

COVID-19 Rhode Island County by County Hospital Bed Demand versus Supply

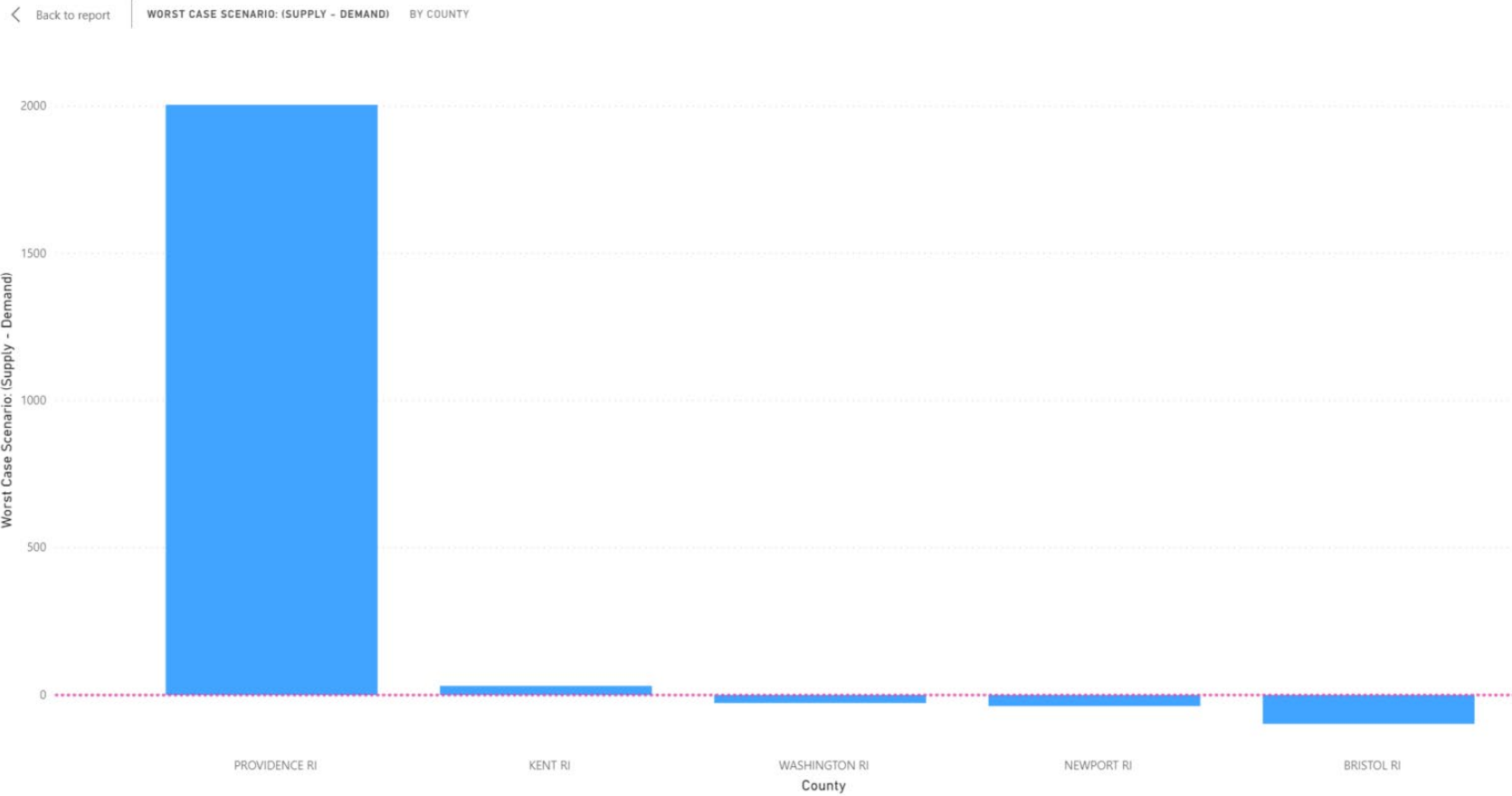


Fig 1: The above figure shows Supply minus Demand at peak using the Imperial-College-COVID19-NPI-modelling-16-03-2020 and the exponential regression model in the article published. All appearing above the red dashed line have capacity even at peak. All Counties that at or falling below the red line are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

