

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

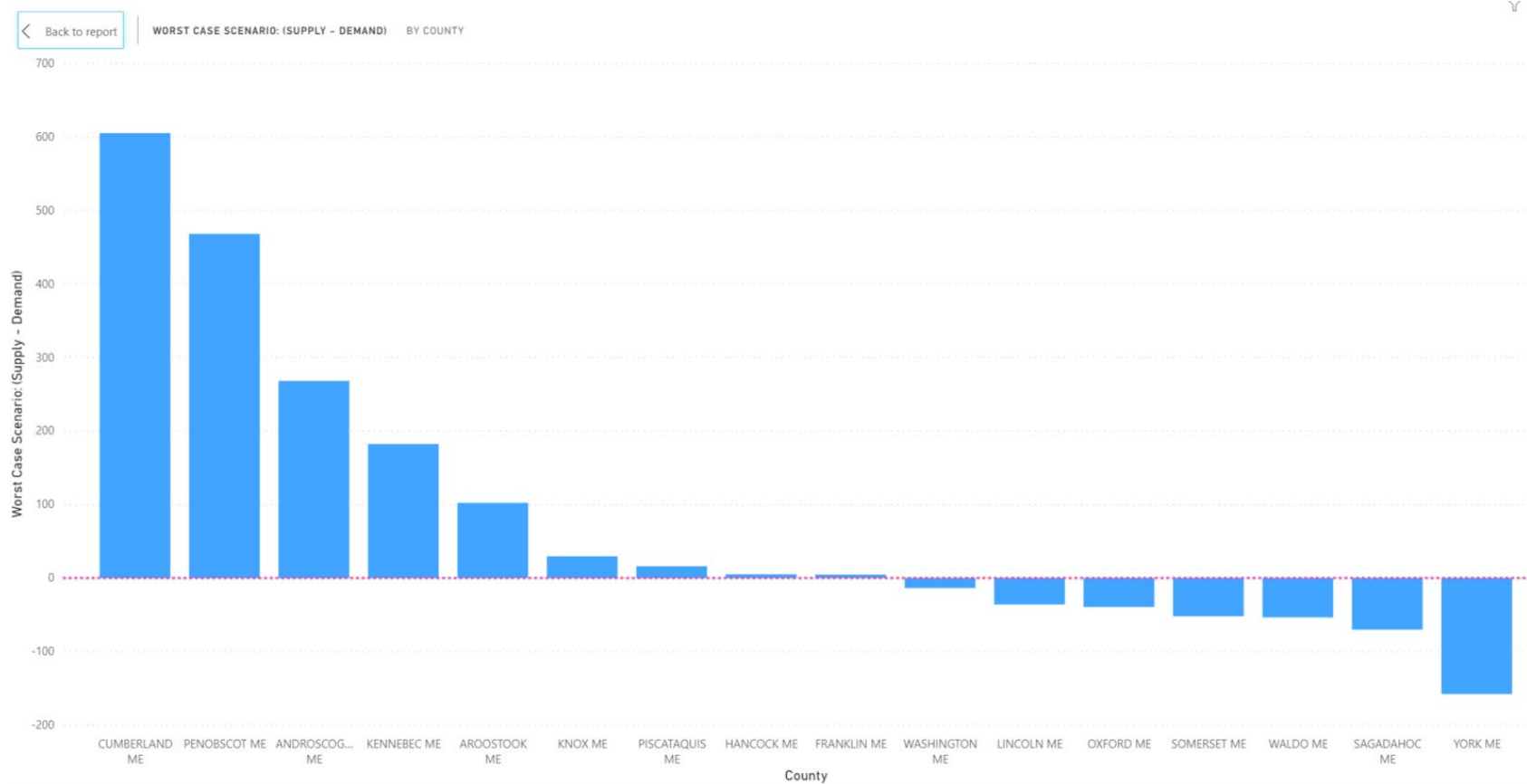


Fig 1: The above figure shows Supply minus Demand at peak using the Imperial-College-COVID19-NPI-modelling-16-03-2020 and the exponential regression model in the article published. All appearing above the red dashed line have capacity even at peak. All Counties that at or falling below the red line are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

