



# INRIX Global Traffic Scorecard – *Appendices*

INRIX Research  
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## ABOUT INRIX RESEARCH

Launched in 2016, INRIX Research uses INRIX proprietary big data and expertise to make the movement of people and goods more efficient, safer and convenient.

We achieve this by leveraging 500 terabytes of INRIX data from 300 million different sources covering more than 5 million miles of road, combined with our other data sources including global parking, fuel, points of interest, public transport and road weather information. Together, our data provides a rich and fertile picture of urban mobility that enables INRIX Research to produce valuable and actionable insights for policy makers, transport professionals, automakers and drivers.

The INRIX Research team has researchers in Europe and North America, and is comprised of economists, transportation policy specialists and data scientists with backgrounds from academia, think tanks and commercial research and development groups. We have decades of experience in applying rigorous, cutting-edge methodologies to answer salient, real-world problems.

INRIX Research will continue to develop the INRIX Traffic Scorecard as a global, annual benchmark as well as develop new industry-leading metrics and original research reports. In addition to our research outputs, INRIX Research is a free and valuable resource for journalists, researchers and policymakers. We are able to assist with data, analysis and expert commentary on all aspects of urban mobility and smart cities. Spokespeople are available globally for interviews.

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# APPENDICES 1: GLOBAL MAJOR CITY RANKING

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Table A1: Global Major City Ranking

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
1	Los Angeles; CA	USA	North America	104	18.6	12.7%
2	Moscow	Russia	Europe	91	19.9	25.2%
3	New York; NY	USA	North America	89	17.4	12.8%
4	San Francisco; CA	USA	North America	83	14.4	12.8%
5	Bogotá	Colombia	South America	80	17.0	31.8%
6	São Paulo	Brazil	South America	77	15.8	20.8%
7	London	UK	Europe	73	13.9	12.7%
8	Atlanta; GA	USA	North America	71	12.2	10.0%
9	Paris	France	Europe	65	11.8	11.4%
10	Miami; FL	USA	North America	65	11.8	8.7%
11	Bangkok	Thailand	Asia	64	12.6	23.2%
12	Mexico City	Mexico	North America	62	12.9	13.3%
13	Washington; DC	USA	North America	61	10.5	11.3%
14	Dallas; TX	USA	North America	59	9.9	6.6%
15	Istanbul	Turkey	Europe	59	12.2	18.6%
16	Boston; MA	USA	North America	58	10.2	13.4%
17	Chicago; IL	USA	North America	57	10.1	10.2%
18	Krasnodar	Russia	Europe	56	12.0	24.3%
19	Jakarta	Indonesia	Asia	55	11.8	17.3%
20	Seattle; WA	USA	North America	55	9.6	12.6%
21	Zürich	Switzerland	Europe	54	9.5	18.2%
22	Saint Petersburg	Russia	Europe	53	11.3	20.0%
23	Montreal	Canada	North America	52	9.7	14.0%
24	Houston; TX	USA	North America	52	8.5	7.1%
25	Rio de Janeiro	Brazil	South America	51	11.1	15.8%
26	Medellin	Colombia	South America	50	10.0	19.0%
27	Sochi	Russia	Europe	49	11.0	24.4%
28	Cape Town	South Africa	Africa	49	8.0	12.7%
29	Munich	Germany	Europe	49	8.5	14.5%
30	Portland; OR	USA	North America	47	7.7	10.4%
31	Nizhny Novgorod	Russia	Europe	47	10.0	19.7%
32	Austin; TX	USA	North America	47	8.0	11.9%
33	Johannesburg	South Africa	Africa	47	7.3	8.5%
34	Oslo	Norway	Europe	47	7.6	12.7%
35	San Diego; CA	USA	North America	46	7.5	9.8%
36	Cologne	Germany	Europe	46	8.3	13.2%
37	Stuttgart	Germany	Europe	46	8.4	13.6%
38	Toronto	Canada	North America	46	8.4	11.8%
39	Cali	Colombia	South America	44	8.6	17.1%
40	Belo Horizonte	Brazil	South America	42	8.5	16.2%
41	Brussels	Belgium	Europe	41	7.1	12.3%
42	Hamburg	Germany	Europe	41	7.6	13.9%
43	Berlin	Germany	Europe	40	7.5	12.7%
44	Madrid	Spain	Europe	40	7.7	12.7%
45	Minneapolis; MN	USA	North America	40	6.4	6.9%
46	Manchester	UK	Europe	39	6.7	9.9%
47	Frankfurt	Germany	Europe	39	6.5	10.8%
48	Vienna	Austria	Europe	39	7.3	12.9%
49	Stamford; CT	USA	North America	39	7.1	13.8%
50	Riyadh	Saudi Arabia	Asia	39	9.0	15.7%
51	Philadelphia; PA	USA	North America	38	6.8	7.9%
52	San Juan	Puerto Rico	North America	37	6.6	11.4%
53	Tacoma; WA	USA	North America	37	6.4	10.0%
54	Phoenix; AZ	USA	North America	37	6.0	5.7%
55	Lausanne	Switzerland	Europe	36	5.8	11.0%
56	Ruhrgebiet	Germany	Europe	36	6.8	8.7%
57	Baton Rouge; LA	USA	North America	36	6.1	10.6%
58	Hanover	Germany	Europe	36	6.7	11.3%
59	Denver; CO	USA	North America	36	6.4	8.3%
60	Rome	Italy	Europe	35	6.2	11.1%

Table A1: Global Major City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
61	Stockholm	Sweden	Europe	35	5.9	10.7%
62	Birmingham	UK	Europe	34	5.9	8.5%
63	Düsseldorf	Germany	Europe	34	5.7	10.4%
64	Barcelona	Spain	Europe	34	6.6	11.7%
65	Porto Alegre	Brazil	South America	34	6.8	13.7%
66	Detroit; MI	USA	North America	33	5.9	6.1%
67	Guadalajara	Mexico	South America	33	6.8	12.1%
68	Guayaquil	Ecuador	South America	33	6.3	12.2%
69	Concord; CA	USA	North America	33	5.0	8.8%
70	Milan	Italy	Europe	33	5.6	9.0%
71	Berne	Switzerland	Europe	32	5.0	9.4%
72	Orlando; FL	USA	North America	32	6.1	7.1%
73	Edinburgh	UK	Europe	31	5.4	9.8%
74	Dublin	Ireland	Europe	31	5.5	10.2%
75	Monterrey	Mexico	South America	31	6.0	9.4%
76	Vancouver	Canada	North America	30	5.3	8.8%
77	Karlsruhe	Germany	Europe	30	6.1	11.9%
78	Stavanger	Norway	Europe	30	4.6	8.2%
79	Marseille	France	Europe	29	5.0	9.4%
80	Puebla	Mexico	South America	29	6.2	12.2%
81	Dubai	United Arab Emirates	Asia	29	6.4	11.0%
82	Wiesbaden	Germany	Europe	29	4.7	8.2%
83	Luton	UK	Europe	29	5.2	10.7%
84	Jeddah	Saudi Arabia	Asia	29	5.9	12.2%
85	Lyon	France	Europe	29	4.9	8.4%
86	Quito Canton	Ecuador	South America	28	5.9	11.5%
87	Pretoria	South Africa	Africa	28	4.3	7.3%
88	Nuremberg	Germany	Europe	28	5.3	10.6%
89	Sacramento; CA	USA	North America	28	4.8	7.4%
90	Bonn	Germany	Europe	28	4.5	8.0%
91	Bournemouth	UK	Europe	27	5.5	10.8%
92	Hull	UK	Europe	27	4.8	9.4%
93	Tampa; FL	USA	North America	27	4.4	6.9%
94	Bristol	UK	Europe	27	4.7	8.8%
95	San Antonio; TX	USA	North America	27	4.5	6.1%
96	Glasgow	UK	Europe	27	4.2	5.9%
97	Toulon	France	Europe	27	4.8	8.5%
98	Palermo	Italy	Europe	26	5.1	10.7%
99	Baltimore; MD	USA	North America	26	4.7	6.9%
100	New Orleans; LA	USA	North America	26	4.5	7.0%
101	Mannheim	Germany	Europe	26	4.5	7.6%
102	Dublin; CA	USA	North America	26	4.7	9.5%
103	Leeds	UK	Europe	25	4.2	6.6%
104	Gothenburg	Sweden	Europe	24	4.1	7.6%
105	Prague	Czech Republic	Europe	24	4.7	8.8%
106	Lisbon	Portugal	Europe	24	4.4	8.7%
107	Cincinnati; OH	USA	North America	24	4.1	6.6%
108	Copenhagen	Denmark	Europe	24	4.0	7.1%
109	Southampton	UK	Europe	24	4.0	7.8%
110	Coventry	UK	Europe	24	4.0	7.1%
111	Lille	France	Europe	24	3.8	6.6%
112	Wuppertal	Germany	Europe	24	4.1	7.5%
113	Leicester	UK	Europe	24	3.8	7.5%
114	Warrington	UK	Europe	24	4.0	7.1%
115	Charlotte; NC	USA	North America	23	3.9	7.1%
116	Louisville; KY	USA	North America	23	3.9	7.2%
117	Mecca	Saudi Arabia	Asia	23	5.7	13.5%
118	Stoke-on-Trent	UK	Europe	23	3.8	7.2%
119	Norfolk; VA	USA	North America	23	4.1	6.9%
120	Milwaukee; WI	USA	North America	23	4.1	5.7%