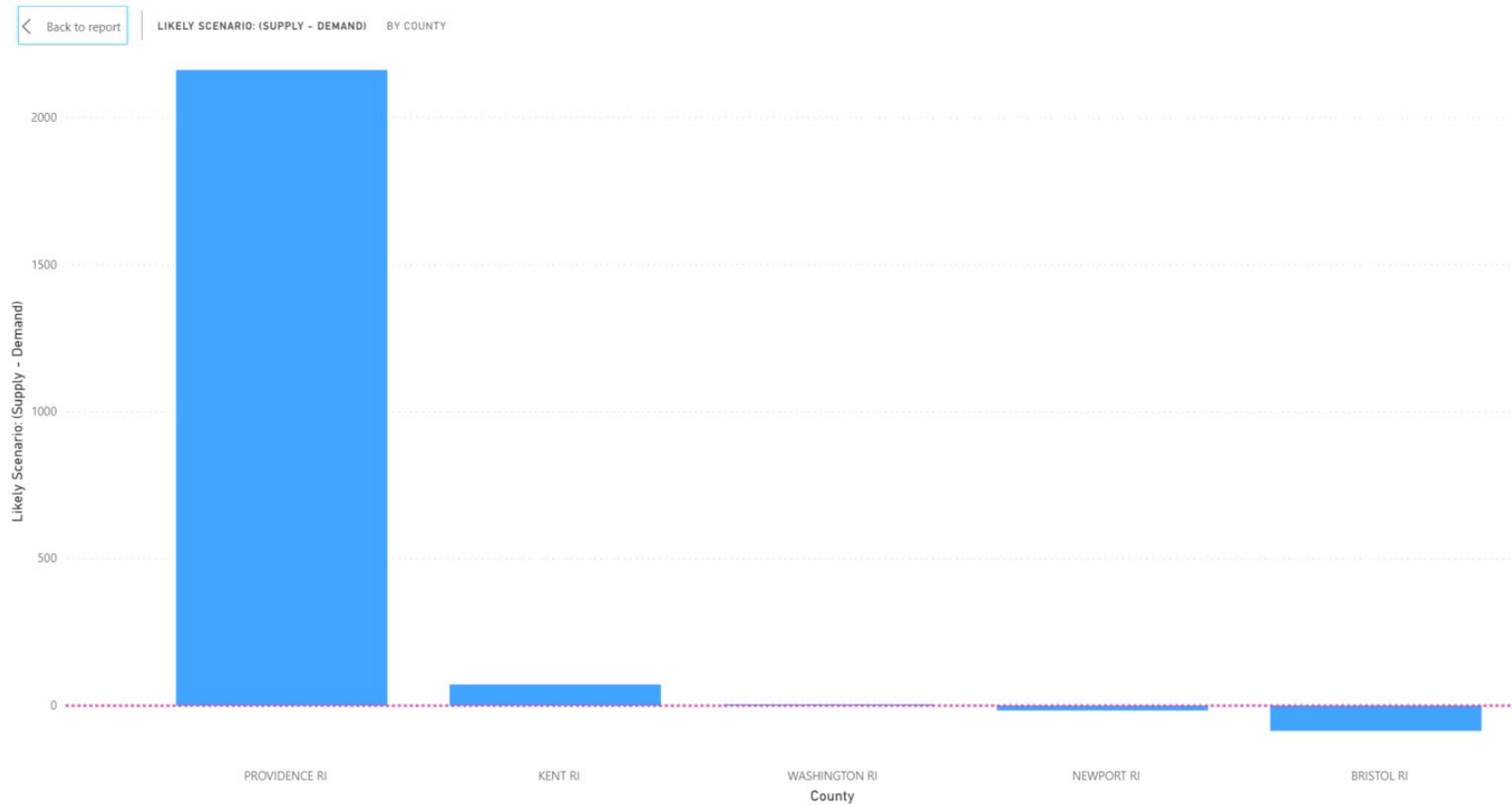


Fig 2: In the more likely scenario where some precautions are taken to flatten the curve, data suggests some Counties will still be unable to meet the needed demand. The peak will hit in early June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made.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

