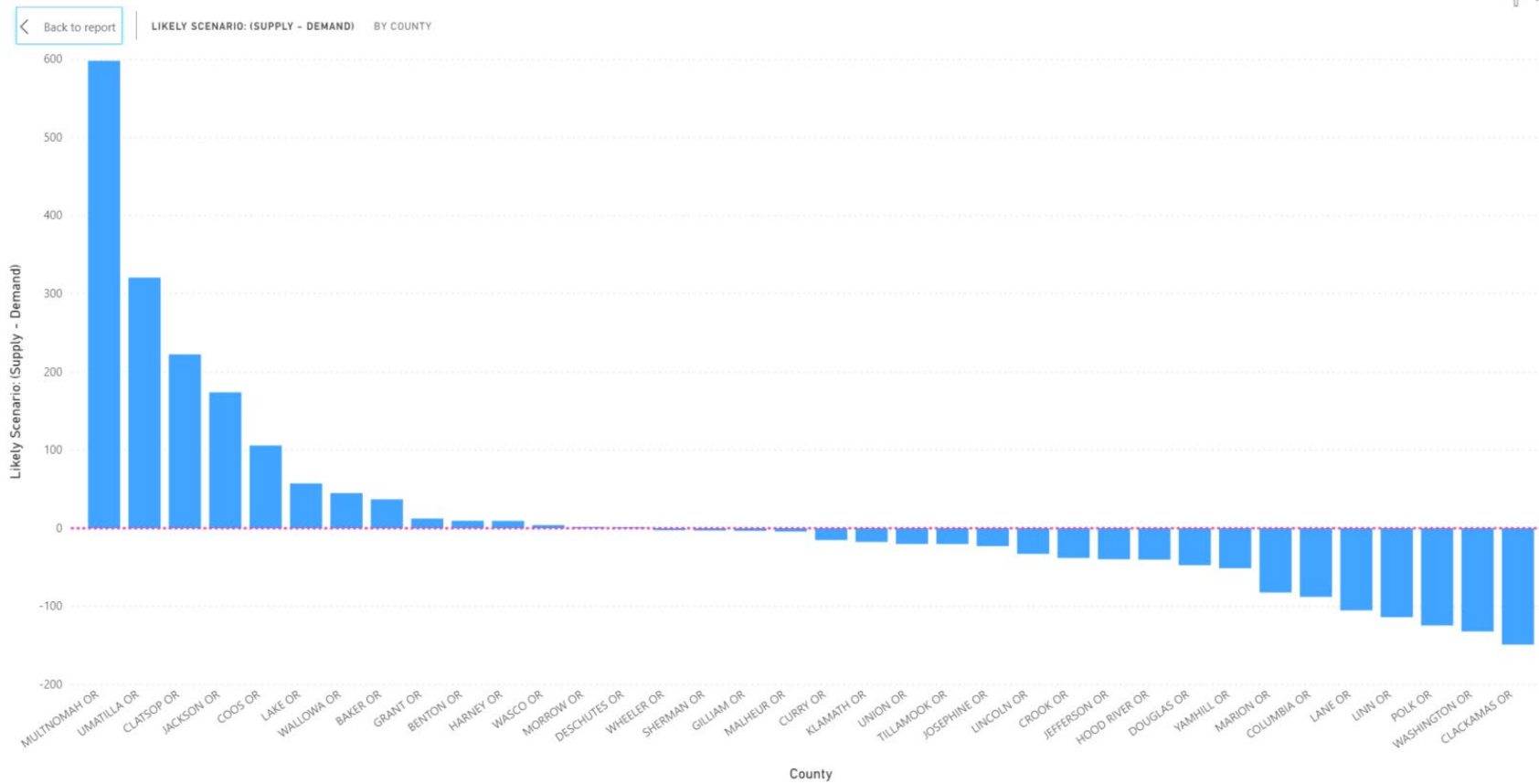


Fig 2: In the more likely scenario where some precautions are taken to flatten the curve, data suggests some Counties will still be unable to meet the needed demand. The peak will hit in early June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made.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

