

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

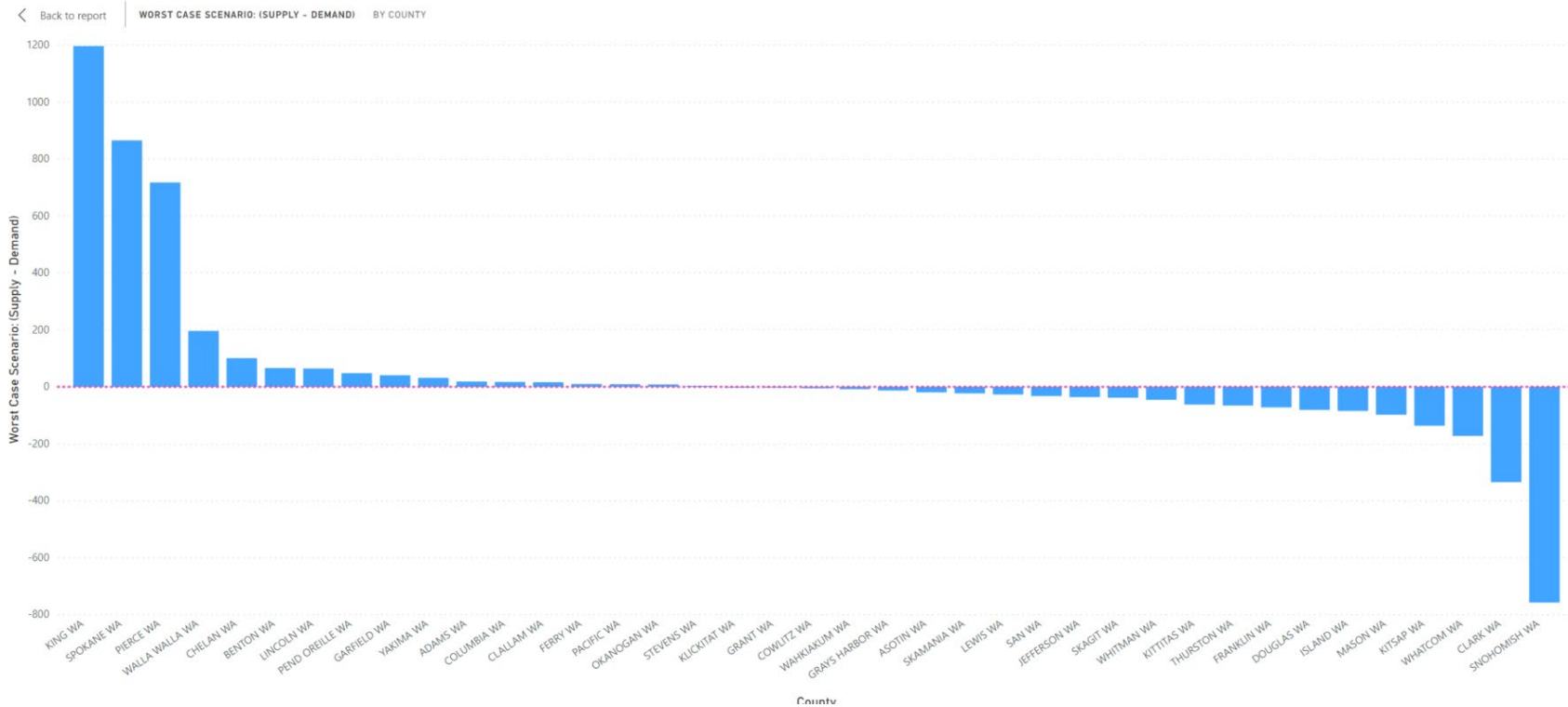


Fig 1: The above figure shows Supply minus Demand at peak using the Imperial-College-COVID19-NPI-modelling-16-03-2020 and the exponential regression model in the article published. All appearing above the red dashed line have capacity even at peak. All Counties that at or falling below the red line are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