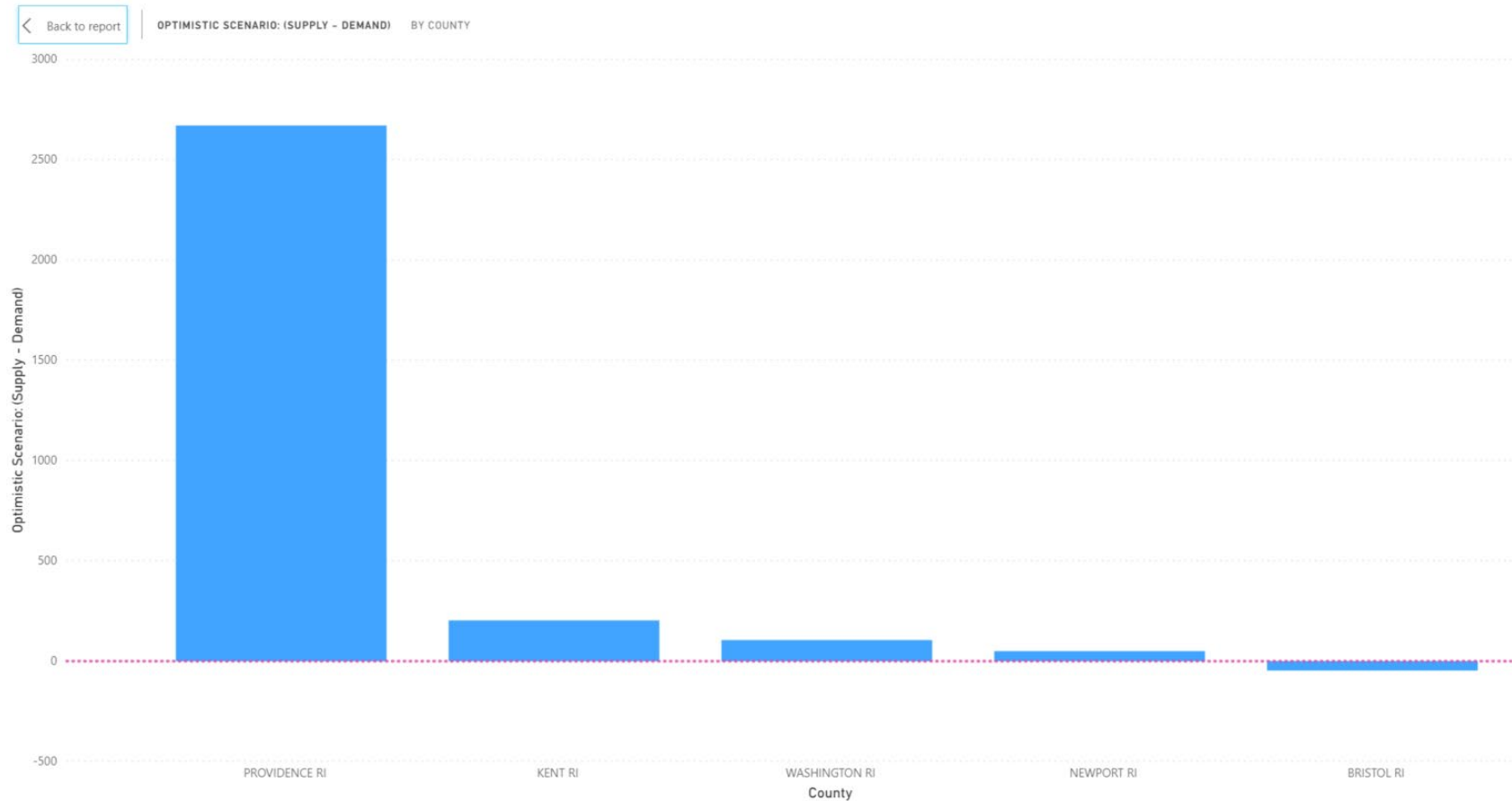


Fig 3: In the scenario where all precautions are taken to flatten the curve, data suggests almost all Counties will be able to meet the needed demand. The peak will hit in June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Several Counties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

