

## COVID-19 Vermont County by County Hospital Bed Demand versus Supply

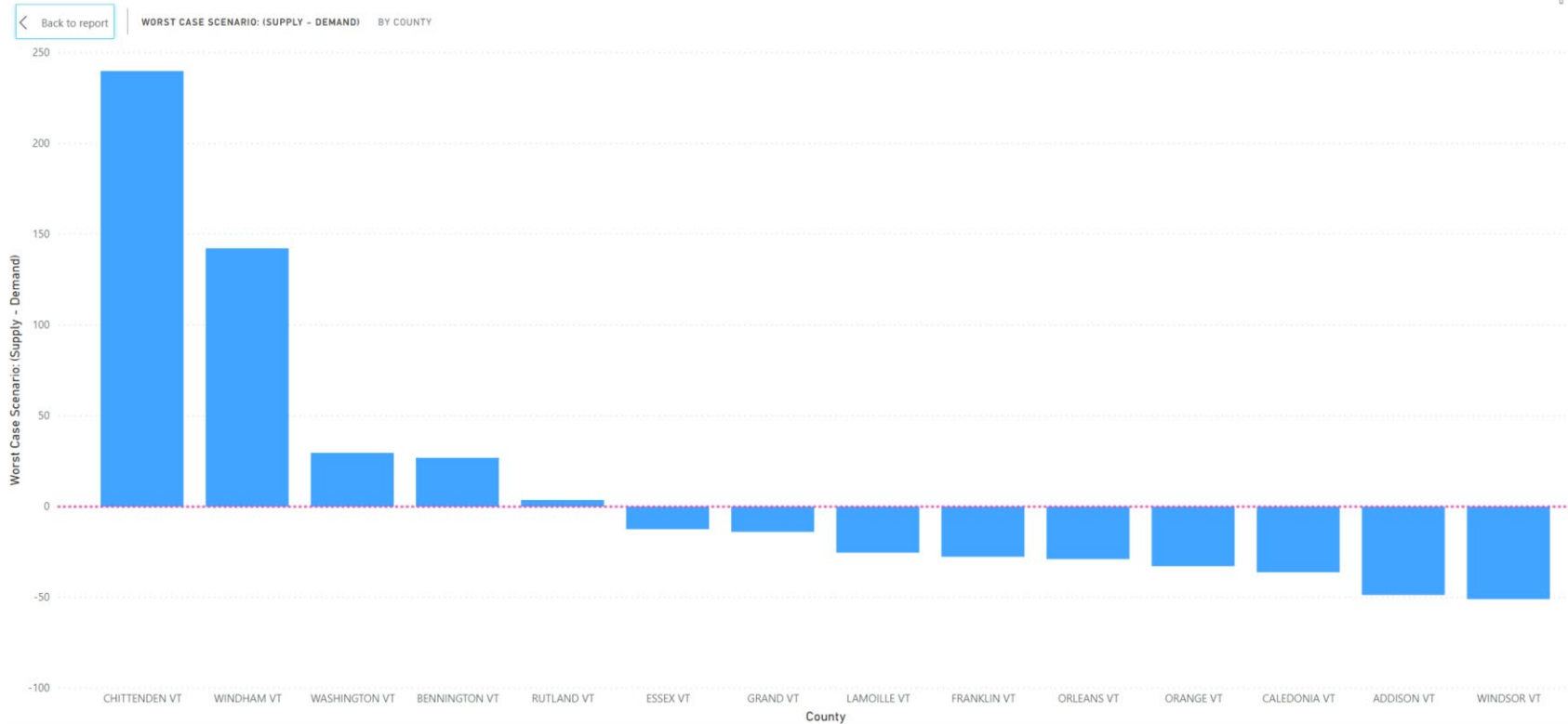


Fig 1: The above figure shows Supply minus Demand at peak using the Imperial-College-COVID19-NPI-modelling-16-03-2020 and the exponential regression model in the article published. All appearing above the red dashed line have capacity even at peak. All Counties that at or falling below the red line are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