## APPENDICES 1: GLOBAL MAJOR CITY RANKING

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Table A1: Global Major City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
121	Newcastle upon Tyne	UK	Europe	23	4.0	6.5%
122	Belfast	UK	Europe	23	4.0	7.6%
123	Bridgeport; CT	USA	North America	23	4.3	9.2%
124	Budapest	Hungary	Europe	23	4.2	7.6%
125	Cardiff	UK	Europe	23	4.3	9.4%
126	Nice	France	Europe	23	4.1	7.5%
127	Columbus; OH	USA	North America	22	3.6	5.7%
128	Turin	Italy	Europe	22	4.0	7.6%
129	St. Louis; MO	USA	North America	22	3.4	4.3%
130	Las Vegas; NV	USA	North America	22	4.4	7.5%
131	Sheffield	UK	Europe	21	3.6	6.4%
132	Florence	Italy	Europe	21	4.0	7.8%
133	Memphis; TN	USA	North America	21	3.9	6.3%
134	The Hague	Netherlands	Europe	21	3.6	6.5%
135	Farnborough	UK	Europe	21	3.4	6.7%
136	Bremen	Germany	Europe	21	4.1	8.1%
137	Brno	Czech Republic	Europe	21	4.1	8.6%
138	Rotterdam	Netherlands	Europe	21	3.7	7.6%
139	Liverpool	UK	Europe	21	4.2	8.4%
140	Jacksonville; FL	USA	North America	21	3.5	5.4%
141	Providence; RI	USA	North America	20	3.6	6.1%
142	Ciudad Juarez	Mexico	South America	20	5.1	10.7%
143	Nottingham	UK	Europe	19	3.2	6.2%
144	Clearwater; FL	USA	North America	19	3.7	6.1%
145	Lawrence; MA	USA	North America	19	3.2	6.4%
146	Cleveland; OH	USA	North America	19	3.1	4.5%
147	Kansas City; MO	USA	North America	19	3.3	4.2%
148	Wilmington; DE	USA	North America	19	3.6	6.3%
149	Hartford; CT	USA	North America	19	3.6	5.9%
150	Genoa	Italy	Europe	18	3.4	7.4%
151	Indianapolis; IN	USA	North America	18	3.1	5.0%
152	Bologna	Italy	Europe	17	3.2	6.7%
153	Edmonton	Canada	North America	17	3.6	6.3%
154	Birmingham; AL	USA	North America	17	2.8	4.9%
155	Swansea	UK	Europe	17	3.0	5.7%
156	Zaragoza	Spain	Europe	16	3.8	9.5%
157	El Paso; TX	USA	North America	16	3.9	7.9%
158	Bari	Italy	Europe	16	3.4	7.6%
159	Calgary	Canada	North America	16	2.8	4.6%
160	Swindon	UK	Europe	16	2.5	4.8%
161	Buffalo; NY	USA	North America	16	2.9	6.2%
162	Preston	UK	Europe	16	2.9	5.7%
163	Naples	Italy	Europe	16	3.1	6.3%
164	Sarasota; FL	USA	North America	16	3.0	5.3%
165	Colorado Springs; CO	USA	North America	16	3.0	6.1%
166	Toluca	Mexico	South America	16	3.4	6.7%
167	Oklahoma City; OK	USA	North America	15	2.8	5.3%
168	Bilbao	Spain	Europe	15	3.0	6.9%
169	Medina	Saudi Arabia	Asia	14	3.6	9.0%
170	Leipzig	Germany	Europe	14	2.7	5.9%
171	Pamplona	Spain	Europe	14	3.1	7.4%
172	Anglet	France	Europe	14	2.6	5.4%
173	Augsburg	Germany	Europe	14	2.5	5.4%
174	Vitrolles	France	Europe	13	2.0	3.7%
175	Mansfield	UK	Europe	13	2.4	5.0%
176	Mulhouse	France	Europe	13	2.3	4.6%
177	Albuquerque; NM	USA	North America	13	2.4	4.7%
178	Dammam	Saudi Arabia	Asia	12	2.8	5.9%
179	Columbia; SC	USA	North America	12	2.2	4.3%
180	Ocean Township; NJ	USA	North America	12	2.8	7.0%

Table A1: Global Major City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
181	Winnipeg; MB	Canada	North America	12	2.2	4.3%
182	Bergamo	Italy	Europe	12	2.1	4.7%
183	Padua	Italy	Europe	11	1.9	3.9%
184	Le Havre	France	Europe	11	2.2	4.5%
185	Dayton; OH	USA	North America	11	2.0	3.6%
186	Sion	Switzerland	Europe	11	1.8	3.9%
187	Richmond; VA	USA	North America	11	2.2	4.0%
188	Singapore	Singapore	Asia	10	1.8	2.5%
189	Tulsa; OK	USA	North America	10	1.8	3.4%
190	Durham; NC	USA	North America	10	1.7	3.7%
191	Tallahassee; FL	USA	North America	9	1.9	4.3%
192	Busto Arsizio	Italy	Europe	9	1.7	3.5%
193	Fresno; CA	USA	North America	9	1.8	3.9%
194	Noyelles-sous-Lens	France	Europe	9	1.6	3.1%
195	Ostrava	Czech Republic	Europe	9	1.9	4.3%
196	Brescia	Italy	Europe	8	1.7	4.2%
197	Shreveport; LA	USA	North America	8	1.5	3.0%
198	Augusta; GA	USA	North America	7	1.4	2.9%
199	Avignon	France	Europe	7	1.2	2.4%
200	Spartanburg; SC	USA	North America	6	1.3	3.1%
201	Almazora	Spain	Europe	6	1.2	2.7%
202	Wichita; KS	USA	North America	6	1.3	2.7%
203	Mestre	Italy	Europe	6	1.1	2.4%
204	Tarragona	Spain	Europe	5	1.1	2.5%
205	Greensboro; NC	USA	North America	4	0.9	2.2%