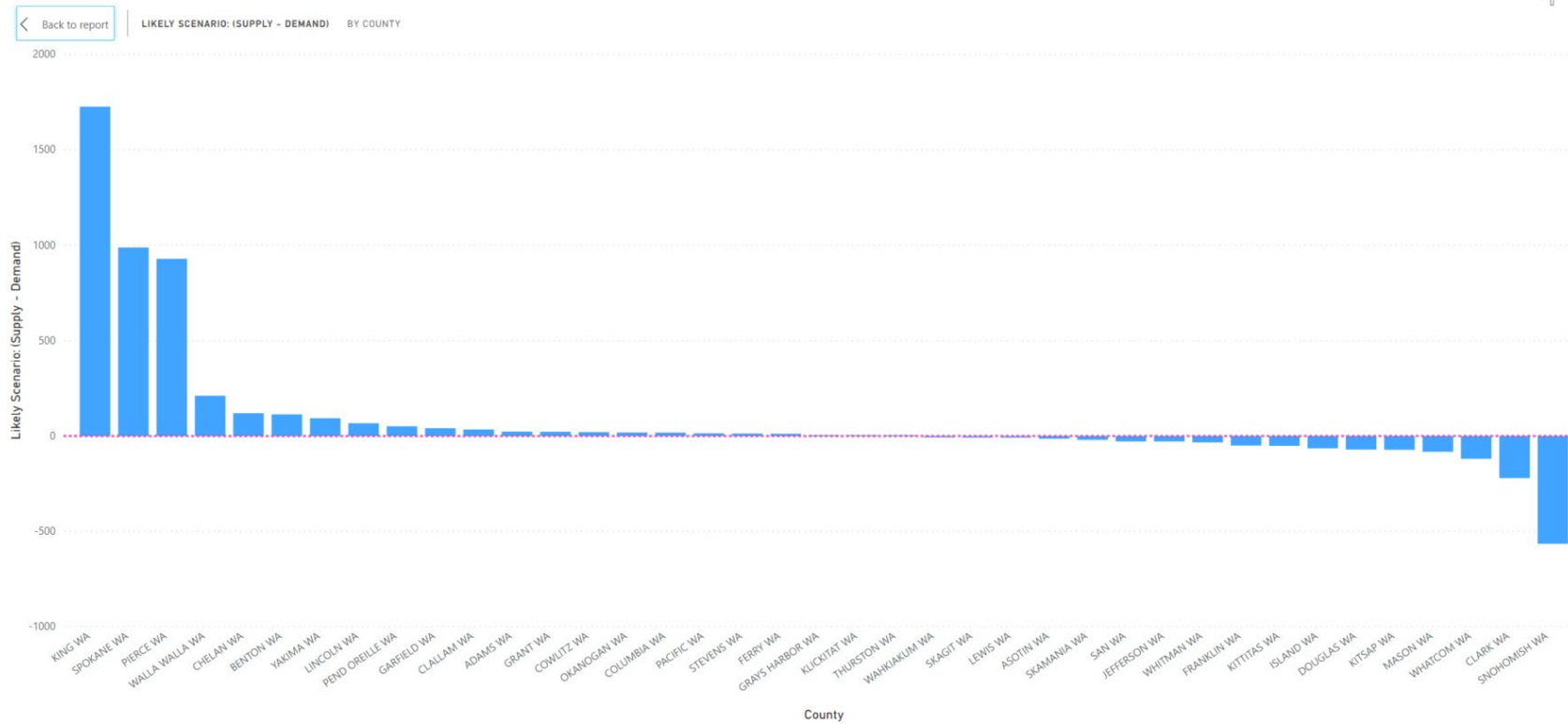


Fig 2: In the more likely scenario where some precautions are taken to flatten the curve, data suggests some Counties will still be unable to meet the needed demand. The peak will hit in early June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made.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

