

Table 5. Annual Congestion Cost

Urban Area	Annual Congestion Cost per Commuter (2022 \$)				Annual Congestion Cost (2022 \$millions)			
	2022		2021		2022		2021	
	Dollars	Rank	Dollars	Rank	Dollars	Rank	Dollars	Rank
Very Large Average (15 areas)	2,028		1,780		7,736		6,548	
Los Angeles-Long Beach-Anaheim CA	3,214	1	2,839	1	24,103	1	20,720	1
San Francisco-Oakland CA	3,148	2	2,743	2	6,492	5	5,451	7
New York-Newark NY-NJ-CT	2,239	3	1,937	3	20,387	2	17,196	2
Atlanta GA	1,953	4	1,702	4	5,982	7	5,007	8
San Diego CA	1,927	5	1,615	5	3,718	15	3,020	15
Washington DC-VA-MD	1,903	6	1,470	12	4,854	9	3,568	12
Seattle WA	1,874	7	1,404	15	4,475	12	3,198	13
Miami FL	1,852	8	1,492	10	8,127	4	6,393	4
Chicago IL-IN	1,675	12	1,545	7	8,264	3	7,428	3
Boston MA-NH-RI	1,664	13	1,474	11	4,303	13	3,665	11
Houston TX	1,645	14	1,564	6	6,204	6	5,625	5
Philadelphia PA-NJ-DE-MD	1,528	18	1,521	9	4,653	11	4,449	9
Dallas-Fort Worth-Arlington TX	1,523	19	1,543	8	5,785	8	5,585	6
Phoenix-Mesa AZ	1,441	22	1,180	24	4,766	10	3,768	10
Detroit MI	1,277	32	1,058	36	3,932	14	3,146	14

Very Large Urban Areas — Over 3 million population.

Large Urban Areas — Over 1 million and less than 3 million population.

Medium Urban Areas — Over 500,000 and less than 1 million population.

Small Urban Areas — Less than 500,000 population.

Yearly Delay per Auto Commuter — Extra travel time during the year divided by the number of people who commute in private vehicles in the urban area.

Travel Time Index — The ratio of travel time in the peak period to the travel time at free-flow conditions. A value of 1.30 indicates a 20-minute free-flow trip takes 26 minutes in the peak period.

Excess Fuel Consumed — Increased fuel consumption due to travel in congested conditions rather than free-flow conditions.

Congestion Cost — The value of 2022 travel time delay (estimated at \$23.12 per hour of person travel and \$64.68 per hour of truck time) and excess fuel consumption (estimated using the state average cost per gallon for gasoline and diesel).

Note: Please do not place too much emphasis on small differences in the rankings. There may be little difference in congestion between areas ranked (for example) 6th and 12th. The actual measure values should also be examined. The best congestion comparisons are made between similar urban areas.

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Urban Area	Annual Congestion Cost per Commuter (2022 \$)				Annual Congestion Cost (2022 \$millions)			
	2022		2021		2022		2021	
	Dollars	Rank	Dollars	Rank	Dollars	Rank	Dollars	Rank
Large Average (32 areas)	1,241		1,084		1,579		1,333	
San Jose CA	1,790	9	1,301	19	2,637	19	1,796	20
Nashville-Davidson TN	1,685	11	1,304	17	1,613	30	1,214	31
Portland OR-WA	1,616	15	1,366	16	2,082	22	1,691	24
Riverside-San Bernardino CA	1,559	16	1,452	13	2,908	16	2,673	16
Austin TX	1,533	17	1,429	14	1,792	27	1,585	27
Denver-Aurora CO	1,454	21	1,301	19	2,881	17	2,486	17
San Juan PR	1,419	24	1,300	21	1,894	25	1,725	23
Sacramento CA	1,403	25	1,188	23	1,972	24	1,593	26
Orlando FL	1,392	26	1,145	26	1,793	26	1,428	28
Columbus OH	1,316	29	1,118	31	1,270	36	1,035	38
Tampa-St. Petersburg FL	1,285	31	1,013	40	2,624	20	2,003	19
Cincinnati OH-KY-IN	1,257	33	1,129	28	1,419	33	1,229	30
Charlotte NC-SC	1,226	34	1,214	22	1,162	38	1,095	36
Jacksonville FL	1,217	35	1,128	29	1,067	42	953	40
Minneapolis-St. Paul MN-WI	1,208	36	993	43	2,701	18	2,133	18
Salt Lake City-West Valley City UT	1,169	37	1,113	32	896	47	811	44
Milwaukee WI	1,163	38	979	46	1,133	41	926	41
Kansas City MO-KS	1,156	39	956	49	1,434	32	1,138	35
St. Louis MO-IL	1,152	40	1,065	35	1,983	23	1,787	21
Baltimore MD	1,145	43	960	47	2,179	21	1,777	22
Cleveland OH	1,125	44	989	44	1,340	34	1,153	34
Las Vegas-Henderson NV	1,103	45	933	52	1,643	29	1,354	29
Pittsburgh PA	1,082	47	1,014	39	1,163	37	1,058	37
San Antonio TX	1,078	48	1,040	38	1,721	28	1,627	25
Indianapolis IN	1,067	49	1,041	37	1,275	35	1,197	32
Oklahoma City OK	1,026	51	937	51	1,159	39	1,033	39
Louisville-Jefferson County KY-IN	1,017	53	926	54	905	46	808	45
Memphis TN-MS-AR	926	61	812	61	906	45	775	47
Providence RI-MA	883	69	811	63	895	48	798	46
Raleigh NC	818	76	627	92	575	58	414	63
Virginia Beach VA	798	78	729	75	918	44	818	43
Richmond VA	746	84	708	82	582	57	528	54

