

Table 5. Annual Congestion Cost

Urban Area	Annual Congestion Cost per 2019 Commuter (2020 \$)				Annual Congestion Cost (2020 \$millions)			
	2020		2019		2020		2019	
	Dollars	Rank	Dollars	Rank	Dollars	Rank	Dollars	Rank
Very Large Average (15 areas)	948		1,880		3,431		6,784	
New York-Newark, NY-NJ-CT	1,322	1	2,159	4	11,177	1	18,263	2
San Francisco-Oakland, CA	1,301	2	2,886	1	2,604	7	5,775	5
Los Angeles-Long Beach-Anaheim, CA	1,142	3	2,866	2	8,230	2	20,656	1
Boston, MA-NH-RI	1,103	4	1,805	5	2,732	6	4,470	10
Houston, TX	1,097	5	1,635	9	3,795	4	5,656	6
Washington, DC-VA-MD	905	7	2,191	3	2,263	11	5,480	7
Atlanta, GA	869	8	1,775	6	2,477	9	5,057	8
Chicago, IL-IN	852	9	1,587	12	3,969	3	7,391	3
Dallas-Fort Worth-Arlington, TX	848	10	1,335	18	3,051	5	4,806	9
Philadelphia, PA-NJ-DE-MD	789	12	1,292	19	2,274	10	3,723	12
Detroit, MI	710	16	1,167	30	2,082	12	3,421	14
Seattle, WA	685	22	1,612	10	1,556	13	3,664	13
San Diego, CA	665	24	1,681	8	1,219	16	3,082	15
Miami, FL	608	35	1,606	11	2,491	8	6,580	4
Phoenix-Mesa, AZ	489	65	1,179	29	1,545	14	3,728	11

Very Large Urban Areas—over 3 million population.

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

Large Urban Areas—over 1 million and less than 3 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 2020 travel time delay (estimated at \$20.17 per hour of person travel and \$55.24 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.

Table 5. Annual Congestion Cost, Continued

Urban Area	Annual Congestion Cost per 2019 Commuter (2020 \$)				Annual Congestion Cost (2020 \$millions)			
	2020		2019		2020		2019	
	Dollars	Rank	Dollars	Rank	Dollars	Rank	Dollars	Rank
Large Average (32 areas)	586		1,127		701		1,345	
Austin, TX	945	6	1,520	14	1,077	18	1,732	22
Sacramento, CA	800	11	1,164	31	1,057	20	1,539	27
St. Louis, MO-IL	719	14	986	44	1,175	17	1,610	25
San Jose, CA	712	15	1,731	7	1,066	19	2,591	16
Kansas City, MO-KS	694	17	961	47	812	27	1,124	34
San Juan, PR	694	17	1,355	17	868	25	1,696	24
Portland, OR-WA	690	19	1,424	16	836	26	1,725	23
Cleveland, OH	686	21	1,072	39	760	29	1,187	32
San Antonio, TX	682	23	1,069	40	1,010	22	1,583	26
Nashville-Davidson, TN	659	26	1,465	15	595	33	1,323	30
Oklahoma City, OK	656	27	857	59	685	30	894	39
Columbus, OH	645	29	1,126	34	589	34	1,027	37
Providence, RI-MA	630	30	856	60	584	35	794	45
Minneapolis-St. Paul, MN-WI	620	33	1,119	36	1,322	15	2,384	18
Cincinnati, OH-KY-IN	608	35	1,192	28	637	31	1,248	31
Milwaukee, WI	602	39	931	54	557	39	861	42
Charlotte, NC-SC	585	41	1,271	21	516	41	1,120	35
Pittsburgh, PA	552	47	952	48	561	38	966	38
Baltimore, MD	549	49	1,219	27	993	23	2,203	19
Denver-Aurora, CO	545	50	1,263	24	1,034	21	2,394	17
Salt Lake City-West Valley City, UT	544	52	903	56	392	45	651	49
Riverside-San Bernardino, CA	511	60	1,272	20	872	24	2,171	20
Indianapolis, IN	487	66	941	49	540	40	1,043	36
Richmond, VA	482	67	693	90	353	51	508	57
Orlando, FL	471	69	1,261	25	570	37	1,526	28
Jacksonville, FL	448	72	1,089	38	355	50	863	41
Memphis, TN-MS-AR	427	76	806	73	387	46	730	46
Tampa-St. Petersburg, FL	401	79	1,125	35	767	28	2,154	21
Virginia Beach, VA	399	80	763	82	423	43	809	44
Louisville-Jefferson County, KY-IN	386	82	835	65	319	54	691	48
Las Vegas-Henderson, NV	363	88	997	43	487	42	1,337	29
Raleigh, NC	361	89	832	66	246	61	568	54