# APPENDICES 2: GLOBAL ALL CITIES RANKING

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Table A2: Global All City Ranking

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
1	Los Angeles; CA	USA	North America	104	18.6	12.7%
2	Moscow	Russia	Europe	91	19.9	25.2%
3	New York; NY	USA	North America	89	17.4	12.8%
4	San Francisco; CA	USA	North America	83	14.4	12.8%
5	Bogotá	Colombia	South America	80	17.0	31.8%
6	São Paulo	Brazil	South America	77	15.8	20.8%
7	London	UK	Europe	73	13.9	12.7%
8	Magnitogorsk	Russia	Europe	71	17.5	41.8%
9	Atlanta; GA	USA	North America	71	12.2	10.0%
10	Paris	France	Europe	65	11.8	11.4%
11	Miami; FL	USA	North America	65	11.8	8.7%
12	Bangkok	Thailand	Asia	64	12.6	23.2%
13	Caracas	Venezuela	South America	63	11.8	21.1%
14	Mexico City	Mexico	North America	62	12.9	13.3%
15	Washington; DC	USA	North America	61	10.5	11.3%
16	Dallas; TX	USA	North America	59	9.9	6.6%
17	Istanbul	Turkey	Europe	59	12.2	18.6%
18	Boston; MA	USA	North America	58	10.2	13.4%
19	Chicago; IL	USA	North America	57	10.1	10.2%
20	Kansk	Russia	Europe	56	13.9	34.3%
21	Krasnodar	Russia	Europe	56	12.0	24.3%
22	Jakarta	Indonesia	Asia	55	11.8	17.3%
23	Seattle; WA	USA	North America	55	9.6	12.6%
24	Belem	Brazil	South America	55	12.0	26.0%
25	Zürich	Switzerland	Europe	54	9.5	18.2%
26	Saint Petersburg	Russia	Europe	53	11.3	20.0%
27	Montreal	Canada	North America	52	9.7	14.0%
28	Houston; TX	USA	North America	52	8.5	7.1%
29	Rio de Janeiro	Brazil	South America	51	11.1	15.8%
30	Medellin	Colombia	South America	50	10.0	19.0%
31	Geneva	Switzerland	Europe	49	8.1	15.4%
32	Sochi	Russia	Europe	49	11.0	24.4%
33	Cape Town	South Africa	Africa	49	8.0	12.7%
34	Novosibirsk	Russia	Europe	49	10.5	20.6%
35	Ufa	Russia	Europe	49	10.9	23.7%
36	Munich	Germany	Europe	49	8.5	14.5%
37	Yekaterinberg	Russia	Europe	48	10.2	21.4%
38	Adler	Russia	Europe	48	10.9	24.2%
39	São José	Brazil	South America	48	9.8	21.4%
40	Portland; OR	USA	North America	47	7.7	10.4%
41	Nizhny Novgorod	Russia	Europe	47	10.0	19.7%
42	Austin; TX	USA	North America	47	8.0	11.9%
43	Saratov	Russia	Europe	47	10.5	20.9%
44	Johannesburg	South Africa	Africa	47	7.3	8.5%
45	Oslo	Norway	Europe	47	7.6	12.7%
46	Heilbronn	Germany	Europe	46	9.3	17.9%
47	San Diego; CA	USA	North America	46	7.5	9.8%
48	Cheboksary	Russia	Europe	46	10.5	23.7%
49	Cologne	Germany	Europe	46	8.3	13.2%
50	Stuttgart	Germany	Europe	46	8.4	13.6%
51	Makhachkala	Russia	Europe	46	10.5	23.3%
52	Salvador	Brazil	South America	46	8.8	17.5%
53	Toronto	Canada	North America	46	8.4	11.8%
54	Rostov-on-Don	Russia	Europe	46	10.0	19.8%
55	Basel	Switzerland	Europe	45	7.1	13.2%
56	Vladivostok	Russia	Europe	45	9.5	19.1%
57	Bykovo	Russia	Europe	45	10.3	22.6%
58	Anapa	Russia	Europe	45	10.6	24.4%
59	Bucaramanga	Colombia	South America	44	8.3	17.4%
60	Cali	Colombia	South America	44	8.6	17.1%



Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
61	Galway	Ireland	Europe	44	8.3	17.0%
62	Chelyabinsk	Russia	Europe	43	10.3	22.8%
63	Tver	Russia	Europe	43	10.0	22.9%
64	Novorossiysk	Russia	Europe	43	9.7	21.7%
65	Bandung	Indonesia	Asia	43	9.2	20.1%
66	Pasto	Colombia	South America	43	9.8	22.1%
67	Rzhev	Russia	Europe	42	10.0	22.9%
68	Khasavyurt	Russia	Europe	42	10.6	26.0%
69	Belo Horizonte	Brazil	South America	42	8.5	16.2%
70	Tomsk	Russia	Europe	41	9.2	19.8%
71	Brussels	Belgium	Europe	41	7.1	12.3%
72	Volgograd	Russia	Europe	41	9.3	20.5%
73	Tuapse	Russia	Europe	41	8.9	19.9%
74	Hamburg	Germany	Europe	41	7.6	13.9%
75	Tyumen	Russia	Europe	40	8.8	18.6%
76	Villavicencio	Colombia	South America	40	8.7	18.9%
77	Ryazan	Russia	Europe	40	8.1	16.7%
78	Berlin	Germany	Europe	40	7.5	12.7%
79	Voronezh	Russia	Europe	40	8.3	17.6%
80	Madrid	Spain	Europe	40	7.7	12.7%
81	Minneapolis; MN	USA	North America	40	6.4	6.9%
82	Manchester	UK	Europe	39	6.7	9.9%
83	Frankfurt	Germany	Europe	39	6.5	10.8%
84	Vienna	Austria	Europe	39	7.3	12.9%
85	Malang	Indonesia	Asia	39	9.1	20.4%
86	Yogyakarta	Indonesia	Asia	39	9.1	20.9%
87	Stamford; CT	USA	North America	39	7.1	13.8%
88	Riyadh	Saudi Arabia	Asia	39	9.0	15.7%
89	Kirov	Russia	Europe	39	8.4	18.7%
90	Krasnoyarsk	Russia	Europe	39	8.2	16.8%
91	Zelenograd	Russia	Europe	38	8.6	19.7%
92	Bryansk	Russia	Europe	38	8.4	17.9%
93	Philadelphia; PA	USA	North America	38	6.8	7.9%
94	San Juan	Puerto Rico	North America	37	6.6	11.4%
95	Tacoma; WA	USA	North America	37	6.4	10.0%
96	Phoenix; AZ	USA	North America	37	6.0	5.7%
97	Antwerp	Belgium	Europe	37	6.7	12.9%
98	Barranquilla	Colombia	South America	37	7.2	15.3%
99	Cartagena	Spain	Europe	37	8.1	19.3%
100	Medan	Indonesia	Asia	37	8.0	17.4%
101	Lausanne	Switzerland	Europe	36	5.8	11.0%
102	Maastricht	Netherlands	Europe	36	7.1	13.8%
103	Ruhrgebiet	Germany	Europe	36	6.8	8.7%
104	Baton Rouge; LA	USA	North America	36	6.1	10.6%
105	Hanover	Germany	Europe	36	6.7	11.3%
106	Recife	Brazil	South America	36	6.9	13.4%
107	Denver; CO	USA	North America	36	6.4	8.3%
108	Orenburg	Russia	Europe	36	7.7	17.2%
109	Lugano	Switzerland	Europe	36	5.9	11.7%
110	Santa Barbara; CA	USA	North America	36	6.2	12.7%
111	Kemerovo	Russia	Europe	35	8.0	17.9%
112	Aberdeen	UK	Europe	35	6.3	12.3%
113	Salzburg	Austria	Europe	35	6.8	14.0%
114	Rome	Italy	Europe	35	6.2	11.1%
115	Warsaw	Poland	Europe	35	6.4	12.4%
116	Stockholm	Sweden	Europe	35	5.9	10.7%
117	Pereira	Colombia	South America	34	6.8	14.2%
118	Esenyurt	Turkey	Europe	34	6.7	13.3%
119	Birmingham	UK	Europe	34	5.9	8.5%
120	Vyborg	Russia	Europe	34	8.0	18.9%