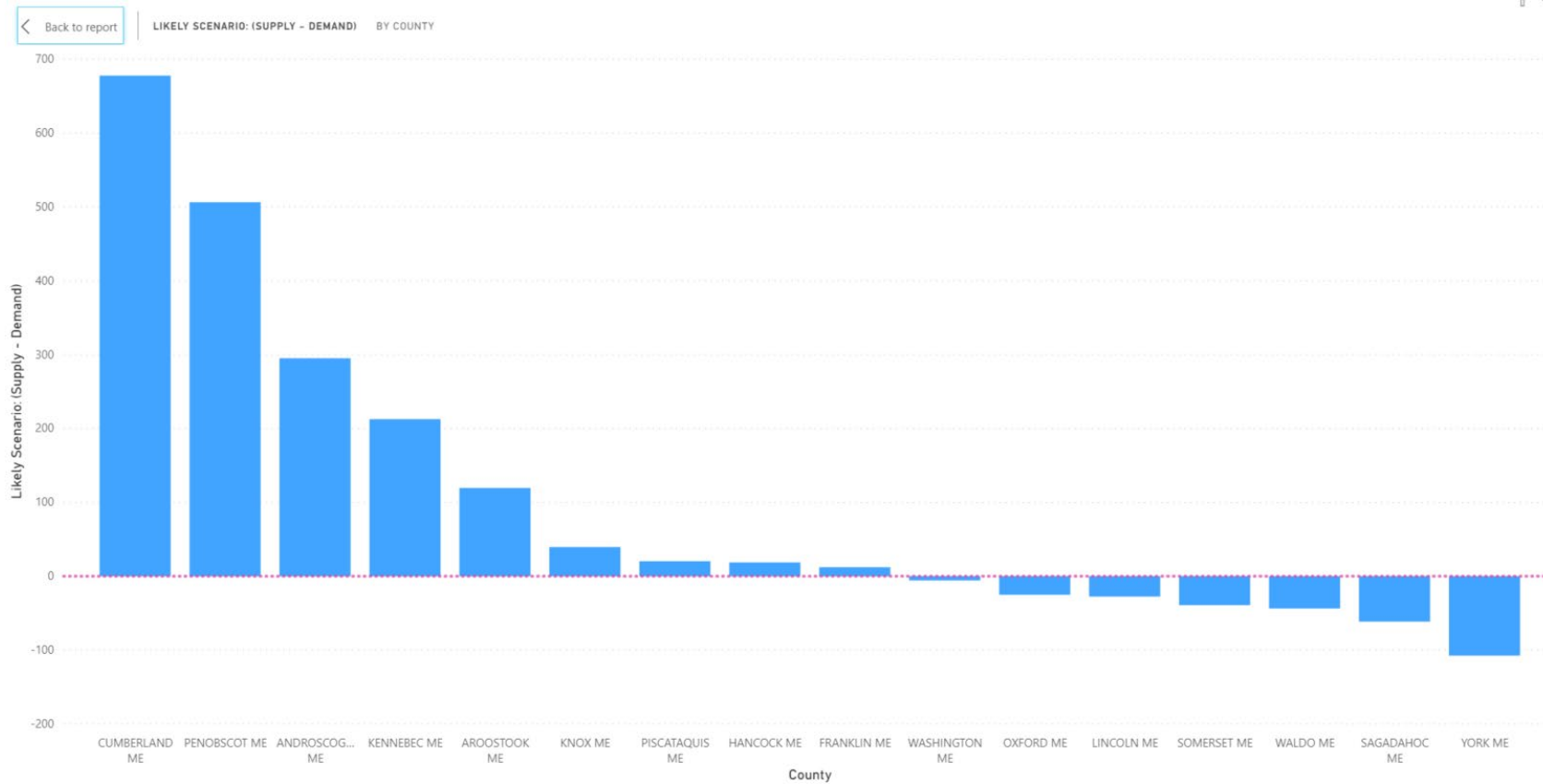


Fig 2: In the more likely scenario where some precautions are taken to flatten the curve, data suggests some Counties will still be unable to meet the needed demand. The peak will hit in early June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made.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