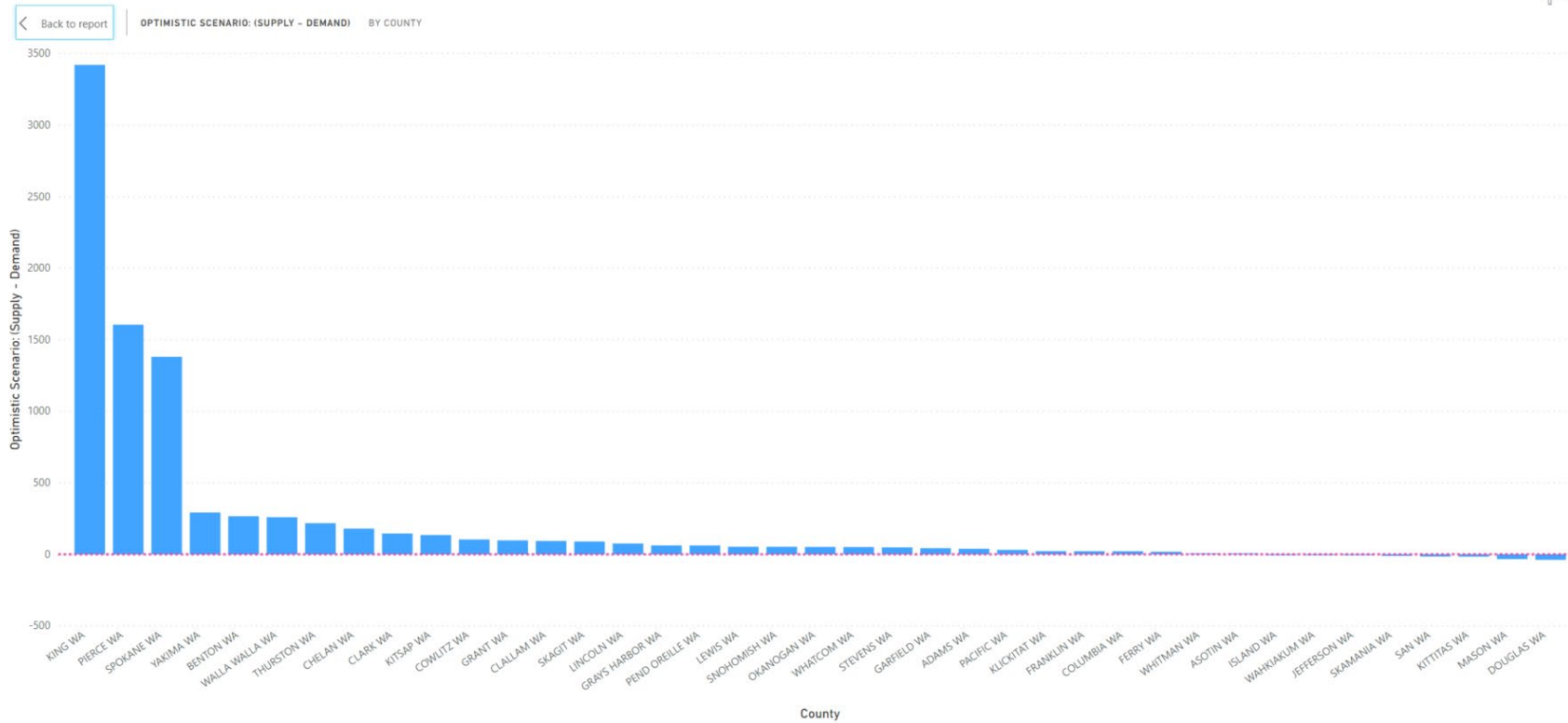


Fig 3: In the scenario where all precautions are taken to flatten the curve, data suggests almost all Counties will be able to meet the needed demand. The peak will hit in June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Several Counties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