## APPENDICES 2: GLOBAL ALL CITY RANKING

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Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
121	Kiin	Russia	Europe	34	7.8	18.1%
122	Düsseldorf	Germany	Europe	34	5.7	10.4%
123	Würzburg	Germany	Europe	34	7.0	13.8%
124	Barcelona	Spain	Europe	34	6.6	11.7%
125	Porto Alegre	Brazil	South America	34	6.8	13.7%
126	Nashville; TN	USA	North America	34	5.8	11.4%
127	Krakow	Poland	Europe	34	6.6	13.7%
128	Detroit; MI	USA	North America	33	5.9	6.1%
129	Curitiba	Brazil	South America	33	7.0	15.1%
130	Guadalajara	Mexico	South America	33	6.8	12.1%
131	Pittsburgh; PA	USA	North America	33	5.6	11.0%
132	Lat Krabang	Thailand	Asia	33	6.6	14.7%
133	Guayaquil	Ecuador	South America	33	6.3	12.2%
134	Luxemburg City	Luxembourg	Europe	33	5.0	8.8%
135	Concord; CA	USA	North America	33	5.0	8.8%
136	Feira de Santana	Brazil	South America	33	7.3	16.6%
137	Milan	Italy	Europe	33	5.6	9.0%
138	Yaroslavl	Russia	Europe	33	7.2	15.6%
139	Perm	Russia	Europe	33	7.0	15.4%
140	Maracaibo	Venezuela	South America	32	6.5	13.3%
141	Surabaya	Indonesia	Asia	32	6.8	14.5%
142	Columbia; MD	USA	North America	32	5.2	9.7%
143	Semarang	Indonesia	Asia	32	6.9	15.2%
144	St John's	Canada	North America	32	6.0	12.1%
145	Berne	Switzerland	Europe	32	5.0	9.4%
146	Lucerne	Switzerland	Europe	32	5.4	11.0%
147	Matamoros	Mexico	South America	32	7.8	17.7%
148	Orlando; FL	USA	North America	32	6.1	7.1%
149	Edinburgh	UK	Europe	31	5.4	9.8%
150	Ottawa	Canada	North America	31	5.5	10.9%
151	Dublin	Ireland	Europe	31	5.5	10.2%
152	Sindelfingen	Germany	Europe	31	5.3	10.2%
153	Omsk	Russia	Europe	31	7.0	15.8%
154	Donets'k	Russia	Europe	31	7.6	17.6%
155	Maykop	Russia	Europe	31	7.3	17.5%
156	Monterrey	Mexico	South America	31	6.0	9.4%
157	Vancouver	Canada	North America	30	5.3	8.8%
158	Durban	South Africa	Africa	30	5.1	9.3%
159	Karlsruhe	Germany	Europe	30	6.1	11.9%
160	Tula	Mexico	South America	30	6.9	15.4%
161	Saransk	Russia	Europe	30	7.2	17.0%
162	Bratislava	Slovakia	Europe	30	5.2	10.7%
163	Stavanger	Norway	Europe	30	4.6	8.2%
164	Yelets	Russia	Europe	30	7.4	17.5%
165	Quebec	Canada	North America	29	5.1	9.9%
166	Volgodonsk	Russia	Europe	29	7.3	17.8%
167	Kurgan	Russia	Europe	29	6.7	15.2%
168	Marseille	France	Europe	29	5.0	9.4%
169	Guildford	UK	Europe	29	4.5	8.6%
170	Bordeaux	France	Europe	29	5.0	8.8%
171	Rybinsk	Russia	Europe	29	7.2	17.9%
172	Puebla	Mexico	South America	29	6.2	12.2%
173	Reynosa	Mexico	South America	29	7.1	16.2%
174	Dubai	United Arab Emirates	Asia	29	6.4	11.0%
175	Chernogorsk	Russia	Europe	29	7.1	17.4%
176	Mendrisio	Switzerland	Europe	29	5.3	11.2%
177	Wiesbaden	Germany	Europe	29	4.7	8.2%
178	Penza	Russia	Europe	29	6.4	14.6%
179	Luton	UK	Europe	29	5.2	10.7%
180	Jeddah	Saudi Arabia	Asia	29	5.9	12.2%

Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
181	Timashyovsk	Russia	Europe	29	6.6	16.3%
182	Teresina	Brazil	South America	29	6.3	13.4%
183	Astrakhan	Russia	Europe	29	8.5	23.4%
184	Lipetsk	Russia	Europe	29	6.2	13.3%
185	Bursa	Turkey	Europe	29	5.8	11.5%
186	Lyon	France	Europe	29	4.9	8.4%
187	Kazan	Russia	Europe	28	6.0	12.5%
188	Quito Canton	Ecuador	South America	28	5.9	11.5%
189	São Luis	Brazil	South America	28	6.0	12.7%
190	Ulyanovsk	Russia	Europe	28	6.5	14.3%
191	Pretoria	South Africa	Africa	28	4.3	7.3%
192	Berdk	Russia	Europe	28	6.4	14.7%
193	Nuremberg	Germany	Europe	28	5.3	10.6%
194	Balneário Camboriú	Brazil	South America	28	6.2	14.8%
195	Sacramento; CA	USA	North America	28	4.8	7.4%
196	Pforzheim	Germany	Europe	28	5.7	11.6%
197	Bonn	Germany	Europe	28	4.5	8.0%
198	Freiburg	Germany	Europe	27	5.6	11.4%
199	Bournemouth	UK	Europe	27	5.5	10.8%
200	Hull	UK	Europe	27	4.8	9.4%
201	Everett; WA	USA	North America	27	4.7	9.4%
202	Tampa; FL	USA	North America	27	4.4	6.9%
203	Bristol	UK	Europe	27	4.7	8.8%
204	San Antonio; TX	USA	North America	27	4.5	6.1%
205	Strasbourg	France	Europe	27	4.6	9.0%
206	Sakaka	Saudi Arabia	Asia	27	6.4	15.5%
207	Linz	Austria	Europe	27	4.5	8.7%
208	Nantes	France	Europe	27	4.4	7.8%
209	Brasília	Brazil	South America	27	5.4	10.7%
210	Tijuana	Mexico	South America	27	6.7	14.1%
211	Glasgow	UK	Europe	27	4.2	5.9%
212	Nyon	Switzerland	Europe	27	4.2	7.8%
213	Toulon	France	Europe	27	4.8	8.5%
214	Abha	Saudi Arabia	Asia	27	6.2	15.1%
215	Amsterdam	Netherlands	Europe	27	4.8	9.2%
216	Palermo	Italy	Europe	26	5.1	10.7%
217	Reading	UK	Europe	26	4.2	8.3%
218	Baltimore; MD	USA	North America	26	4.7	6.9%
219	Podolsk	Russia	Europe	26	5.5	13.2%
220	Poznan	Poland	Europe	26	5.2	10.7%
221	Valencia	Spain	Europe	26	6.2	13.3%
222	Denpasar	Indonesia	Asia	26	6.0	13.5%
223	Izmir	Turkey	Europe	26	4.8	9.6%
224	Gelendzhik	Russia	Europe	26	6.2	14.1%
225	Dimitrovgrad	Russia	Europe	26	6.1	14.0%
226	Pushkino	Russia	Europe	26	6.0	14.4%
227	New Orleans; LA	USA	North America	26	4.5	7.0%
228	Porto	Portugal	Europe	26	4.3	8.2%
229	Fairfield; CA	USA	North America	26	4.8	9.9%
230	Cambridge	UK	Europe	26	4.3	8.6%
231	Mannheim	Germany	Europe	26	4.5	7.6%
232	Dublin; CA	USA	North America	26	4.7	9.5%
233	Gatchina	Russia	Europe	25	5.7	14.0%
234	Yoshkar-Ola	Russia	Europe	25	5.7	13.3%
235	Al Qurayyat	Saudi Arabia	Asia	25	6.2	15.0%
236	North Charleston; SC	USA	North America	25	3.5	6.4%
237	Debrecen	Hungary	Europe	25	5.3	11.6%
238	Teresópolis	Brazil	South America	25	5.7	13.6%
239	Leeds	UK	Europe	25	4.2	6.6%
240	Kursk	Russia	Europe	25	5.3	11.6%