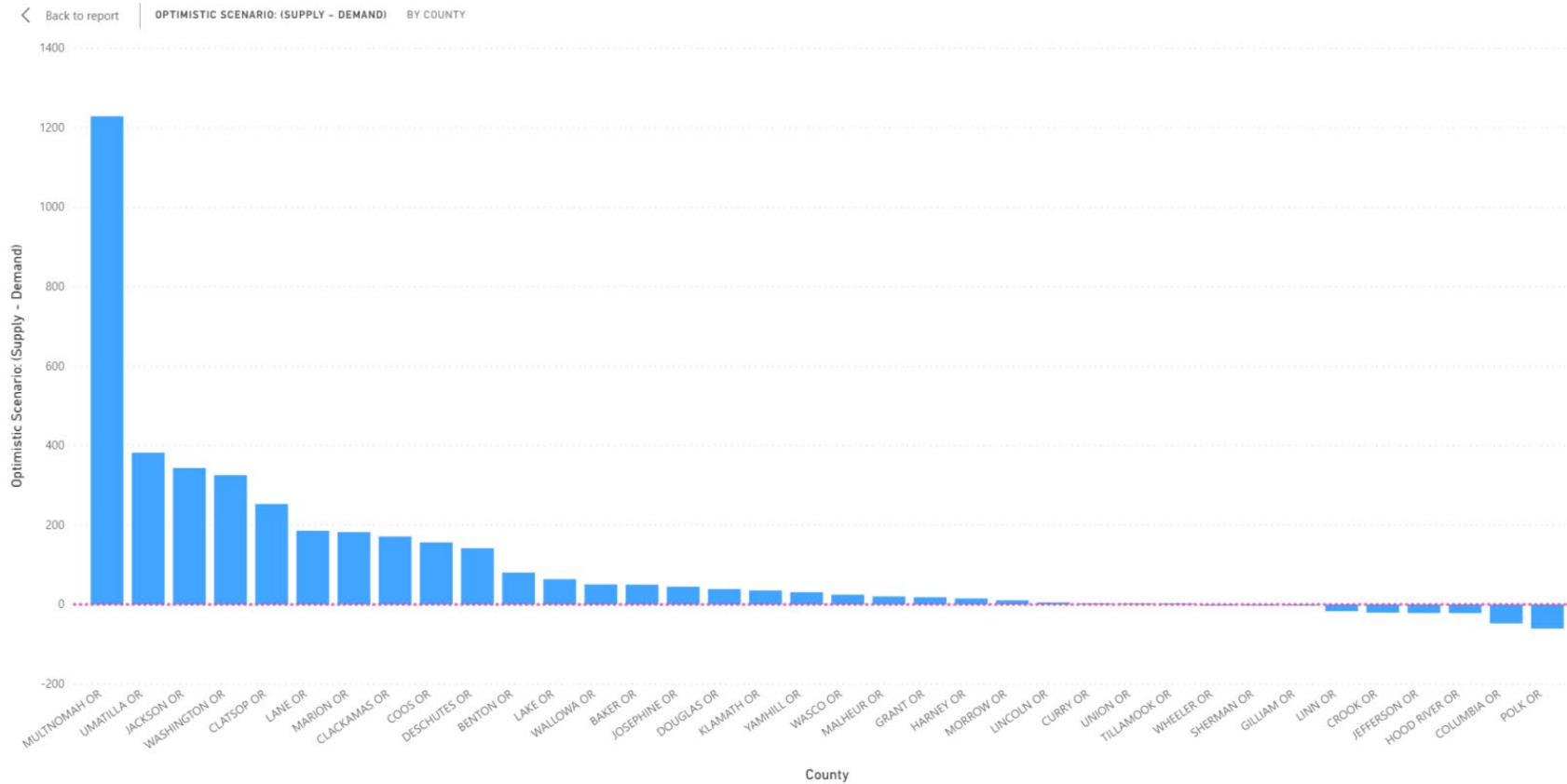


Fig 3: In the scenario where all precautions are taken to flatten the curve, data suggests almost all Counties will be able to meet the needed demand. The peak will hit in June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Several Counties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