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

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Medium Average (33 areas)	502		905		258		467	
Bridgeport-Stamford, CT-NY	782	13	1,103	37	633	32	892	40
El Paso, TX-NM	688	20	965	46	394	44	554	55
Buffalo, NY	649	28	1,056	41	362	49	589	53
Fresno, CA	626	31	832	66	320	53	426	65
Hartford, CT	606	37	976	45	385	47	620	51
Worcester, MA-CT	603	38	849	61	201	73	283	77
New Orleans, LA	597	40	1,225	26	571	36	1,171	33
New Haven, CT	583	42	814	72	243	62	339	72
Colorado Springs CO	582	43	936	53	268	59	431	64
Honolulu, HI	562	45	1,552	13	308	55	850	43
Albany-Schenectady, NY	555	46	781	75	241	64	338	73
Akron, OH	552	47	750	85	253	60	344	71
Rochester, NY	545	50	843	62	230	67	356	70
Birmingham, AL	521	55	1,139	32	291	58	636	50
Charleston-North Charleston, SC	521	55	1,131	33	242	63	525	56
Albuquerque, NM	516	57	1,053	42	231	66	471	61
Baton Rouge, LA	512	59	1,270	22	238	65	591	52
McAllen, TX	506	61	829	68	294	57	482	58
Knoxville, TN	493	63	941	49	209	72	399	66
Springfield, MA-CT	492	64	757	84	214	69	330	74
Tulsa, OK	479	68	692	91	325	52	469	62
Dayton, OH	435	74	666	93	210	71	322	75
Grand Rapids, MI	435	74	771	80	213	70	377	68
Toledo, OH-MI	393	81	779	76	120	85	238	83
Tucson, AZ	381	83	869	58	306	56	697	47
Omaha, NE-IA	377	84	838	64	216	68	479	60
Wichita, KS	377	84	526	98	164	78	230	84
Columbia, SC	370	87	817	71	162	80	359	69
Allentown, PA-NJ	360	90	686	92	169	77	321	76
Cape Coral, FL	337	94	938	51	163	79	455	63
Provo-Orem, UT	309	95	538	97	130	84	227	85
Bakersfield, CA	268	98	589	96	97	91	213	88
Sarasota-Bradenton, FL	247	99	695	89	136	83	384	67

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Small Average (21 areas)	420		703		117		195	
Little Rock, AR	665	24	874	57	365	48	480	59
Stockton, CA	624	32	840	63	185	75	250	82
Corpus Christi, TX	616	34	819	70	161	81	215	87
Anchorage, AK	563	44	1,265	23	69	97	155	93
Beaumont, TX	535	53	779	76	70	96	103	101
Jackson, MS	533	54	773	79	189	74	274	79
Madison, WI	514	58	743	86	183	76	264	80
Brownsville, TX	504	62	762	83	84	92	128	98
Poughkeepsie-Newburgh, NY-NJ	468	70	629	95	139	82	187	89
Greensboro, NC	463	71	642	94	119	86	166	91
Boulder, CO	436	73	905	55	51	101	106	100
Spokane, WA	423	77	937	52	119	86	263	81
Oxnard, CA	416	78	765	81	78	94	143	96
Eugene, OR	371	86	728	87	74	95	145	95
Pensacola, FL-AL	358	91	784	74	104	89	227	85
Laredo, TX	349	92	697	88	84	92	168	90
Boise, ID	341	93	822	69	114	88	275	78
Salem, OR	303	96	503	99	99	90	164	92
Winston-Salem, NC	302	97	775	78	58	99	148	94
Indio-Cathedral City, CA	221	100	485	100	60	98	131	97
Lancaster-Palmdale, CA	216	101	439	101	55	100	111	99
101 Area Average	742		1,441		841		1,627	
Remaining Areas Average	260		497		40		77	
All 494 Area Average	605		1,174		204		384	

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