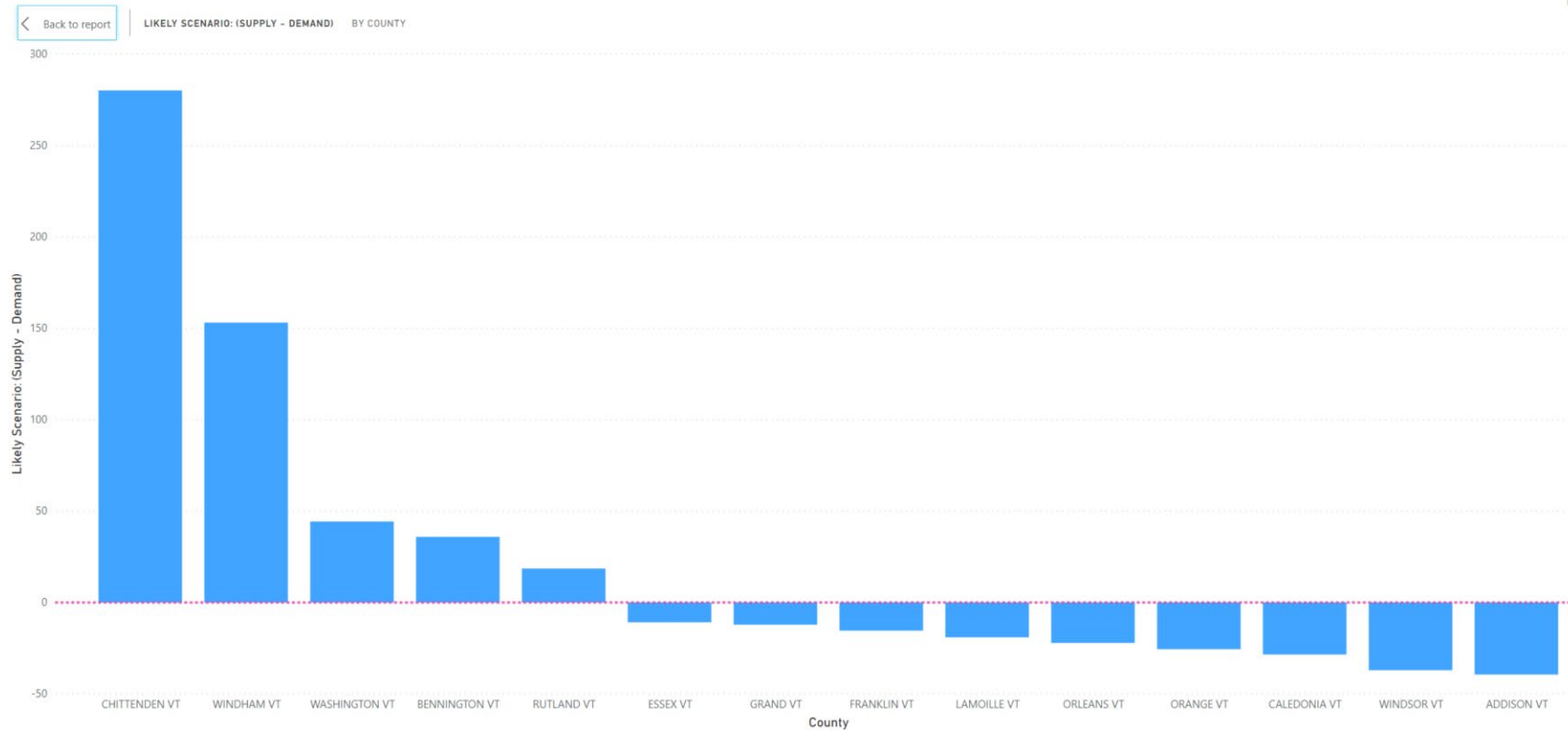


Fig 2: In the more likely scenario where some precautions are taken to flatten the curve, data suggests some Counties will still be unable to meet the needed demand. The peak will hit in early June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made.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