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Medium Average (33 areas)	975		843		545		459	
Honolulu HI	1,741	10	1,125	30	1,051	43	673	49
Baton Rouge LA	1,458	20	1,302	18	755	51	670	50
New Orleans LA	1,422	23	1,145	26	1,504	31	1,184	33
Bridgeport-Stamford CT-NY	1,346	27	1,087	34	1,147	40	900	42
Charleston-North Charleston SC	1,324	28	1,090	33	665	52	532	53
Birmingham AL	1,291	30	1,157	25	780	49	681	48
Hartford CT	1,150	42	933	52	769	50	598	51
Colorado Springs CO	1,101	46	994	42	548	61	480	59
Albuquerque NM	1,065	50	938	50	508	64	432	62
New Haven CT	1,021	52	906	55	449	65	386	65
Buffalo NY	1,012	55	982	45	614	54	580	52
Omaha NE-IA	977	57	795	66	600	56	472	60
Toledo OH-MI	944	60	960	47	311	80	312	75
Knoxville TN	926	61	822	60	442	66	381	66
Fresno CA	917	63	746	72	518	63	413	64
El Paso TX-NM	903	64	812	61	564	60	501	57
McAllen TX	886	67	719	79	572	59	458	61
Rochester NY	841	72	788	67	384	71	352	69
Grand Rapids MI	822	74	690	83	436	67	356	68
Albany-Schenectady NY	819	75	773	68	375	73	343	71
Columbia SC	799	77	715	81	385	70	337	72
Akron OH	789	79	773	68	382	72	370	67
Worcester MA-CT	789	79	809	64	291	85	289	79
Tulsa OK	756	82	734	74	547	62	521	56
Bakersfield CA	748	83	643	88	297	84	252	84
Cape Coral FL	742	85	614	95	405	68	325	73
Tucson AZ	741	86	629	91	634	53	527	55
Springfield MA-CT	739	87	649	87	346	76	297	77
Allentown PA-NJ	714	90	725	78	359	75	351	70
Dayton OH	707	91	636	90	367	74	323	74
Sarasota-Bradenton FL	651	95	514	99	389	69	301	76
Provo-Orem UT	649	96	584	97	301	83	256	83
Wichita KS	641	97	05	96	306	82	285	80

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Small Average (21 areas)	796		712		227		198	
Anchorage AK	1,151	41	998	41	149	97	126	97
Little Rock AR	1,014	54	826	58	607	55	488	58
Stockton CA	993	56	881	56	330	77	285	80
Spokane WA	977	57	797	65	308	81	241	85
Eugene OR	945	59	755	71	204	92	161	93
Laredo TX	901	65	831	57	240	87	220	88
Oxnard CA	892	66	825	59	177	95	159	95
Salem OR	886	67	743	73	180	94	147	96
Madison WI	859	70	718	80	328	78	263	82
Boulder CO	856	71	679	84	103	100	79	101
Jackson MS	833	73	771	70	317	79	290	78
Corpus Christi TX	777	81	726	77	225	88	209	89
Greensboro NC	736	88	660	86	207	91	180	91
Boise ID	729	89	664	85	268	86	236	86
Beaumont TX	707	91	638	89	103	100	93	100
Pensacola FL-AL	689	93	728	76	217	89	226	87
Brownsville TX	663	94	616	94	123	99	113	99
Poughkeepsie-Newburgh NY-NJ	638	98	617	93	208	90	199	90
Indio-Cathedral City CA	574	99	560	98	166	96	160	94
Winston-Salem NC	523	100	508	100	185	93	176	92
Lancaster-Palmdale CA	471	101	436	101	131	98	116	98
101 Area Average	1,561		1,366		1,875		1,586	
Remaining Areas Average	520		505		88		84	
All 494 Area Average	1,259		1,114		453		391	

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