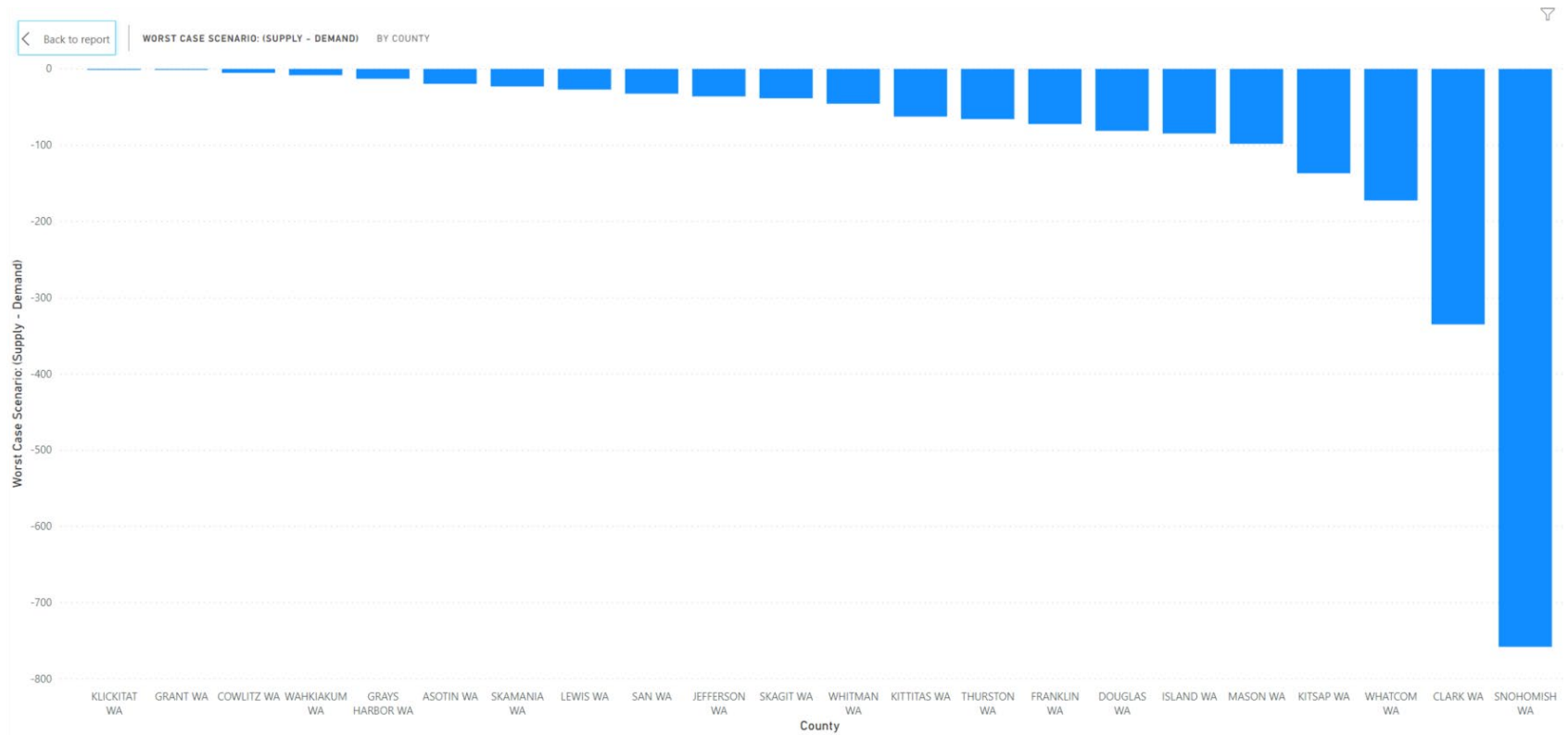


Fig 4: The figure above represents Counties that will run out of beds at peak for the Worst-Case scenario