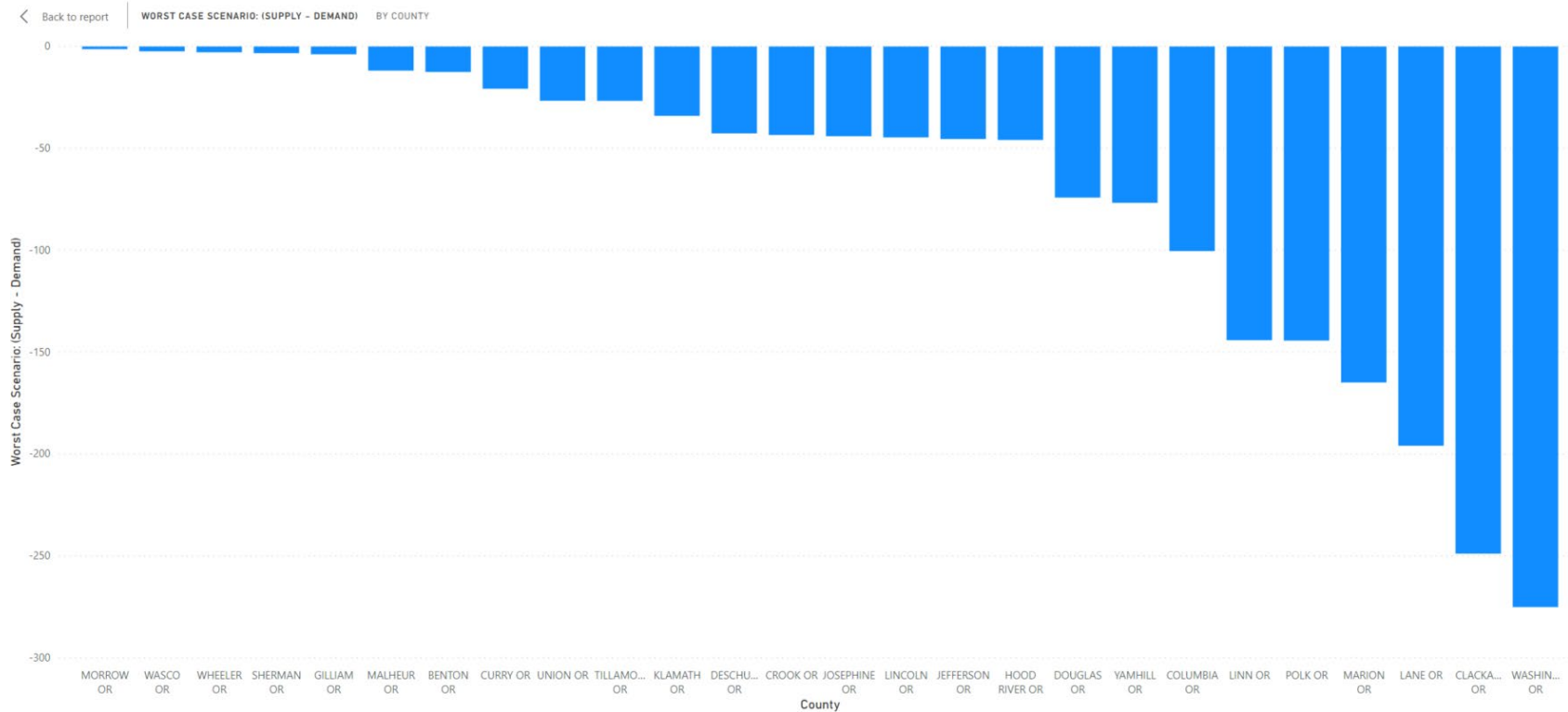


Fig 4: The figure above represents Counties that will run out of beds at peak for the Worst-Case scenario