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OPTIMISTIC SCENARIO: (SUPPLY - DEMAND) BY COUNTY

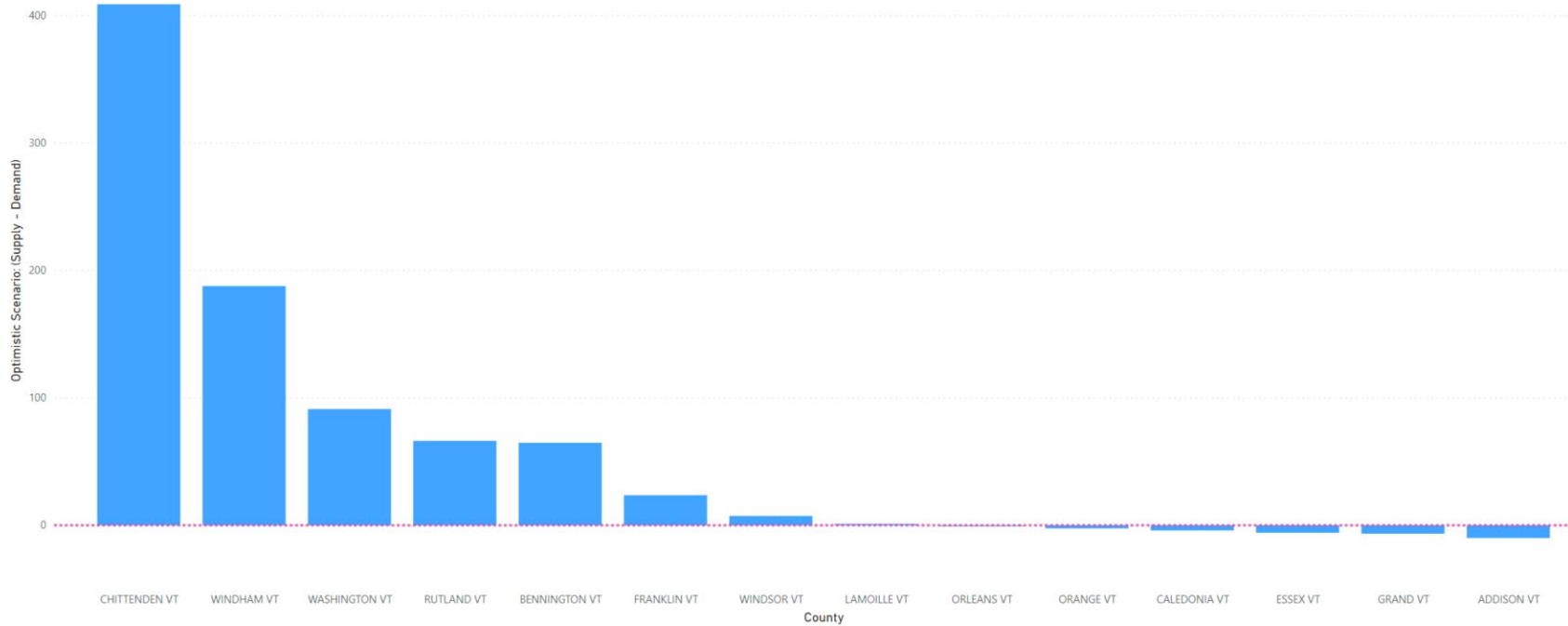


Fig 3: In the scenario where all precautions are taken to flatten the curve, data suggests almost all Counties will be able to meet the needed demand. The peak will hit in June. Planning for servicing counties that either do not have hospitals or overburdened systems should be made. Several Counties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