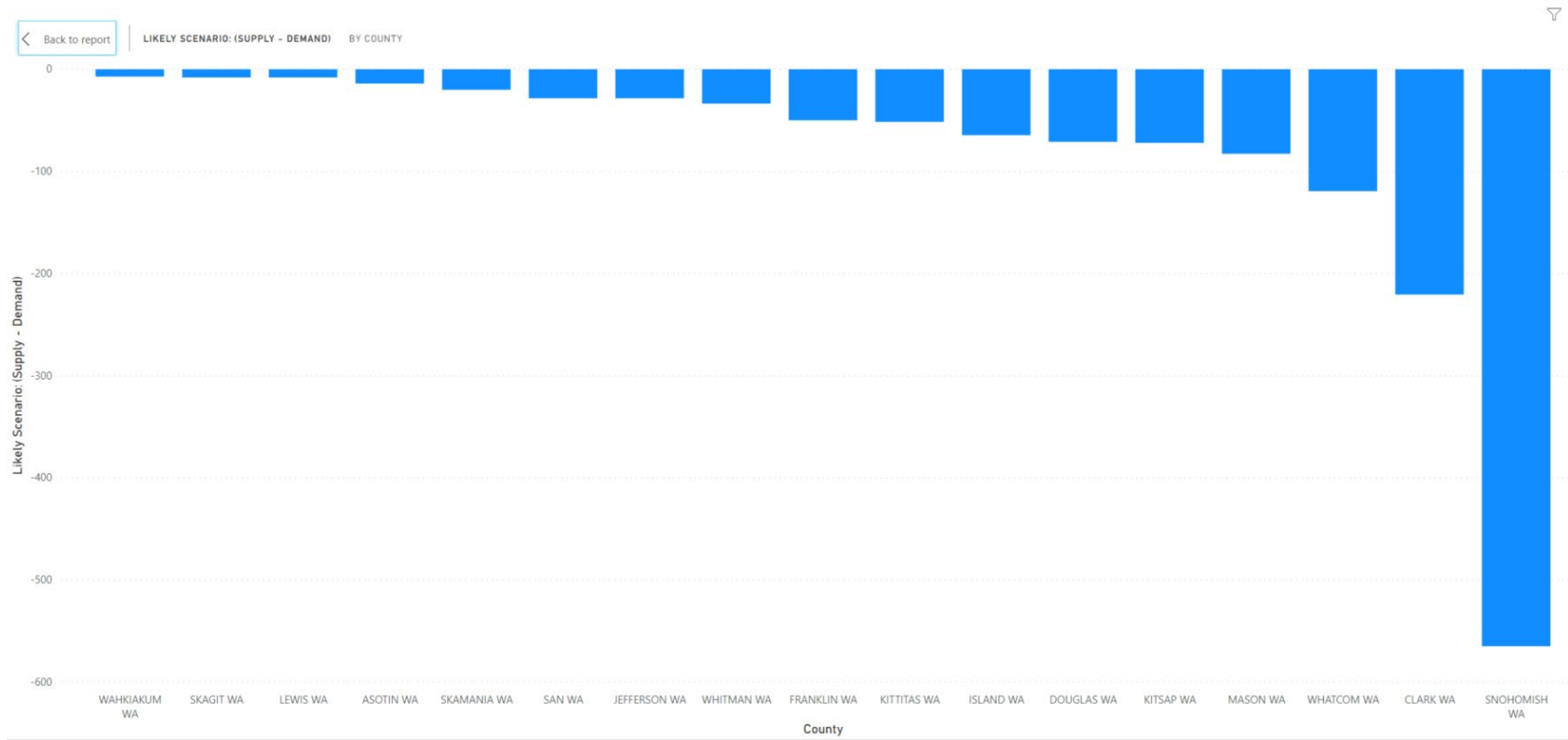


Fig 5: The figure above represents Counties that will run out of beds at peak for the Likely scenario