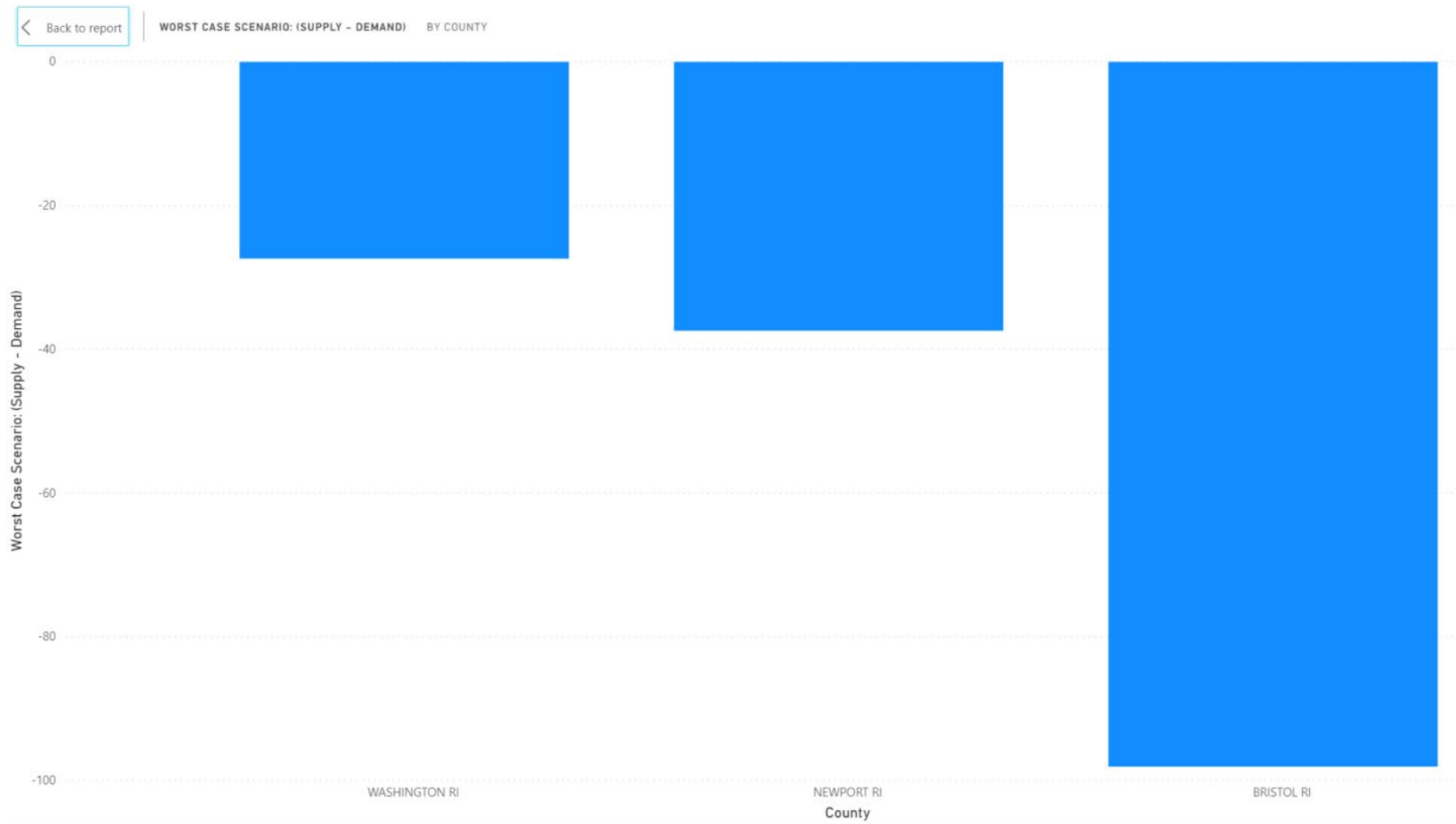


Fig 4: The figure above represents Counties that will run out of beds at peak for the Worst-Case scenario

