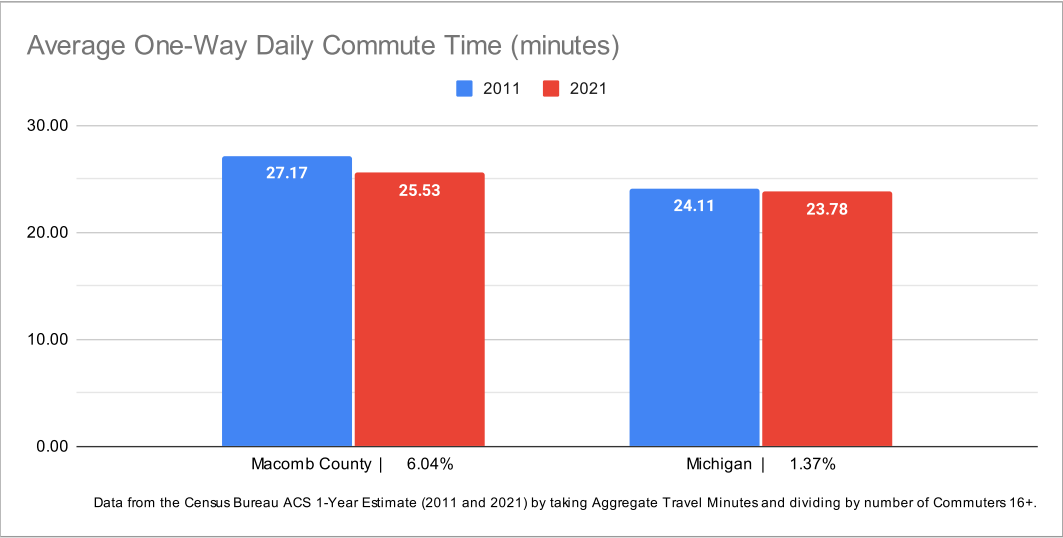


Commutes (2011-2021)

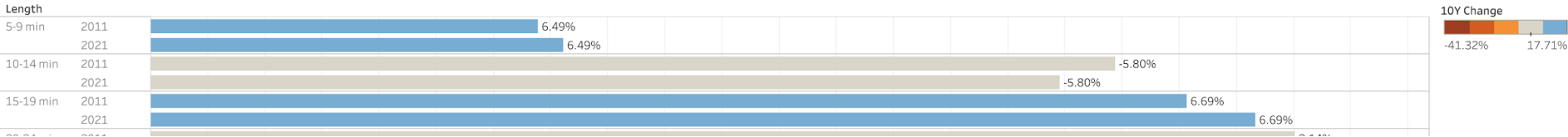
		2011	2021	10Y Change	Measurement
Warren .	1.72%	1,347,250	1,370,385	1.72%	Daily commute minutes
Macomb County	8.37%	9,744,405	8,928,390	-8.37%	Daily commute minutes
Michigan	5.51%	95,244,195	89,994,475	-5.51%	Daily commute minutes
Macomb commuters		358,582	349,667	-2.49%	Commuters
Michigan commuters		3,950,408	3,784,429	-4.20%	Commuters
Macomb County	6.04%	27.17	25.53	-6.04%	Avg commute
Michigan	1.37%	24.11	23.78	-1.37%	Avg commute



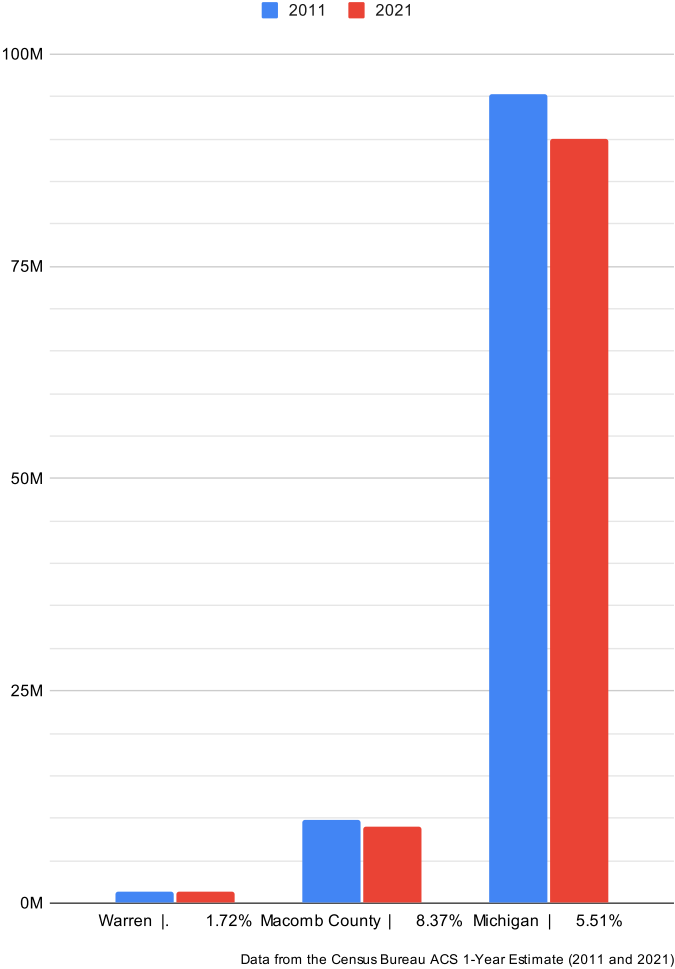
Average commute time went down at the county and state levels: 6% and 1% respectively. In quantitative terms, the average number of minutes dropped in Macomb County from about 27:10 to 25:30 and in Michigan from 24:05 down to 23:45.