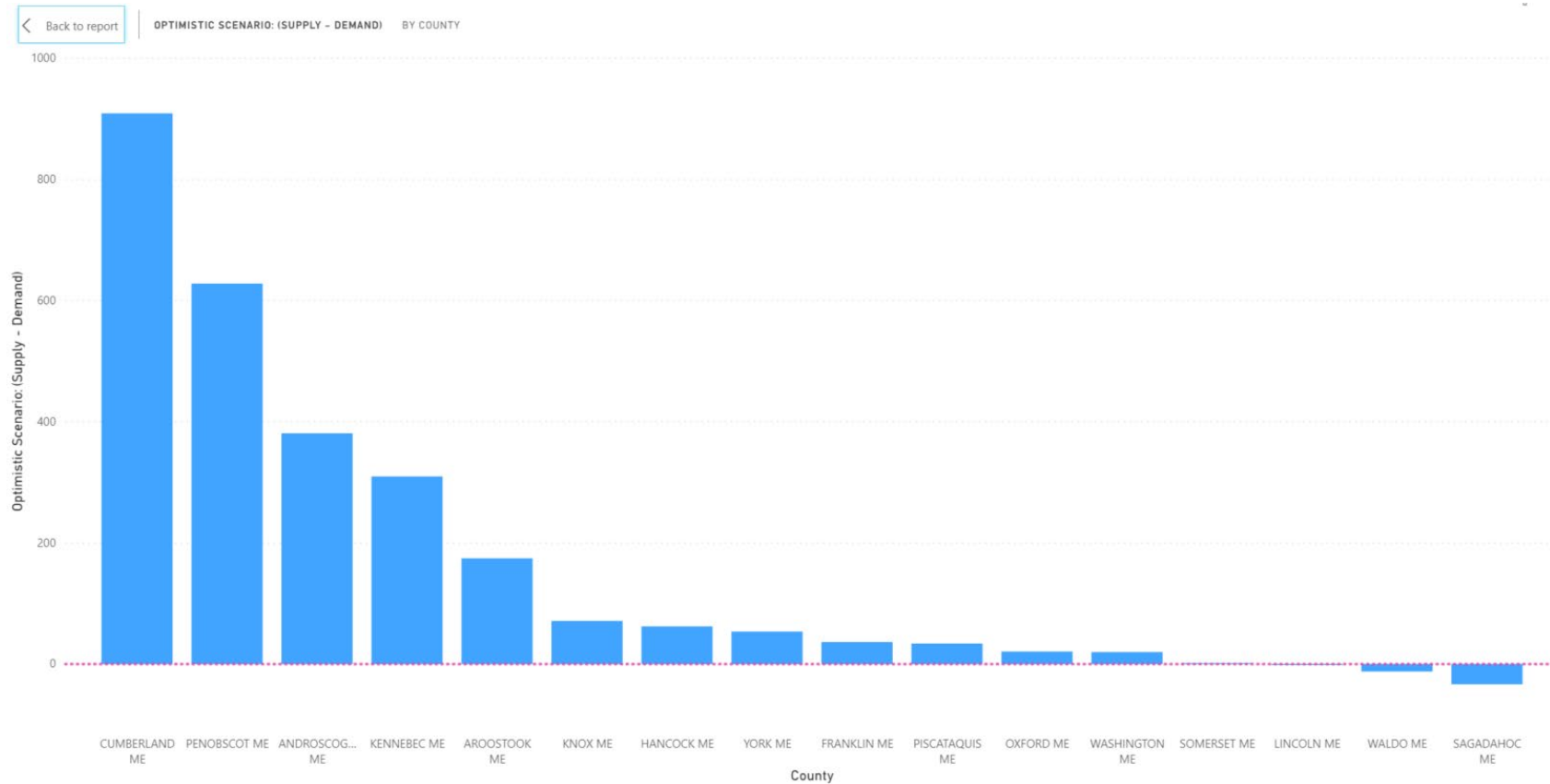


Fig 3: In the scenario where all precautions are taken to flatten the curve, data suggests almost all Counties will be able to meet the needed demand. The peak will hit in June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Several Counties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