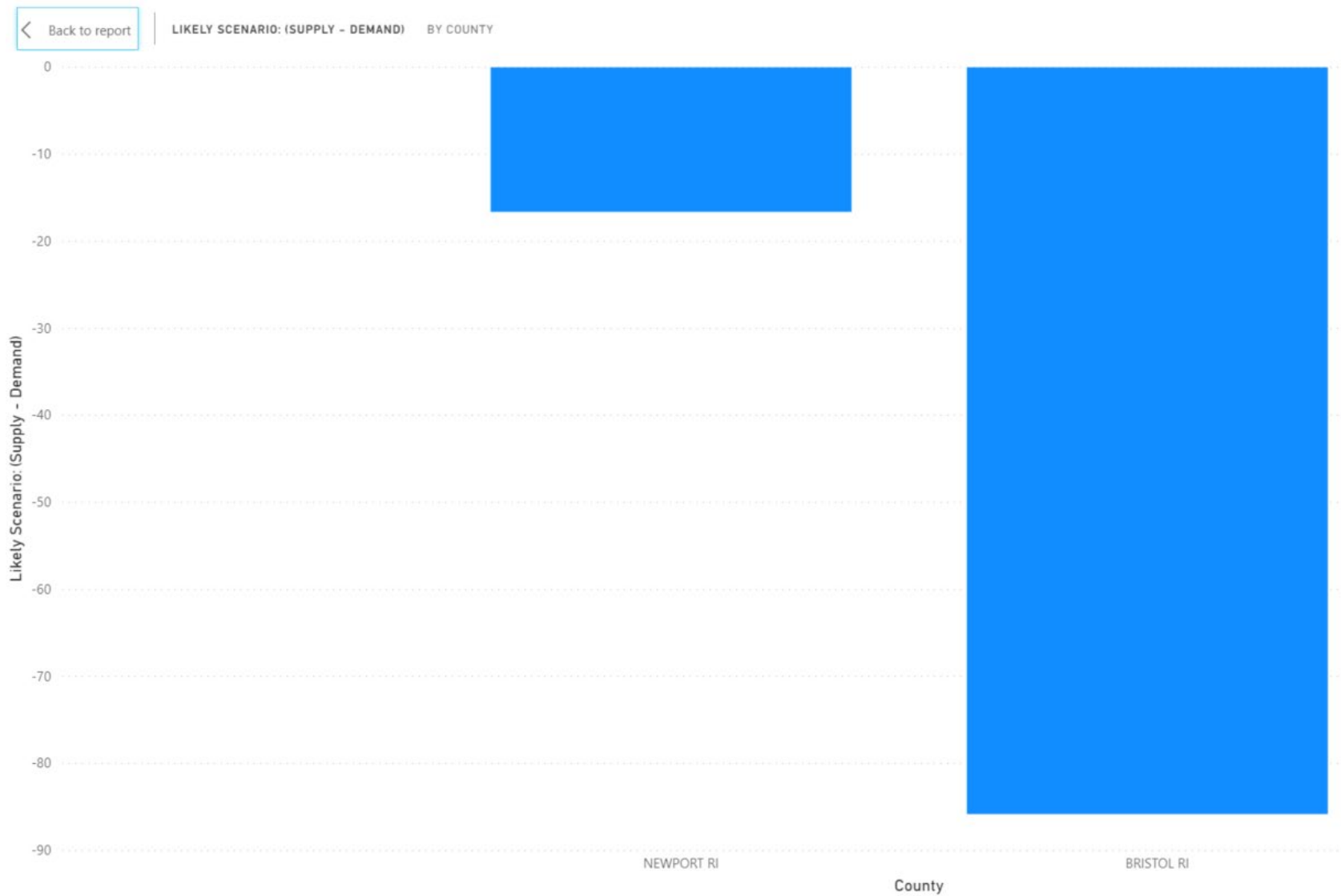


Fig 5: The figure above represents Counties that will run out of beds at peak for the Likely scenario