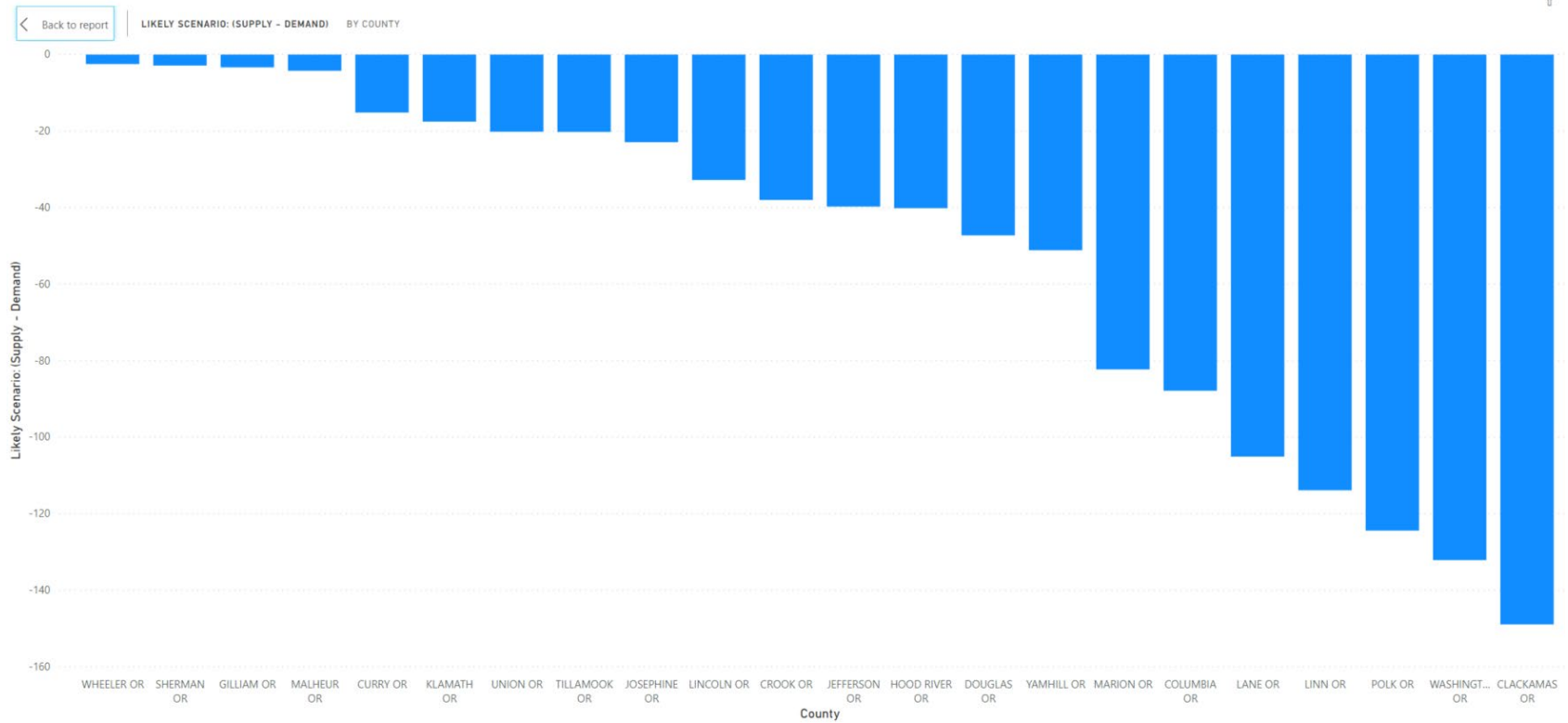


Fig 5: The figure above represents Counties that will run out of beds at peak for the Likely scenario