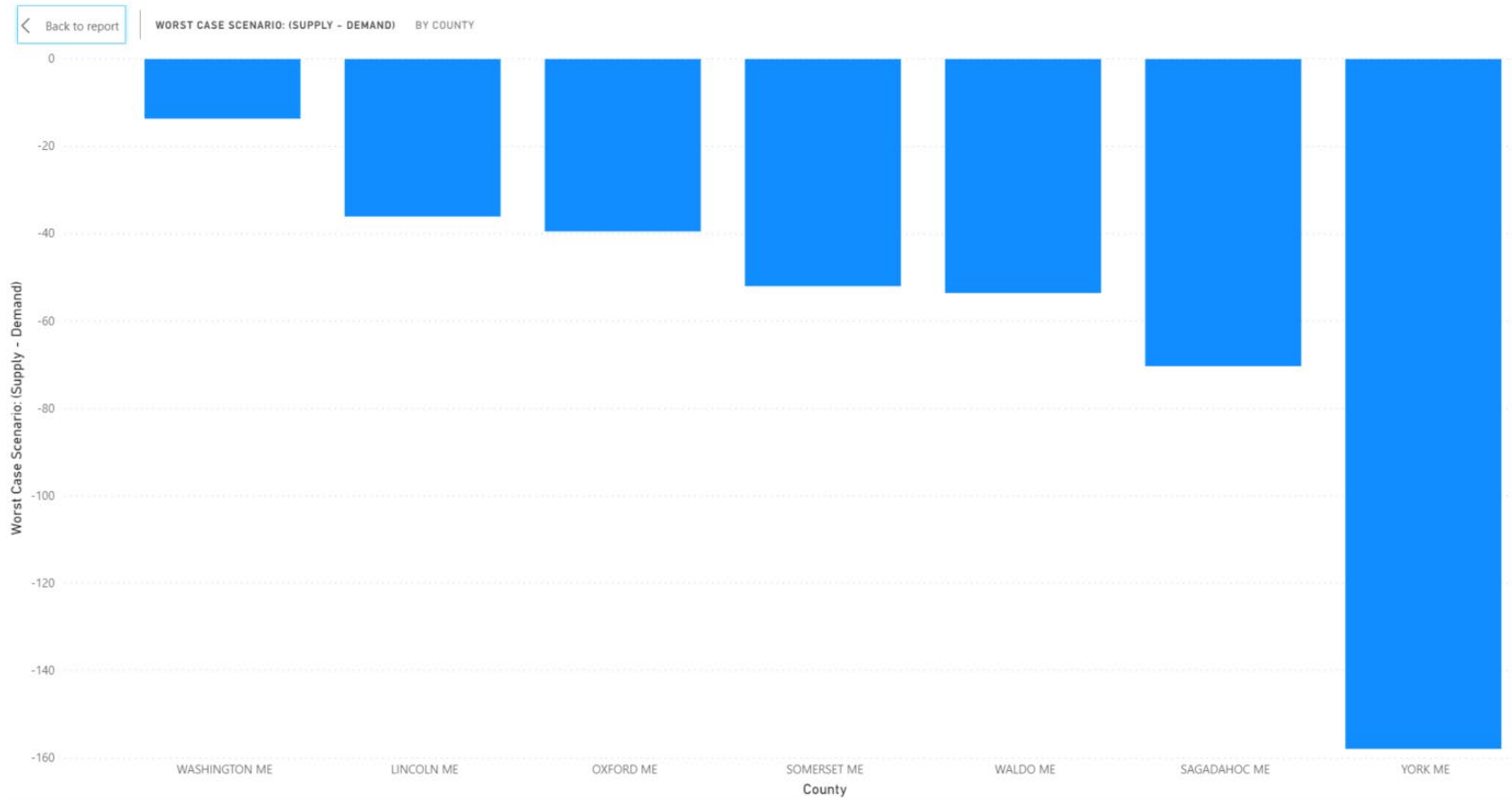


Fig 4: The figure above represents Counties that will run out of beds at peak for the Worst-Case scenario