## APPENDICES 2: GLOBAL ALL CITY RANKING

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Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
241	Exeter	UK	Europe	25	4.6	9.8%
242	Helsinki	Finland	Europe	25	4.9	9.8%
243	Campinas	Brazil	South America	25	4.8	10.5%
244	Santiago de Queretaro	Mexico	South America	25	5.2	10.8%
245	Neiva	Colombia	South America	25	5.6	12.9%
246	Escondido; CA	USA	North America	25	3.9	7.3%
247	Wroclaw	Poland	Europe	25	4.8	10.4%
248	St Gallen	Switzerland	Europe	25	3.7	7.0%
249	Bielefeld	Germany	Europe	25	4.5	9.1%
250	Semyonov	Russia	Europe	25	5.3	12.8%
251	Gothenburg	Sweden	Europe	24	4.1	7.6%
252	Prague	Czech Republic	Europe	24	4.7	8.8%
253	Cork	Ireland	Europe	24	4.2	8.3%
254	Woodbridge; VA	USA	North America	24	5.1	11.1%
255	Aracuja	Brazil	South America	24	5.5	12.7%
256	Biysk	Russia	Europe	24	5.8	13.0%
257	Ann Arbor; MI	USA	North America	24	3.8	6.3%
258	Belgorod	Russia	Europe	24	5.2	11.6%
259	Newport	UK	Europe	24	3.9	7.4%
260	Seville	Spain	Europe	24	5.7	13.6%
261	Lisbon	Portugal	Europe	24	4.4	8.7%
262	Cincinnati; OH	USA	North America	24	4.1	6.6%
263	Salavat	Russia	Europe	24	5.6	13.3%
264	Utrecht	Netherlands	Europe	24	4.0	7.9%
265	Santa Marta	Colombia	South America	24	5.0	11.3%
266	Darmstadt	Germany	Europe	24	3.9	7.6%
267	Ipswich	UK	Europe	24	4.2	8.1%
268	Copenhagen	Denmark	Europe	24	4.0	7.1%
269	Krefeld	Germany	Europe	24	4.2	8.2%
270	Southampton	UK	Europe	24	4.0	7.8%
271	Dordrecht	Netherlands	Europe	24	4.1	8.0%
272	Coventry	UK	Europe	24	4.0	7.1%
273	Jazan	Saudi Arabia	Asia	24	5.6	13.6%
274	Lille	France	Europe	24	3.8	6.6%
275	Wuppertal	Germany	Europe	24	4.1	7.5%
276	Toulouse	France	Europe	24	3.5	5.9%
277	Grenoble	France	Europe	24	3.8	7.1%
278	Manizales	Colombia	South America	24	5.2	11.7%
279	Leicester	UK	Europe	24	3.8	7.5%
280	Joinville	Brazil	South America	24	5.2	12.2%
281	Warrington	UK	Europe	24	4.0	7.1%
282	Cucuta	Colombia	South America	24	5.2	11.4%
283	Novocheboksarsk	Russia	Europe	23	5.8	14.6%
284	Chelmsford	UK	Europe	23	3.8	7.4%
285	Yanbu	Saudi Arabia	Asia	23	5.6	13.7%
286	Charlotte; NC	USA	North America	23	3.9	7.1%
287	Lowell; MA	USA	North America	23	4.1	8.3%
288	Lodz	Poland	Europe	23	4.9	10.2%
289	Ankara	Turkey	Europe	23	4.3	8.6%
290	Achinsk	Russia	Europe	23	5.8	13.9%
291	Graz	Austria	Europe	23	4.4	9.4%
292	Elista	Russia	Europe	23	5.9	14.6%
293	Winchester	UK	Europe	23	4.4	9.1%
294	Louisville; KY	USA	North America	23	3.9	7.2%
295	Framingham; MA	USA	North America	23	3.8	7.5%
296	Regensburg	Germany	Europe	23	4.2	8.5%
297	Petrovsk	Russia	Europe	23	5.7	14.2%
298	Kamyshin	Russia	Europe	23	5.7	13.6%
299	Nizhnekamsk	Russia	Europe	23	5.0	11.5%
300	Mecca	Saudi Arabia	Asia	23	5.7	13.5%

Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
301	Stoke-on-Trent	UK	Europe	23	3.8	7.2%
302	Norfolk; VA	USA	North America	23	4.1	6.9%
303	Milwaukee; WI	USA	North America	23	4.1	5.7%
304	Naberezhnye Chelny	Russia	Europe	23	5.1	11.1%
305	Gdansk	Poland	Europe	23	4.5	9.8%
306	Newcastle upon Tyne	UK	Europe	23	4.0	6.5%
307	Royal Leamington Spa	UK	Europe	23	3.5	6.7%
308	Bellinzona	Switzerland	Europe	23	3.7	7.8%
309	Belfast	UK	Europe	23	4.0	7.6%
310	Bridgeport; CT	USA	North America	23	4.3	9.2%
311	Saint Neots	UK	Europe	23	3.5	6.5%
312	Budapest	Hungary	Europe	23	4.2	7.6%
313	Cardiff	UK	Europe	23	4.3	9.4%
314	Nice	France	Europe	23	4.1	7.5%
315	Cuenca	Ecuador	South America	22	4.7	10.4%
316	Kstovo	Russia	Europe	22	5.2	11.7%
317	Diyarbakir	Turkey	Europe	22	5.1	11.8%
318	Columbus; OH	USA	North America	22	3.6	5.7%
319	Perugia	Italy	Europe	22	4.2	8.6%
320	Sergiyev Posad	Russia	Europe	22	5.0	12.2%
321	Turin	Italy	Europe	22	4.0	7.6%
322	České Budějovice	Czech Republic	Europe	22	4.7	10.5%
323	Haarlem	Netherlands	Europe	22	4.1	8.2%
324	Abakan	Russia	Europe	22	5.2	12.2%
325	Kuwait City	Kuwait	Asia	22	4.9	10.7%
326	Waterbury; CT	USA	North America	22	4.7	10.4%
327	Arzamas	Russia	Europe	22	5.0	11.6%
328	Villahermosa	Mexico	South America	22	5.2	10.4%
329	St. Louis; MO	USA	North America	22	3.4	4.3%
330	Cheltenham	UK	Europe	22	3.6	7.5%
331	Thun	Switzerland	Europe	22	3.7	7.7%
332	Riobamba	Ecuador	South America	22	5.1	11.9%
333	Las Vegas; NV	USA	North America	22	4.4	7.5%
334	Taganrog	Russia	Europe	21	5.1	12.0%
335	Danbury; CT	USA	North America	21	3.6	7.2%
336	Drammen	Norway	Europe	21	3.5	7.0%
337	Dana Point; CA	USA	North America	21	4.8	11.4%
338	Stevenage	UK	Europe	21	3.1	5.5%
339	Ljubljana	Slovenia	Europe	21	4.1	9.0%
340	Sheffield	UK	Europe	21	3.6	6.4%
341	Florence	Italy	Europe	21	4.0	7.8%
342	Memphis; TN	USA	North America	21	3.9	6.3%
343	Ibague	Colombia	South America	21	4.6	10.7%
344	Leninskiy	Russia	Europe	21	4.9	11.2%
345	The Hague	Netherlands	Europe	21	3.6	6.5%
346	Maracay	Venezuela	South America	21	4.1	8.9%
347	Victoria	Canada	North America	21	3.9	7.9%
348	Khamis Mushait	Saudi Arabia	Asia	21	4.9	12.1%
349	New Haven; CT	USA	North America	21	4.0	8.7%
350	Esch-sur-Alzette	Luxembourg	Europe	21	3.2	5.8%
351	Nogales	Mexico	South America	21	5.1	11.9%
352	Farnborough	UK	Europe	21	3.4	6.7%
353	Mexicali	Mexico	South America	21	5.4	12.1%
354	Bremen	Germany	Europe	21	4.1	8.1%
355	Chester	UK	Europe	21	3.5	7.2%
356	Brno	Czech Republic	Europe	21	4.1	8.6%
357	Rotterdam	Netherlands	Europe	21	3.7	7.6%
358	Liverpool	UK	Europe	21	4.2	8.4%
359	Cuiabá	Brazil	South America	21	4.6	10.5%
360	Razliv	Russia	Europe	21	4.9	11.8%