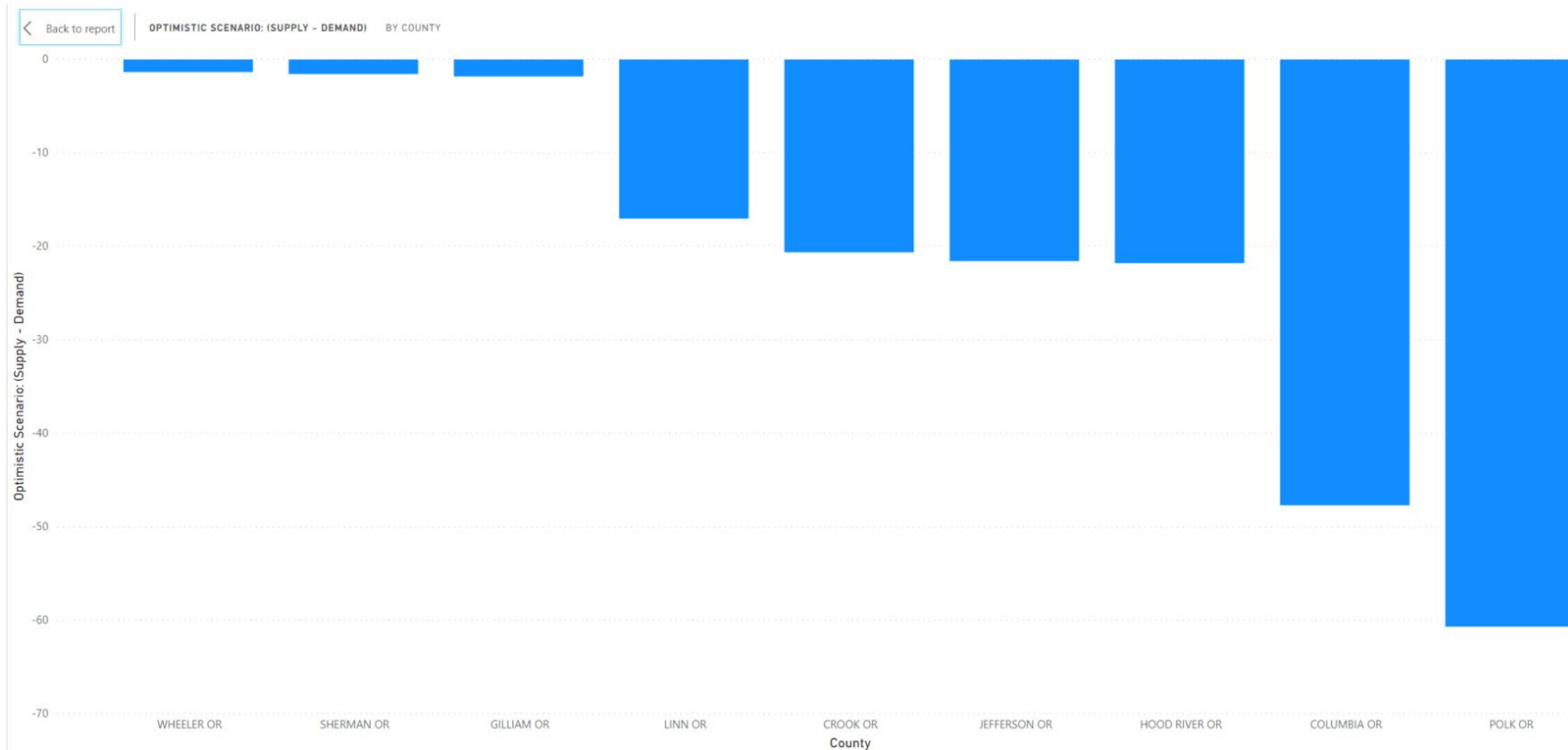


Fig 6: The figure above represents Counties that will run out of beds or do not have a hospital at peak for the Optimistic scenario