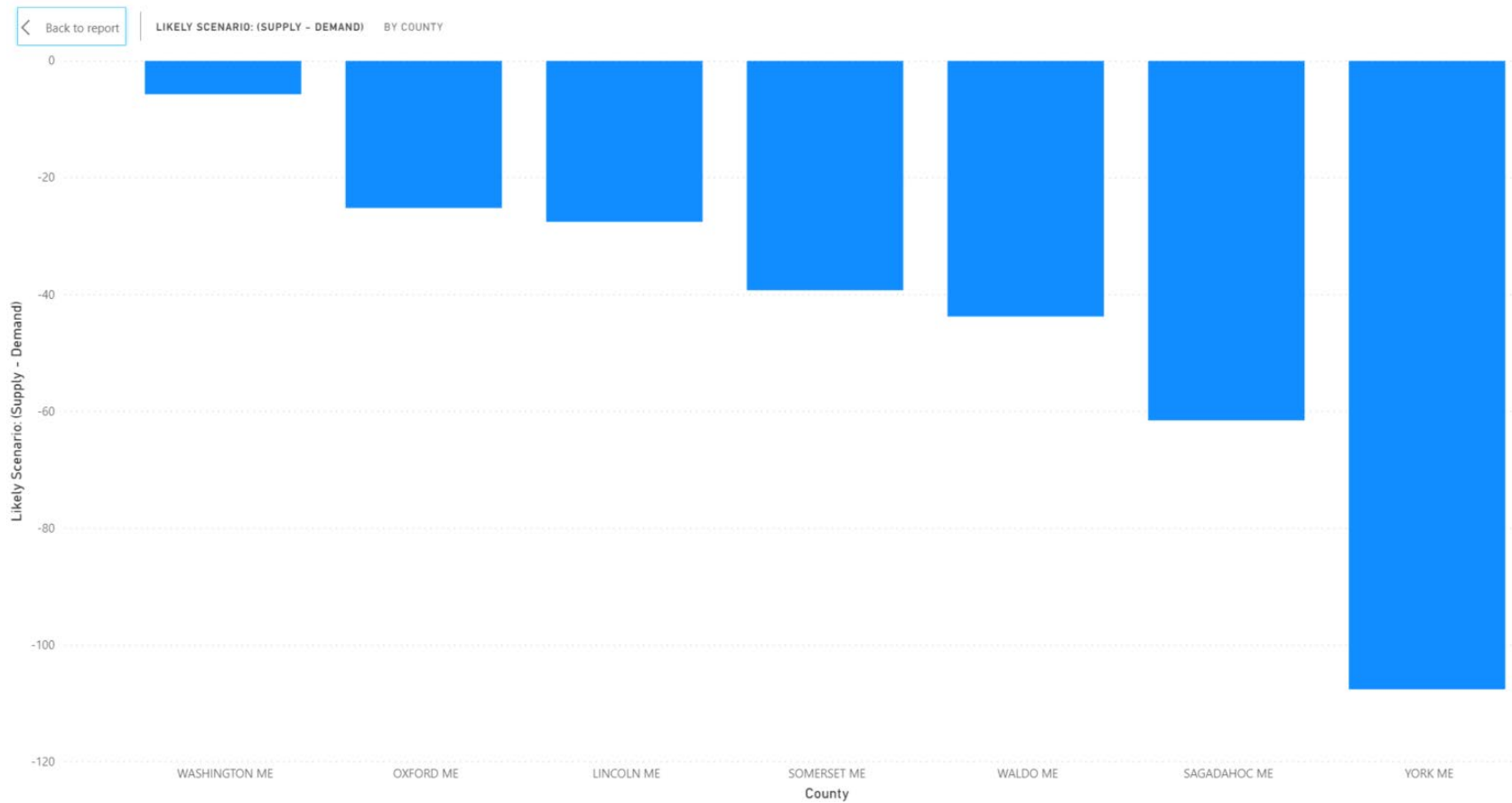


Fig 5: The figure above represents Counties that will run out of beds at peak for the Likely scenario