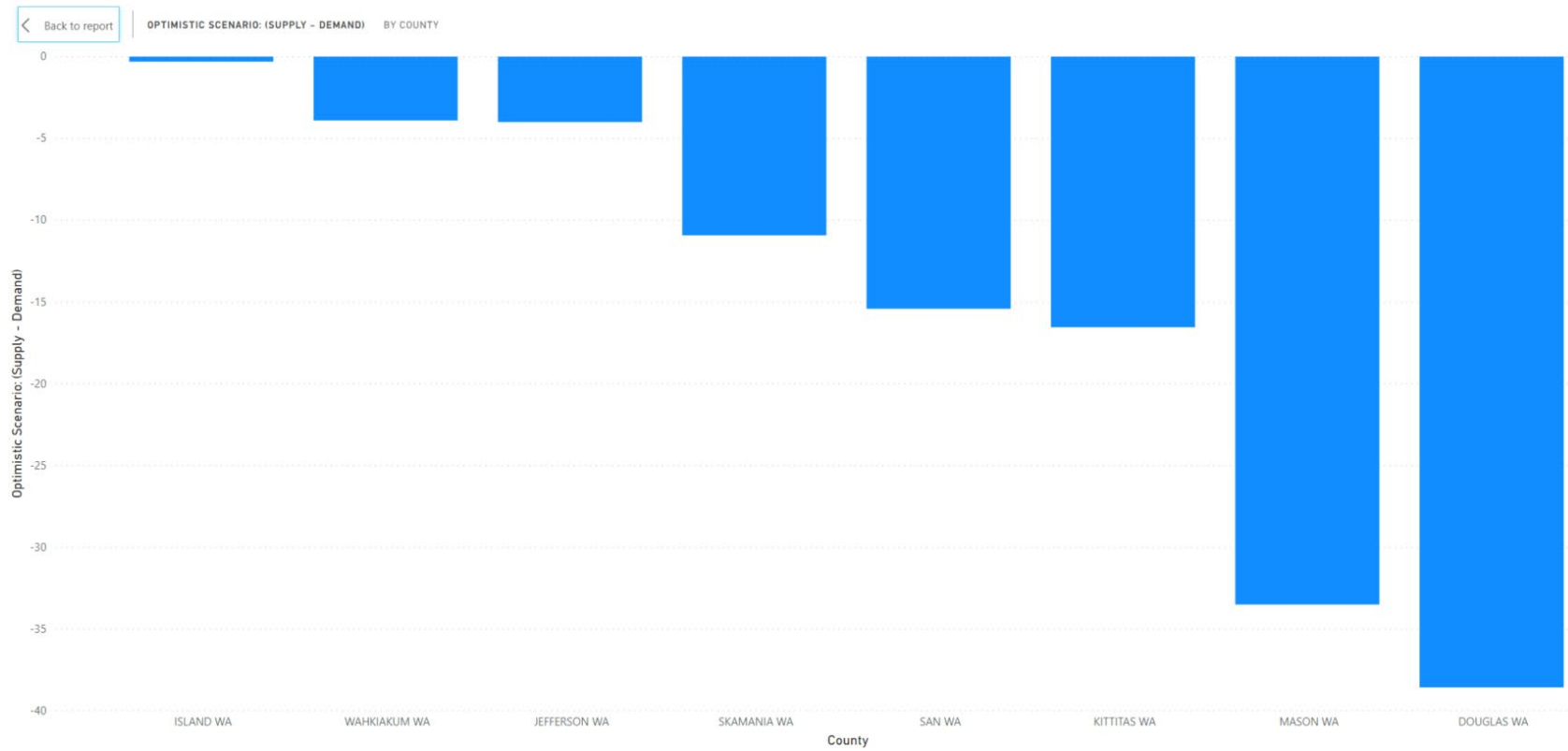


Fig 6: The figure above represents Counties that will run out of beds or do not have a hospital at peak for the Optimistic scenario