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										
BAKER OR	OR	15980	4860	65	2	2	14	15	8	2	2	8	28	8	2	2	16	44	32	2	2										
BENTON OR	OR	88249	16719	164	9	9	79	84	44	9	9	44	154	44	9	9	88	243	176	13	9										
CLACKAMAS OR	OR	399962	86627	551	40	40	360	380	200	40	40	200	700	200	40	40	400	1100	800	60	40										
CLATSOP OR	OR	38021	9931	289	4	4	34	36	19	4	4	19	67	19	4	4	38	105	76	6	4										
COLUMBIA OR	OR	50207	12270	0	5	5	45	48	25	5	5	25	88	25	5	5	50	138	100	8	5										
COOS OR	OR	62921	19451	216	6	6	57	60	31	6	6	31	110	31	6	6	63	173	126	9	6										
CROOK OR	OR	21717	6619	0	2	2	20	21	11	2	2	11	38	11	2	2	22	60	43	3	2										
CURRY OR	OR	22377	8442	24	2	2	20	21	11	2	2	11	39	11	2	2	22	62	45	3	2										
DESCHUTES OR	OR	175321	42143	308	18	18	158	167	88	18	18	88	307	88	18	18	175	482	351	26	18										
DOUGLAS OR	OR	107576	32193	141	11	11	97	102	54	11	11	54	188	54	11	11	108	296	215	16	11										
GILLIAM OR	OR	1910	606	0	0	0	2	2	1	0	0	1	3	1	0	0	2	5	4	0	0										
GRANT OR	OR	7209	2436	25	1	1	6	7	4	1	1	4	13	4	1	1	7	20	14	1	1										
HARNEY OR	OR	7195	2133	22	1	1	6	7	4	1	1	4	13	4	1	1	7	20	14	1	1										
HOOD RIVER OR	OR	22938	4417	0	2	2	21	22	11	2	2	11	40	11	2	2	23	63	46	3	2										
JACKSON OR	OR	212070	54057	545	21	21	191	201	106	21	21	106	371	106	21	21	212	583	424	32	21										
JEFFERSON OR	OR	22707	5380	0	2	2	20	22	11	2	2	11	40	11	2	2	23	62	45	3	2										
JOSEPHINE OR	OR	84514	25964	125	8	8	76	80	42	8	8	42	148	42	8	8	85	232	169	13	8										
KLAMATH OR	OR	66018	16516	98	7	7	59	63	33	7	7	33	116	33	7	7	66	182	132	10	7										
LAKE OR	OR	7807	2327	71	1	1	7	7	4	1	1	4	14	4	1	1	8	21	16	1	1										
LANE OR	OR	363471	81575	531	36	36	327	345	182	36	36	182	636	182	36	36	363	1000	727	55	36										
LINCOLN OR	OR	47307	16030	50	5	5	43	45	24	5	5	24	83	24	5	5	47	130	95	7	5										
LINN OR	OR	121074	26858	98	12	12	109	115	61	12	12	61	212	61	12	12	121	333	242	18	12										
MALHEUR OR	OR	30421	6027	49	3	3	27	29	15	3	3	15	53	15	3	3	30	84	61	5	3										
MARION OR	OR	330453	62379	496	33	33	297	314	165	33	33	165	578	165	33	33	330	909	661	50	33										
MORROW OR	OR	11153	2236	21	1	1	10	11	6	1	1	6	20	6	1	1	11	31	22	2	1										
MULTNOMAH OR	OR	788459	131163	1978	79	79	710	749	394	79	79	394	1380	394	79	79	788	2168	1577	118	79										
POLK OR	OR	79666	16569	15	8	8	72	76	40	8	8	40	139	40	8	8	80	219	159	12	8										
SHERMAN OR	OR	1635	499	0	0	0	1	2	1	0	0	1	3	1	0	0	2	4	3	0	0										
TILLAMOOK OR	OR	25840	8141	25	3	3	23	25	13	3	3	13	45	13	3	3	26	71	52	4	3										
UMATILLA OR	OR	76736	14293	455	8	8	69	73	38	8	8	38	134	38	8	8	77	211	153	12	8										
UNION OR	OR	25810	6102	25	3	3	23	25	13	3	3	13	45	13	3	3	26	71	52	4	3										
WALLOWA OR	OR	6864	2369	57	1	1	6	7	3	1	1	3	12	3	1	1	7	19	14	1	1										
WASCO OR	OR	25687	6225	49	3	3	23	24	13	3	3	13	45	13	3	3	26	71	51	4	3										
WASHINGTON OR	OR	572071	91317	869	57	57	515	543	286	57	57	286	1001	286	57	57	572	1573	1144	86	57										
WHEELER OR	OR	1415	585	0	0	0	1	1	1	0	0	1	2	1	0	0	1	4	3	0	0										
YAMHILL OR	OR	102366	20499	128	10	10	92	97	51	10	10	51	179	51	10	10	102	282	205	15	10										

Table 1: Table with Data showing all three scenarios