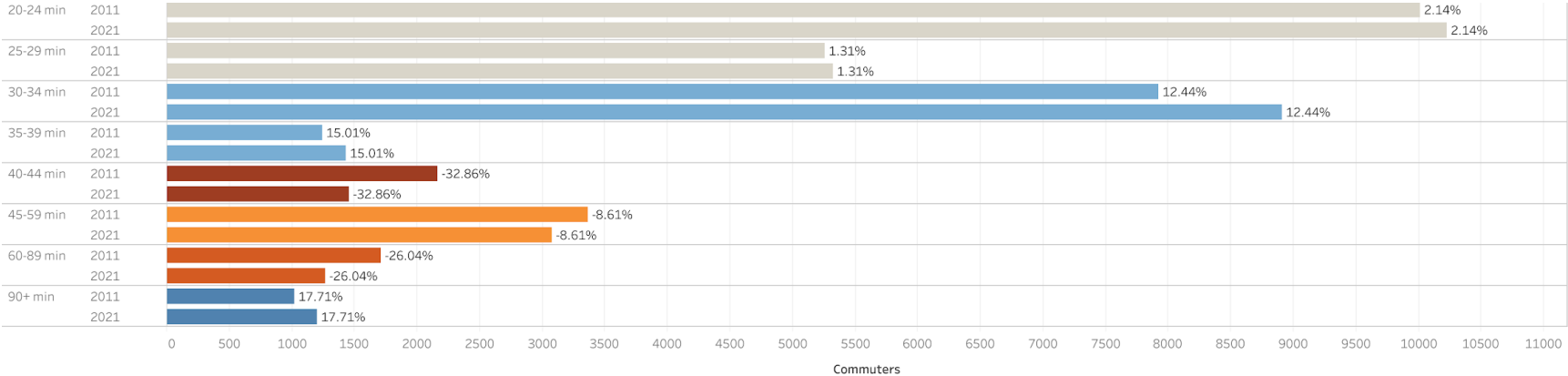
This tracks with total aggregate daily commute minutes dropping for the county and state 8% and almost 6% respectively. However, over the past 10 years, the city of Warren's commute minutes have risen almost 2%.

Commute length in Warren, MI (2011-2021)

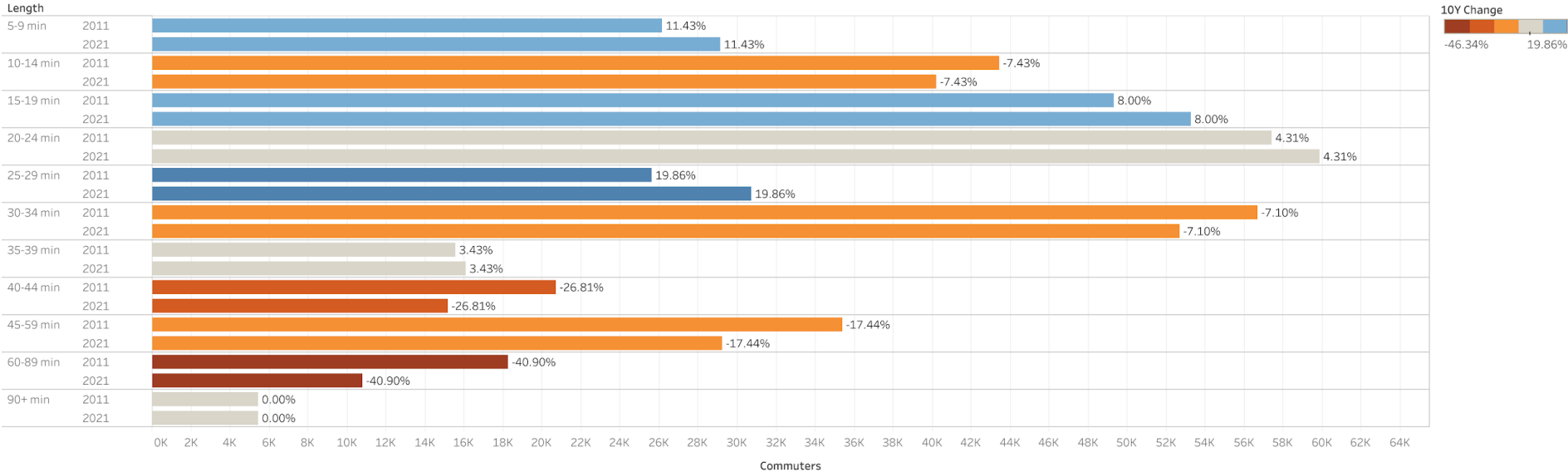


Everyone's Added Commute Time (minutes)