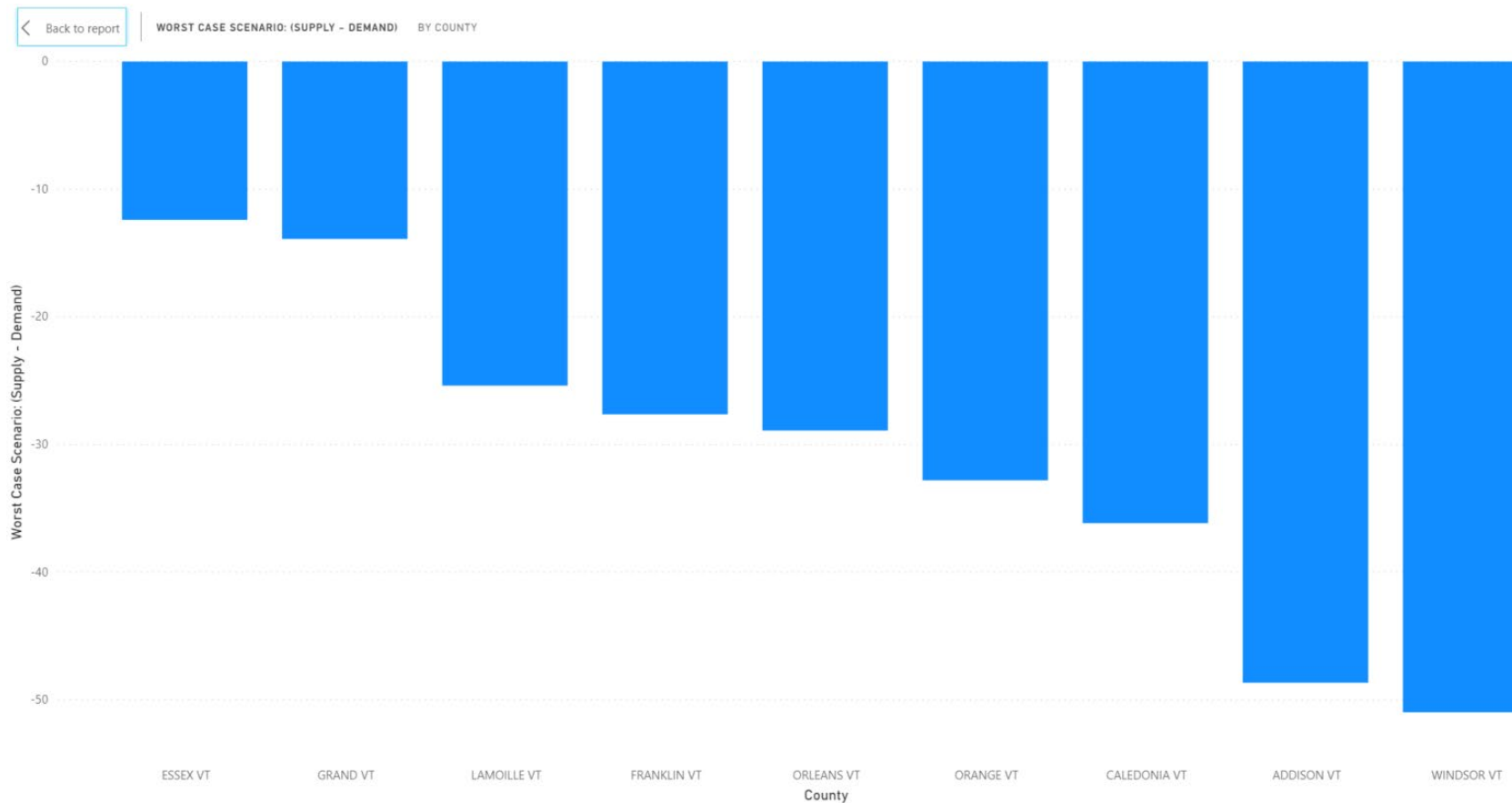


Fig 4: The figure above represents Counties that will run out of beds at peak for the Worst-Case scenario