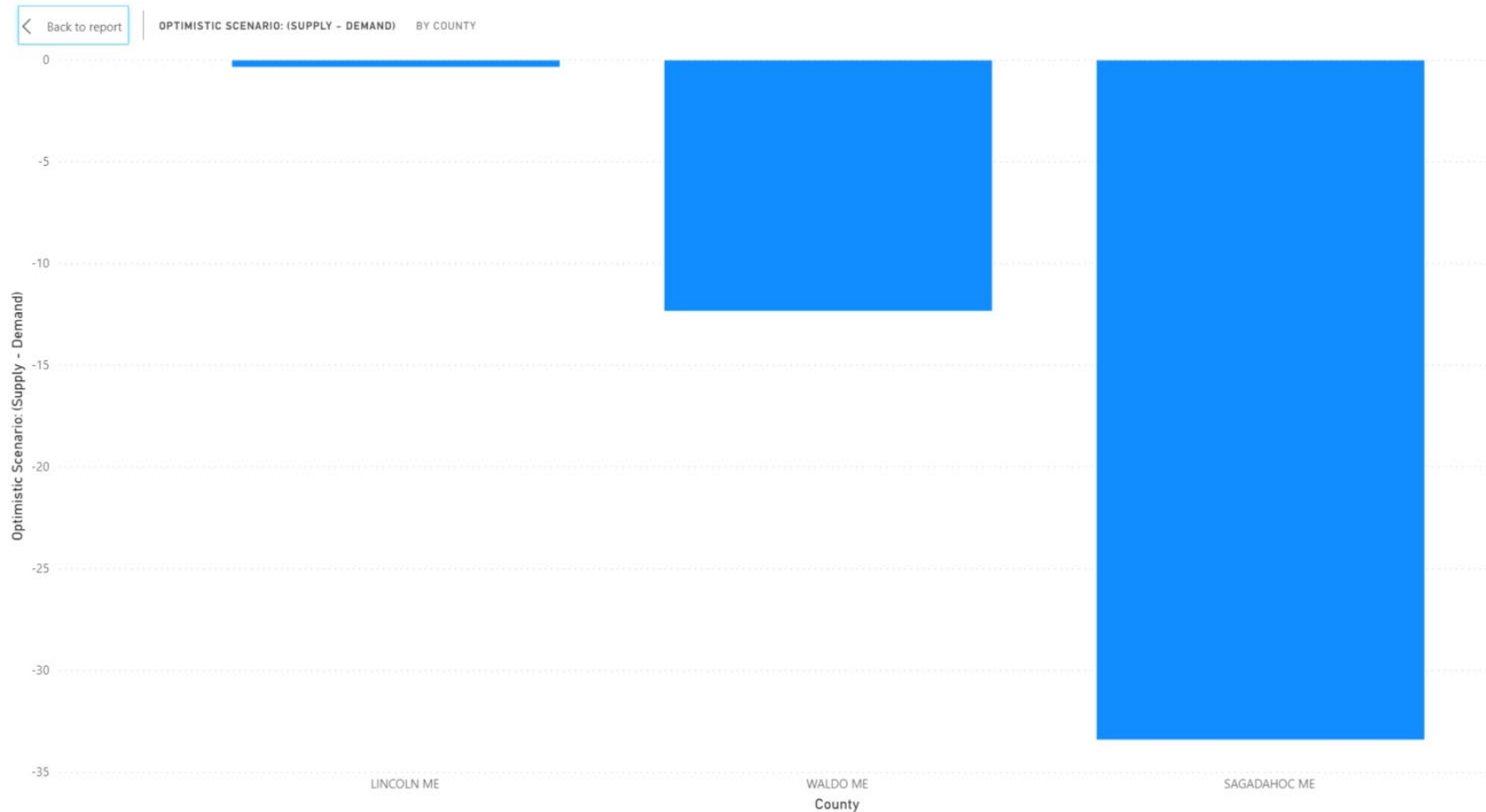


Fig 6: The figure above represents Counties that will run out of beds or do not have a hospital at peak for the Optimistic scenario

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
ANDROSCOGGIN ME	ME	107317	22099	483	11	11	97	102	54	11	11	54	188	54	11	11	107	295	215	16	11			
AROOSTOOK ME	ME	68840	18492	240	7	7	62	65	34	7	7	34	120	34	7	7	69	189	138	10	7			
CUMBERLAND ME	ME	289173	61124	1184	29	29	260	275	145	29	29	145	506	145	29	29	289	795	578	43	29			
FRANKLIN ME	ME	30177	7719	65	3	3	27	29	15	3	3	15	53	15	3	3	30	83	60	5	3			x
HANCOCK ME	ME	54468	15397	114	5	5	49	52	27	5	5	27	95	27	5	5	54	150	109	8	5			x
KENNEBEC ME	ME	121289	28660	425	12	12	109	115	61	12	12	61	212	61	12	12	121	334	243	18	12			
KNOX ME	ME	39700	10967	109	4	4	36	38	20	4	4	20	69	20	4	4	40	109	79	6	4			x
LINCOLN ME	ME	34021	11101	32	3	3	31	32	17	3	3	17	60	17	3	3	34	94	68	5	3	x		x
OXFORD ME	ME	57230	14493	75	6	6	52	54	29	6	6	29	100	29	6	6	57	157	114	9	6			x
PENOBSCOT ME	ME	152284	33168	773	15	15	137	145	76	15	15	76	266	76	15	15	152	419	305	23	15			
PISCATAQUIS ME	ME	16960	5309	50	2	2	15	16	8	2	2	8	30	8	2	2	17	47	34	3	2			
SAGadahoc ME	ME	35149	8696	0	4	4	32	33	18	4	4	18	62	18	4	4	35	97	70	5	4	x		x
SOMERSET ME	ME	50994	12654	50	5	5	46	48	25	5	5	25	89	25	5	5	51	140	102	8	5			x
WALDO ME	ME	39280	10291	25	4	4	35	37	20	4	4	20	69	20	4	4	39	108	79	6	4	x		x
WASHINGTON ME	ME	31822	9178	50	3	3	29	30	16	3	3	16	56	16	3	3	32	88	64	5	3			x
YORK ME	ME	201454	47660	245	20	20	181	191	101	20	20	101	353	101	20	20	201	554	403	30	20			x

Table 1: Table with Data showing all three scenarios