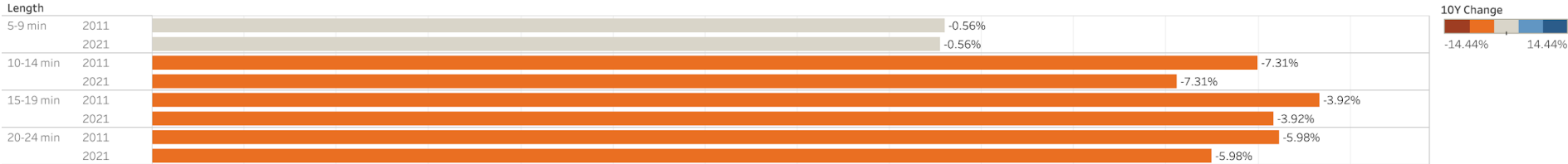


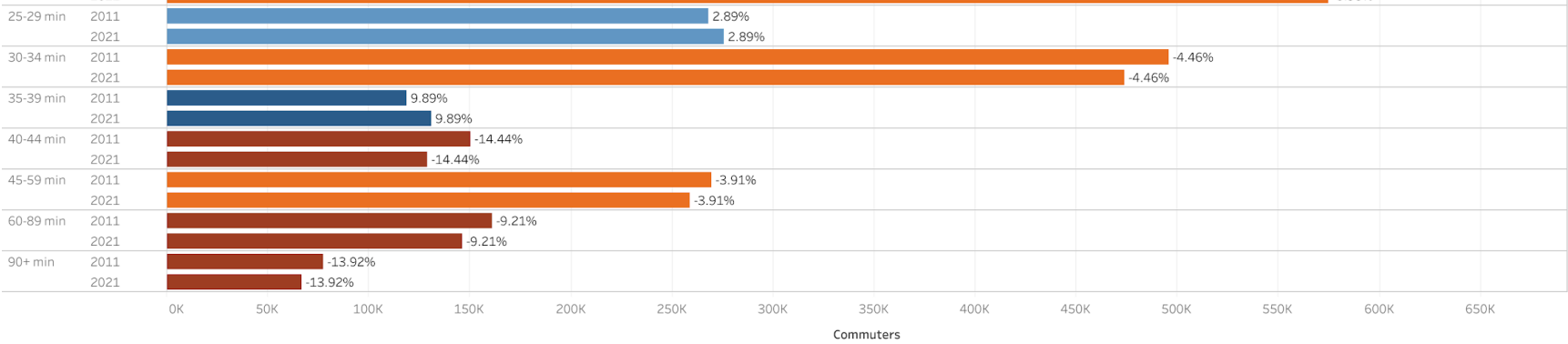


Data from the Census Bureau ACS 1-Year Estimate (2011 and 2021)
Commute length in Macomb County, MI (2011-2021)



Data from the Census Bureau ACS 1-Year Estimate (2011 and 2021)
Commute length in Michigan (2011-2021)





Data from the Census Bureau ACS 1-Year Estimate (2011 and 2021)

In general, longer commute times ranging from 40-44 minutes has dropped across the board 14-33%. It seems also that, although at the state level shorter commutes (24 minutes or less) have decreased, very short commutes (5-9 minutes) have become more common for Macomb County and Warren up 11% and 6%. The most common commutes are 20-24 minutes, followed closely behind by ones 15-19 minutes.

Subcategory	Warren (2011)	Warren (2021)	10 Year Change (Warren)	Macomb (2011)	Macomb (2021)	10 Year Change (Macomb)	Michigan (2011)	Michigan (2021)	10 Year Change (Michigan)
commute_05_9_mins	3,390	3,610	6.49%	26,133	29,119	11.43%	429,946	427,521	-0.56%
commute_10_14_mins	8,445	7,955	-5.80%	43,442	40,213	-7.43%	599,759	555,936	-7.31%
commute_15_19_mins	9,064	9,670	6.69%	49,296	53,239	8.00%	633,300	608,448	-3.92%
commute_20_24_mins	10,011	10,225	2.14%	57,379	59,851	4.31%	611,323	574,745	-5.98%
commute_25_29_mins	5,254	5,323	1.31%	25,639	30,730	19.86%	267,823	275,558	2.89%
commute_30_34_mins	7,921	8,906	12.44%	56,685	52,659	-7.10%	495,986	473,850	-4.46%
commute_35_39_mins	1,246	1,433	15.01%	15,559	16,093	3.43%	118,970	130,734	9.89%
commute_40_44_mins	2,167	1,455	-32.86%	20,719	15,165	-26.81%	150,496	128,768	-14.44%
commute_45_59_mins	3,367	3,077	-8.61%	35,405	29,230	-17.44%	269,302	258,767	-3.91%
commute_60_89_mins	1,713	1,267	-26.04%	18,271	10,798	-40.90%	160,976	146,155	-9.21%
commute_90_more_mins	1,022	1,203	17.71%	5,461	5,461	0.00%	77,526	66,734	-13.92%