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 65+ Population		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)
		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 WA	WA	19261	2642	57	2	2	17	18	10	2	2	10	34	10	2	2	19	53	39	3	2									
ASOTIN WA	WA	22259	5808	25	2	2	20	21	11	2	2	11	39	11	2	2	22	61	45	3	2		x	x						
BENTON WA	WA	190529	34786	447	19	19	171	181	95	19	19	95	333	95	19	19	191	524	381	29	19			x						
CHELAN WA	WA	75138	16216	251	8	8	68	71	38	8	8	38	131	38	8	8	75	207	150	11	8									
CLALLAM WA	WA	73439	24155	163	7	7	66	70	37	7	7	37	129	37	7	7	73	202	147	11	7			x						
CLARK WA	WA	457474	85220	580	46	46	412	435	229	46	46	229	801	229	46	46	457	1258	915	69	46		x	x						
COLUMBIA WA	WA	3999	1226	25	0	0	4	4	2	0	0	2	7	2	0	0	4	11	8	1	0			x						
COWLITZ WA	WA	103590	23949	202	10	10	93	98	52	10	10	52	181	52	10	10	104	285	207	16	10			x						
DOUGLAS WA	WA	40585	8323	0	4	4	37	39	20	4	4	20	71	20	4	4	41	112	81	6	4	x	x	x						
FERRY WA	WA	7568	2402	25	1	1	7	7	4	1	1	4	13	4	1	1	8	21	15	1	1									
FRANKLIN WA	WA	89124	10307	106	9	9	80	85	45	9	9	45	156	45	9	9	89	245	178	13	9		x	x						
GARFIELD WA	WA	2226	648	45	0	0	2	2	1	0	0	1	4	1	0	0	2	6	4	0	0									
GRANT WA	WA	93420	15849	186	9	9	84	89	47	9	9	47	163	47	9	9	93	257	187	14	9			x						
GRAYS HARBOR WA	WA	71454	17682	130	7	7	64	68	36	7	7	36	125	36	7	7	71	196	143	11	7			x						
ISLAND WA	WA	80323	22695	76	8	8	72	76	40	8	8	40	141	40	8	8	80	221	161	12	8	x	x	x						
JEFFERSON WA	WA	30524	12795	25	3	3	27	29	15	3	3	15	53	15	3	3	31	84	61	5	3	x	x	x						
KING WA	WA	2118119	349406	5433	212	212	1906	2012	1059	212	212	1059	3707	1059	212	212	2118	5825	4236	318	212			x						
KITSAP WA	WA	258903	55001	381	26	26	233	246	129	26	26	129	453	129	26	26	259	712	518	39	26		x	x						
KITITIAS WA	WA	43726	8511	25	4	4	39	42	22	4	4	22	77	22	4	4	44	120	87	7	4	x	x	x						
KLICKITAT WA	WA	21172	6164	42	2	2	19	20	11	2	2	11	37	11	2	2	21	58	42	3	2			x						
LEWIS WA	WA	76012	18557	125	8	8	68	72	38	8	8	38	133	38	8	8	76	209	152	11	8		x	x						
LINCOLN WA	WA	10344	3123	85	1	1	9	10	5	1	1	5	18	5	1	1	10	28	21	2	1									
MASON WA	WA	61569	17216	25	6	6	55	58	31	6	6	31	108	31	6	6	62	169	123	9	6	x	x	x						
OKANOGAN WA	WA	41377	10940	91	4	4	37	39	21	4	4	21	72	21	4	4	41	114	83	6	4			x						
PACIFIC WA	WA	20940	7451	51	2	2	19	20	10	2	2	10	37	10	2	2	21	58	42	3	2			x						
PEND OREILLE WA	WA	13066	4185	74	1	1	12	12	7	1	1	7	23	7	1	1	13	36	26	2	1									
PIERCE WA	WA	845193	144586	2408	85	85	761	803	423	85	85	423	1479	423	85	85	845	2324	1690	127	85									
SAN WA	WA	16221	6191	0	2	2	15	15	8	2	2	8	28	8	2	2	16	45	32	2	2	x	x	x						
SKAGIT WA	WA	121725	29052	205	12	12	110	116	61	12	12	61	213	61	12	12	122	335	243	18	12			x						
SKAMANIA WA	WA	11498	3054	0	1	1	10	11	6	1	1	6	20	6	1	1	11	32	23	2	1	x	x	x						
SNOHOMISH WA	WA	771904	131893	786	77	77	695	733	386	77	77	386	1351	386	77	77	772	2123	1544	116	77		x	x						
SPOKANE WA	WA	490764	95819	1847	49	49	442	466	245	49	49	245	859	245	49	49	491	1350	982	74	49									
STEVENS WA	WA	43858	12247	90	4	4	39	42	22	4	4	22	77	22	4	4	44	121	88	7	4			x						
THURSTON WA	WA	269885	55553	474	27	27	243	256	135	27	27	135	472	135	27	27	270	742	540	40	27			x						
WAHIAKUM WA	WA	4105	1571	0	0	0	4	4	2	0	0	2	7	2	0	0	4	11	8	1	0	x	x	x						
WALLA WALLA WA	WA	59862	11733	316	6	6	54	57	30	6	6	30	105	30	6	6	60	165	120	9	6									
WHATCOM WA	WA	212738	43369	253	21	21	191	202	106	21	21	106	372	106	21	21	213	585	425	32	21		x	x						
WHITMAN WA	WA	47794	6119	50	5	5	43	45	24	5	5	24	84	24	5	5	48	131	96	7	5		x	x						
YAKIMA WA	WA	248279	40408	528	25	25	223	236	124	25	25	124	434	124	25	25	248	683	497	37	25			x						

Table 1: Table with Data showing all three scenarios