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OPTIMISTIC SCENARIO: (SUPPLY - DEMAND) BY COUNTY

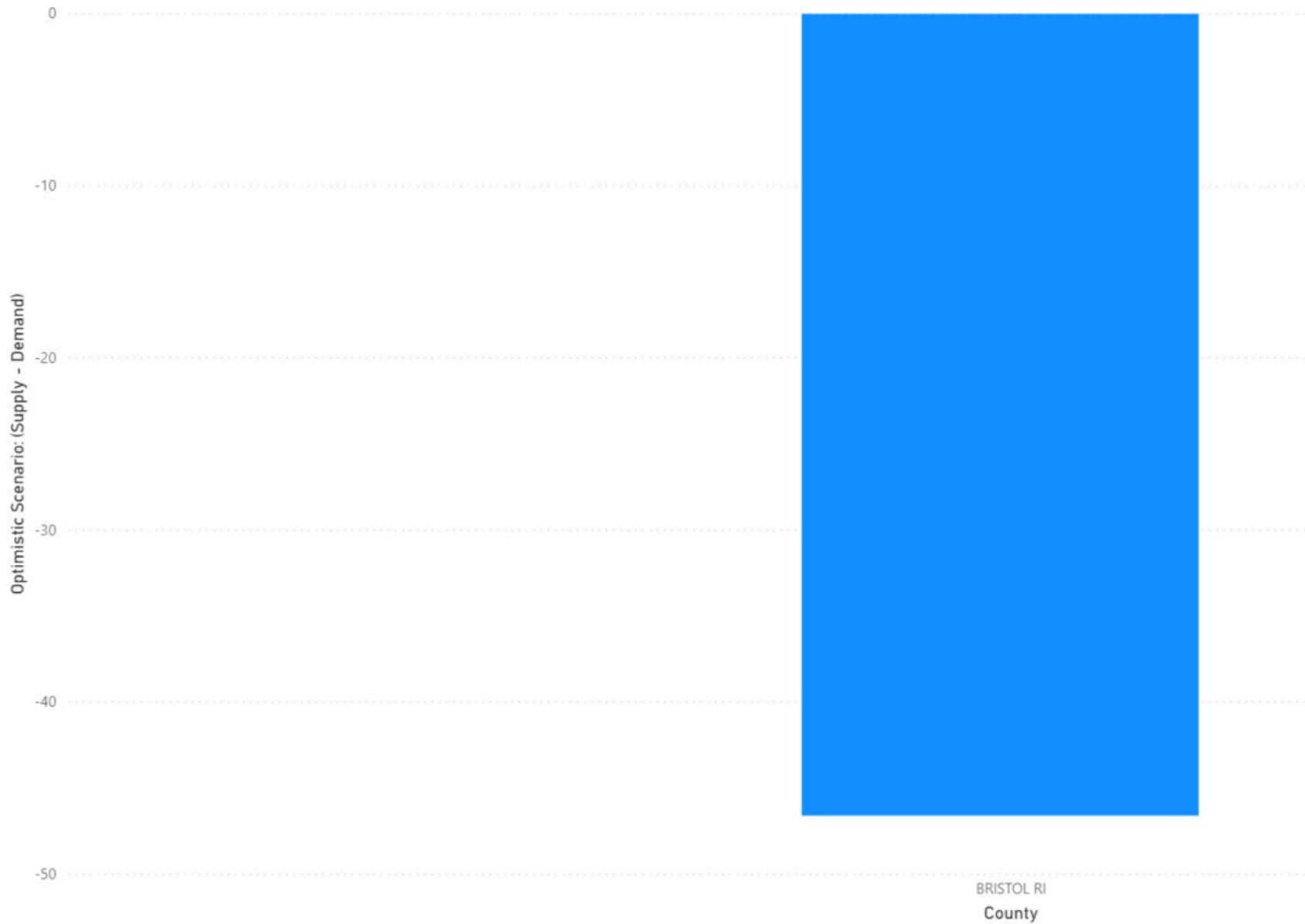


Fig 6: The figure above represents Counties that will run out of beds or do not have a hospital at peak for the Optimistic scenario

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
BRISTOL RI	RI	49028	11060	0	5	5	44	47	25	5	5	25	86	25	5	5	49	135	98	7	5	x	x	x
KENT RI	RI	164012	35331	359	16	16	148	156	82	16	16	82	287	82	16	16	164	451	328	25	16			x
NEWPORT RI	RI	83204	20527	129	8	8	75	79	42	8	8	42	146	42	8	8	83	229	166	12	8		x	x
PROVIDENCE RI	RI	633704	112861	3272	63	63	570	602	317	63	63	317	1109	317	63	63	634	1743	1267	95	63			
WASHINGTON RI	RI	126190	30262	225	13	13	114	120	63	13	13	63	221	63	13	13	126	347	252	19	13			x

Table 1: Table with Data showing all three scenarios