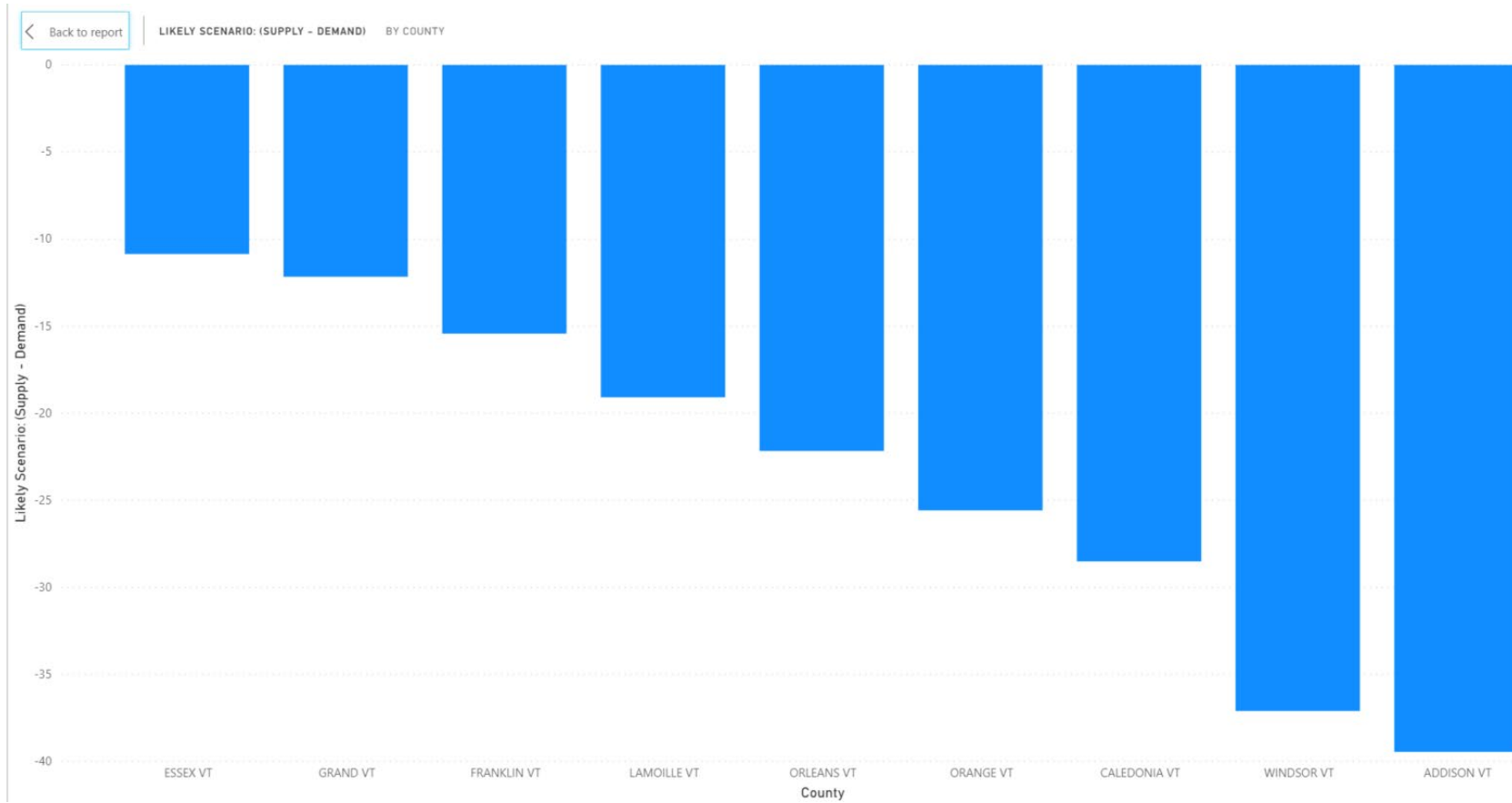


Fig 5: The figure above represents Counties that will run out of beds at peak for the Likely scenario

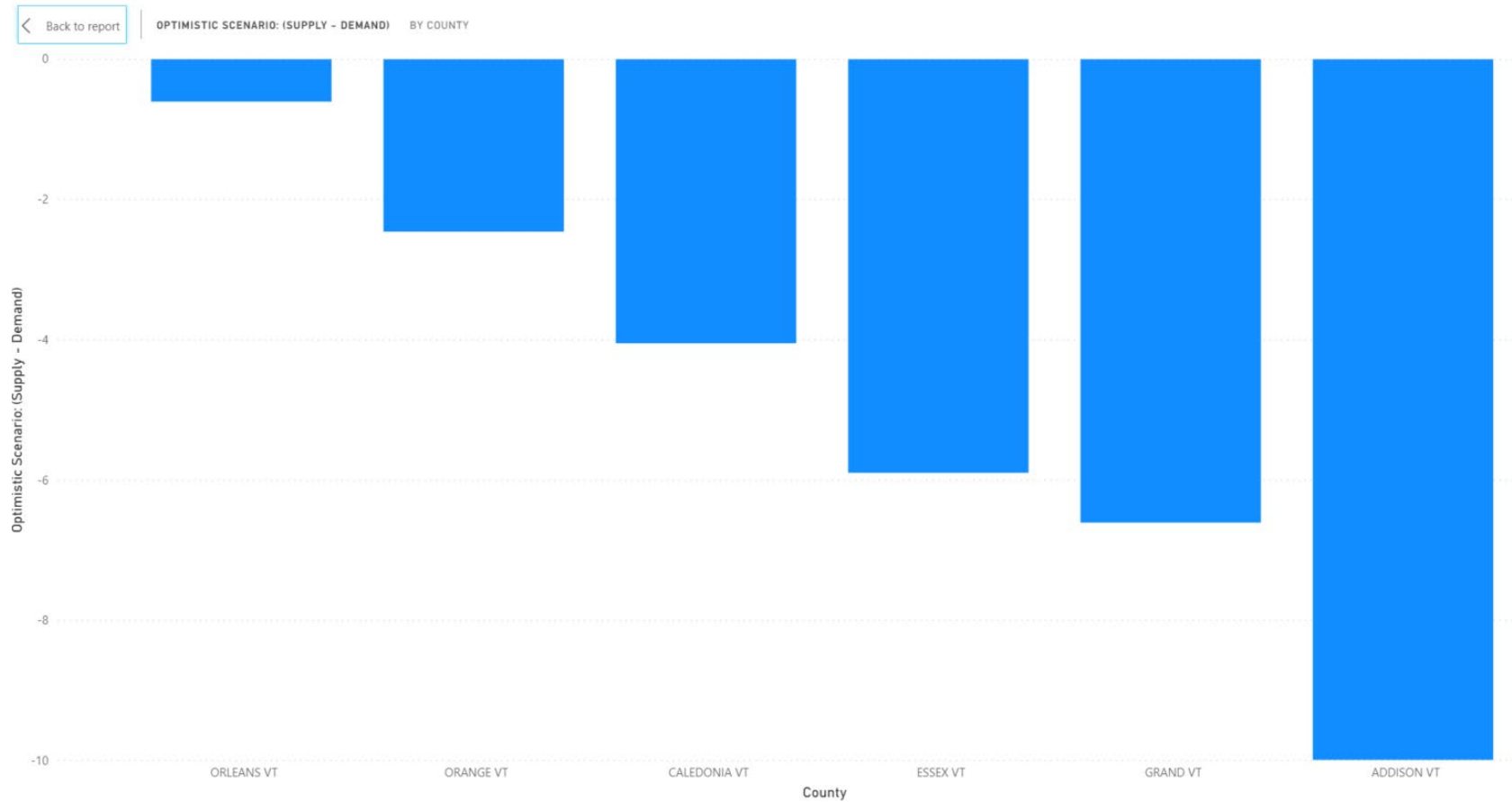


Fig 6: The figure above represents Counties that will run out of beds or do not have a hospital at peak for the Optimistic scenario

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
ADDISON VT	VT	36825	8693	25	4	4	33	35	18	4	4	18	64	18	4	4	37	101	74	6	4	x	x	x
BENNINGTON VT	VT	36054	9229	99	4	4	32	34	18	4	4	18	63	18	4	4	36	99	72	5	4			x
CALEDONIA VT	VT	30576	7625	25	3	3	28	29	15	3	3	15	54	15	3	3	31	84	61	5	3	x	x	x
CHITTENDEN VT	VT	160985	28548	562	16	16	145	153	80	16	16	80	282	80	16	16	161	443	322	24	16			
ESSEX VT	VT	6203	1836	0	1	1	6	6	3	1	1	3	11	3	1	1	6	17	12	1	1	x	x	x
FRANKLIN VT	VT	48816	9460	70	5	5	44	46	24	5	5	24	85	24	5	5	49	134	98	7	5		x	x
GRAND VT	VT	6950	1879	0	1	1	6	7	3	1	1	3	12	3	1	1	7	19	14	1	1	x	x	x
LAMOILLE VT	VT	25191	5216	25	3	3	23	24	13	3	3	13	44	13	3	3	25	69	50	4	3		x	x
ORANGE VT	VT	28901	7422	25	3	3	26	27	14	3	3	14	51	14	3	3	29	79	58	4	3	x	x	x
ORLEANS VT	VT	26951	7246	25	3	3	24	26	13	3	3	13	47	13	3	3	27	74	54	4	3	x	x	x
RUTLAND VT	VT	59676	14942	123	6	6	54	57	30	6	6	30	104	30	6	6	60	164	119	9	6			x
WASHINGTON VT	VT	58691	13937	147	6	6	53	56	29	6	6	29	103	29	6	6	59	161	117	9	6			x
WINDHAM VT	VT	43332	11435	229	4	4	39	41	22	4	4	22	76	22	4	4	43	119	87	6	4			
WINDSOR VT	VT	55485	15272	60	6	6	50	53	28	6	6	28	97	28	6	6	55	153	111	8	6		x	x

Table 1: Table with Data showing all three scenarios