## APPENDICES 2: GLOBAL ALL CITY RANKING

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Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
361	Jacksonville; FL	USA	North America	21	3.5	5.4%
362	Sorocaba	Brazil	South America	21	4.6	10.9%
363	Catanduva	Brazil	South America	21	4.7	11.1%
364	Davis; CA	USA	North America	21	4.1	7.9%
365	Caguas	Puerto Rico	North America	21	3.7	7.9%
366	Itajaí	Brazil	South America	20	4.3	10.1%
367	Wigan	UK	Europe	20	3.6	7.6%
368	Dresden	Germany	Europe	20	4.0	8.4%
369	Eskisehir	Turkey	Europe	20	4.3	9.8%
370	Ibarra	Ecuador	South America	20	4.8	11.2%
371	Charleston; SC	USA	North America	20	3.4	7.0%
372	Providence; RI	USA	North America	20	3.6	6.1%
373	Iskitim	Russia	Europe	20	4.9	11.7%
374	Portsmouth	UK	Europe	20	3.5	7.2%
375	Aachen	Germany	Europe	20	3.8	7.8%
376	São José dos Campos	Brazil	South America	20	4.2	9.7%
377	Palmas	Brazil	South America	20	4.9	12.6%
378	Northampton	UK	Europe	20	3.4	6.9%
379	Mococa	Brazil	South America	20	4.6	10.1%
380	Sligo	Ireland	Europe	20	4.1	9.0%
381	Berezovskiy	Russia	Europe	20	4.0	9.1%
382	Arnhem	Netherlands	Europe	20	3.7	7.8%
383	Campo Grande	Brazil	South America	20	4.7	10.8%
384	Pietermaritzburg	South Africa	Africa	20	4.0	8.6%
385	Sterlitamak	Russia	Europe	20	4.6	10.5%
386	Innsbruck	Austria	Europe	20	4.1	9.2%
387	Hampton; VA	USA	North America	20	3.5	6.8%
388	La Vega	Colombia	South America	20	4.8	11.8%
389	Ciudad Juarez	Mexico	South America	20	5.1	10.7%
390	Itabuna	Brazil	South America	20	4.5	10.6%
391	Kassel	Germany	Europe	20	3.8	8.1%
392	Neftekamsk	Russia	Europe	20	4.9	11.9%
393	Leiden	Netherlands	Europe	19	3.3	6.3%
394	Chemnitz	Germany	Europe	19	4.0	8.8%
395	Nottingham	UK	Europe	19	3.2	6.2%
396	Las Rozas	Spain	Europe	19	3.9	9.0%
397	Colchester	UK	Europe	19	3.4	7.1%
398	Arar	Saudi Arabia	Asia	19	4.4	11.0%
399	Clearwater; FL	USA	North America	19	3.7	6.1%
400	Wilmington; NC	USA	North America	19	3.4	6.9%
401	Port Elizabeth	South Africa	Africa	19	3.3	6.4%
402	Roquebrune-Cap-Martin	France	Europe	19	3.9	8.6%
403	Lawrence; MA	USA	North America	19	3.2	6.4%
404	Bogor	Indonesia	Asia	19	4.6	11.4%
405	Cleveland; OH	USA	North America	19	3.1	4.5%
406	Dumat Al-Jandal	Saudi Arabia	Asia	19	4.4	10.8%
407	Lukhovitsy	Russia	Europe	19	4.1	9.6%
408	Lübeck	Germany	Europe	19	3.9	8.8%
409	Kansas City; MO	USA	North America	19	3.3	4.2%
410	Wilmington; DE	USA	North America	19	3.6	6.3%
411	Ciudad del Carmen	Mexico	South America	19	4.8	11.3%
412	Hartford; CT	USA	North America	19	3.6	5.9%
413	Brunswick	Germany	Europe	19	3.7	7.7%
414	Oceanside; CA	USA	North America	19	4.1	8.8%
415	Liege	Belgium	Europe	19	3.2	5.8%
416	Montpellier	France	Europe	19	3.5	6.9%
417	Campina Grande	Brazil	South America	19	4.6	12.4%
418	Shrewsbury	UK	Europe	19	3.6	7.5%
419	Milton Keynes	UK	Europe	18	2.8	5.4%
420	Fazenda Rio Grande	Brazil	South America	18	4.2	9.8%

Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
421	Kushchevskaya	Russia	Europe	18	4.4	11.2%
422	Genoa	Italy	Europe	18	3.4	7.4%
423	Aix-en-Provence	France	Europe	18	2.9	5.5%
424	Chattanooga; TN	USA	North America	18	3.1	5.9%
425	Worcester	UK	Europe	18	3.3	6.8%
426	Katowice	Poland	Europe	18	3.2	6.5%
427	Bergen	Norway	Europe	18	3.1	6.0%
428	Passos	Brazil	South America	18	4.1	9.7%
429	Oaxaca	Mexico	South America	18	4.2	9.1%
430	Indianapolis; IN	USA	North America	18	3.1	5.0%
431	Dundee	UK	Europe	18	3.5	7.1%
432	Raleigh; NC	USA	North America	18	3.1	6.0%
433	Ambato	Ecuador	South America	18	3.8	8.7%
434	Fribourg	Switzerland	Europe	18	3.0	6.2%
435	Jundiaí	Brazil	South America	18	3.9	9.1%
436	Serpuukhov	Russia	Europe	18	4.1	10.3%
437	East London	South Africa	Africa	18	3.2	6.7%
438	Kaiserslautern	Germany	Europe	18	3.4	7.3%
439	Wolfsburg	Germany	Europe	18	3.1	6.0%
440	Amersfoort	Netherlands	Europe	18	3.2	6.6%
441	Barinas	Venezuela	South America	18	3.8	8.7%
442	Rennes	France	Europe	17	3.0	5.8%
443	Uberlândia	Brazil	South America	17	4.3	10.6%
444	Schaffhausen	Switzerland	Europe	17	3.0	6.4%
445	Londonderry	UK	Europe	17	3.6	8.0%
446	Bologna	Italy	Europe	17	3.2	6.7%
447	Edmonton	Canada	North America	17	3.6	6.3%
448	Mafra	Brazil	South America	17	3.7	8.4%
449	Khaj	Saudi Arabia	Asia	17	4.1	9.7%
450	Hagen	Germany	Europe	17	3.3	6.8%
451	Brighton and Hove	UK	Europe	17	3.2	6.8%
452	Jönköping	Sweden	Europe	17	3.0	6.1%
453	Hradec Králové	Czech Republic	Europe	17	3.7	8.1%
454	Mönchengladbach	Germany	Europe	17	3.3	7.0%
455	Birmingham; AL	USA	North America	17	2.8	4.9%
456	Swansea	UK	Europe	17	3.0	5.7%
457	Durham	UK	Europe	17	2.8	6.0%
458	Rouen	France	Europe	17	3.2	6.3%
459	Oxnard; CA	USA	North America	16	3.4	7.2%
460	Novo Hamburgo	Brazil	South America	16	4.0	9.2%
461	Limerick	Ireland	Europe	16	3.4	8.1%
462	Aarhus	Denmark	Europe	16	3.1	6.5%
463	Adana	Turkey	Europe	16	3.5	7.6%
464	Valenciennes	France	Europe	16	2.8	5.5%
465	Hamilton; ON	Canada	North America	16	3.4	7.5%
466	Münster	Germany	Europe	16	3.1	7.1%
467	San Luis Potosi	Mexico	South America	16	3.5	6.9%
468	Rochester	UK	Europe	16	2.8	5.8%
469	Zaragoza	Spain	Europe	16	3.8	9.5%
470	Bloemfontein	South Africa	Africa	16	3.1	6.3%
471	Tubarão	Brazil	South America	16	3.5	8.0%
472	Groningen	Netherlands	Europe	16	3.2	6.6%
473	El Paso; TX	USA	North America	16	3.9	7.9%
474	Manta	Ecuador	South America	16	3.7	8.6%
475	Kiel	Germany	Europe	16	3.2	6.9%
476	Ponce	Puerto Rico	North America	16	3.4	8.1%
477	Bari	Italy	Europe	16	3.4	7.6%
478	Fredericksburg; VA	USA	North America	16	3.5	8.3%
479	Salt Lake City; UT	USA	North America	16	2.8	5.3%
480	Aguascalientes	Mexico	South America	16	3.7	8.1%



## APPENDICES 2: GLOBAL ALL CITY RANKING

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Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
481	Calgary	Canada	North America	16	2.8	4.6%
482	Nimes	France	Europe	16	3.3	7.0%
483	Plymouth	UK	Europe	16	3.1	6.8%
484	Koblenz	Germany	Europe	16	3.0	6.2%
485	Swindon	UK	Europe	16	2.5	4.8%
486	Buffalo; NY	USA	North America	16	2.9	6.2%
487	Aalborg	Denmark	Europe	16	3.0	6.7%
488	Preston	UK	Europe	16	2.9	5.7%
489	Catania	Italy	Europe	16	3.1	7.2%
490	Ingolstadt	Germany	Europe	16	2.8	6.1%
491	Naples	Italy	Europe	16	3.1	6.3%
492	Örebro	Sweden	Europe	16	3.0	6.8%
493	Waterford	Ireland	Europe	16	3.3	7.5%
494	Sarasota; FL	USA	North America	16	3.0	5.3%
495	Alicante	Spain	Europe	16	3.3	7.9%
496	Colorado Springs; CO	USA	North America	16	3.0	6.1%
497	Toluca	Mexico	South America	16	3.4	6.7%
498	Vigo	Spain	Europe	16	3.9	10.3%
499	Tikhoretsk	Russia	Europe	15	3.4	8.0%
500	Gijón	Spain	Europe	15	3.8	9.9%
501	Como	Italy	Europe	15	3.6	8.9%
502	Ciudad Obregon	Mexico	South America	15	3.7	8.4%
503	Ghent	Belgium	Europe	15	2.9	6.0%
504	Lexington; KY	USA	North America	15	2.8	5.9%
505	Talavera de la Reina	Spain	Europe	15	3.4	8.8%
506	Derby	UK	Europe	15	2.5	5.1%
507	San Juan del Rio	Mexico	South America	15	3.9	9.7%
508	Lins	Brazil	South America	15	3.4	7.8%
509	Doncaster	UK	Europe	15	2.8	6.0%
510	's-Hertogenbosch	Netherlands	Europe	15	2.5	5.1%
511	Ust-Labinsk	Russia	Europe	15	3.6	8.5%
512	Slavyansk-na-Kubani	Russia	Europe	15	3.6	8.3%
513	Sinop	Brazil	South America	15	3.4	8.2%
514	Al Ain	United Arab Emirates	Asia	15	3.7	8.8%
515	Yverdon-les-Bains	Switzerland	Europe	15	2.6	5.5%
516	Oklahoma City; OK	USA	North America	15	2.8	5.3%
517	Samsun	Turkey	Europe	15	3.4	7.8%
518	Novoaltaysk	Russia	Europe	15	3.4	7.8%
519	Kaspiysk	Russia	Europe	15	3.8	9.7%
520	Brest	France	Europe	15	2.7	5.5%
521	Labinsk	Russia	Europe	15	4.0	9.8%
522	Caen	France	Europe	15	2.7	5.2%
523	Kanevskaya	Russia	Europe	15	3.4	8.1%
524	Liberec	Czech Republic	Europe	15	3.2	7.6%
525	Vitoria-Gasteiz	Spain	Europe	15	3.5	8.3%
526	Murcia	Spain	Europe	15	3.2	7.5%
527	Roskilde	Denmark	Europe	15	2.4	4.8%
528	Turku	Finland	Europe	15	3.5	8.6%
529	Unna	Germany	Europe	15	2.9	6.1%
530	Eindhoven	Netherlands	Europe	15	2.8	5.7%
531	Stockton; CA	USA	North America	15	2.7	6.0%
532	Bilbao	Spain	Europe	15	3.0	6.9%
533	Durango	Mexico	South America	14	3.7	8.5%
534	A Coruña	Spain	Europe	14	3.6	9.2%
535	Tamworth	UK	Europe	14	2.3	4.6%
536	Medina	Saudi Arabia	Asia	14	3.6	9.0%
537	Salinas; CA	USA	North America	14	2.9	6.4%
538	Konya	Turkey	Europe	14	3.0	6.8%
539	Crawley	UK	Europe	14	2.4	5.2%
540	Kortrijk	Belgium	Europe	14	2.9	5.7%

Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
541	Kolomna	Russia	Europe	14	3.2	7.8%
542	Mazatlan	Mexico	South America	14	3.5	8.0%
543	Córdoba	Spain	Europe	14	3.4	8.7%
544	Erechim	Brazil	South America	14	3.4	8.4%
545	Anaco	Venezuela	South America	14	3.0	6.8%
546	Chartres	France	Europe	14	2.6	5.3%
547	Ellesmere Port	UK	Europe	14	2.6	5.7%
548	Nijmegen	Netherlands	Europe	14	2.9	6.6%
549	Plzen	Czech Republic	Europe	14	3.0	6.7%
550	Leipzig	Germany	Europe	14	2.7	5.9%
551	Tilburg	Netherlands	Europe	14	2.6	5.5%
552	Pamplona	Spain	Europe	14	3.1	7.4%
553	Blackpool	UK	Europe	14	3.0	7.3%
554	Wexford	Ireland	Europe	14	2.8	6.3%
555	Inverness	UK	Europe	14	2.8	6.2%
556	Gaziantep	Turkey	Europe	14	3.1	7.5%
557	Potsdam	Germany	Europe	14	2.5	5.4%
558	Vallejo; CA	USA	North America	14	2.8	6.6%
559	Joliet; IL	USA	North America	14	2.6	5.2%
560	Vacaville; CA	USA	North America	14	3.2	7.3%
561	Bishop's Stortford	UK	Europe	14	2.3	4.7%
562	Ciudad Victoria	Mexico	South America	14	3.5	7.3%
563	Anglet	France	Europe	14	2.6	5.4%
564	Leon	Mexico	South America	14	3.1	7.1%
565	Alès	France	Europe	14	2.8	5.8%
566	Valladolid	Spain	Europe	14	3.0	7.2%
567	Folkestone	UK	Europe	14	3.0	7.2%
568	Augsburg	Germany	Europe	14	2.5	5.4%
569	San Martin Texmelucan de Labastida	Mexico	South America	14	3.4	7.5%
570	Gloucester	UK	Europe	14	2.2	4.6%
571	Siegen	Germany	Europe	14	2.7	5.8%
572	Ourense	Spain	Europe	14	3.1	7.9%
573	Tampere	Finland	Europe	13	2.9	7.0%
574	Allentown; PA	USA	North America	13	2.5	4.8%
575	Vitrolles	France	Europe	13	2.0	3.7%
576	Namur	Belgium	Europe	13	2.2	4.5%
577	Hermosillo	Mexico	South America	13	3.1	6.7%
578	Grand Rapids; MI	USA	North America	13	2.3	4.8%
579	Calais	France	Europe	13	2.8	6.3%
580	Thuwal	Saudi Arabia	Asia	13	2.9	7.2%
581	Al Muzahimiyah	Saudi Arabia	Asia	13	3.0	7.4%
582	Portland; ME	USA	North America	13	2.5	5.6%
583	Mansfield	UK	Europe	13	2.4	5.0%
584	Saltillo	Mexico	South America	13	3.0	6.2%
585	Armavir	Russia	Europe	13	3.6	9.2%
586	Albany; NY	USA	North America	13	2.3	4.4%
587	Rionegro	Colombia	South America	13	2.9	6.6%
588	Székesfehérvár	Hungary	Europe	13	2.7	5.9%
589	Khafji	Saudi Arabia	Asia	13	3.3	8.6%
590	Mulhouse	France	Europe	13	2.3	4.6%
591	Magdeburg	Germany	Europe	13	2.4	5.2%
592	Vannes	France	Europe	13	2.4	5.3%
593	Tønsberg	Norway	Europe	13	2.2	4.7%
594	Culiacan	Mexico	South America	13	2.9	6.2%
595	Spokane; WA	USA	North America	13	2.4	4.7%
596	Frederick; MD	USA	North America	13	2.1	4.2%
597	Ulm	Germany	Europe	13	2.5	5.1%
598	Campo Mourão	Brazil	South America	13	2.5	5.7%
599	Orizaba	Mexico	South America	13	2.9	6.4%
600	McAllen; TX	USA	North America	13	2.4	5.0%

## APPENDICES 2: GLOBAL ALL CITY RANKING

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Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
601	Santander	Spain	Europe	13	3.0	7.5%
602	Springfield; MA	USA	North America	13	2.5	5.0%
603	Neuchatel	Switzerland	Europe	13	2.5	5.9%
604	Veracruz	Mexico	South America	13	2.8	6.1%
605	Missoula; MT	USA	North America	13	2.6	6.1%
606	Logroño	Spain	Europe	13	2.8	7.0%
607	Albuquerque; NM	USA	North America	13	2.4	4.7%
608	Araçatuba	Brazil	South America	13	3.0	7.5%
609	Halifax; NS	Canada	North America	13	2.5	5.6%
610	Formosa	Brazil	South America	13	2.9	6.8%
611	L'Aquila	Italy	Europe	13	2.7	6.1%
612	Regina; SK	Canada	North America	13	2.8	6.5%
613	Étrembières	France	Europe	12	2.3	4.8%
614	Huachuinango	Mexico	South America	12	3.3	8.4%
615	Porto União	Brazil	South America	12	3.0	7.2%
616	King of Prussia; PA	USA	North America	12	2.1	4.5%
617	Chihuahua	Mexico	South America	12	3.0	6.6%
618	Dammam	Saudi Arabia	Asia	12	2.8	5.9%
619	Almetyevsk	Russia	Europe	12	3.0	7.3%
620	Olomouc	Czech Republic	Europe	12	2.5	5.7%
621	Columbia; SC	USA	North America	12	2.2	4.3%
622	Rolândia	Brazil	South America	12	2.7	6.5%
623	Avilés	Spain	Europe	12	2.8	6.9%
624	Wrexham	UK	Europe	12	2.2	4.6%
625	Ocean Township; NJ	USA	North America	12	2.8	7.0%
626	Al Bukayriyah	Saudi Arabia	Asia	12	2.8	7.1%
627	Pisa	Italy	Europe	12	2.6	6.0%
628	Bakersfield; CA	USA	North America	12	2.3	5.0%
629	Lorient	France	Europe	12	2.2	4.6%
630	Toms River; NJ	USA	North America	12	2.5	5.6%
631	Hammond; IN	USA	North America	12	2.4	4.8%
632	Wellingborough	UK	Europe	12	2.2	4.9%
633	Sankt Pölten	Austria	Europe	12	2.2	4.9%
634	Odense	Denmark	Europe	12	2.4	5.4%
635	Blackburn	UK	Europe	12	2.3	5.1%
636	Gary; IN	USA	North America	12	2.6	5.7%
637	Göttingen	Germany	Europe	12	2.4	5.5%
638	Annecy	France	Europe	12	2.2	4.7%
639	Frauenfeld	Switzerland	Europe	12	2.0	4.4%
640	Salem; OR	USA	North America	12	2.3	5.0%
641	Herford	Germany	Europe	12	2.3	5.1%
642	Valence	France	Europe	12	2.7	6.3%
643	Burnley	UK	Europe	12	2.6	5.6%
644	Worcester; MA	USA	North America	12	2.4	4.9%
645	Brownsville; TX	USA	North America	12	2.7	6.6%
646	Tuscaloosa; AL	USA	North America	12	2.5	4.9%
647	Winnipeg; MB	Canada	North America	12	2.2	4.3%
648	Stupino	Russia	Europe	12	2.8	7.0%
649	Lucca	Italy	Europe	12	2.3	5.2%
650	Zamora	Spain	Europe	12	2.7	7.0%
651	Gainesville; FL	USA	North America	12	2.5	5.7%
652	Bergamo	Italy	Europe	12	2.1	4.7%
653	La Rochelle	France	Europe	12	2.3	4.8%
654	Dreux	France	Europe	12	2.2	4.4%
655	Salerno	Italy	Europe	12	2.6	6.2%
656	Paderborn	Germany	Europe	12	2.4	5.3%
657	Fréjus	France	Europe	12	2.5	5.7%
658	Merida	Mexico	South America	12	2.8	5.9%
659	Greenville; SC	USA	North America	12	2.1	4.5%
660	Omaha; NE	USA	North America	11	2.0	3.9%

Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
661	Kolding	Denmark	Europe	11	2.2	5.0%
662	Toledo; OH	USA	North America	11	2.2	4.3%
663	Plasencia	Spain	Europe	11	3.0	8.4%
664	Kettering	UK	Europe	11	2.1	4.8%
665	Aubagne	France	Europe	11	1.9	3.8%
666	Klagenfurt	Austria	Europe	11	2.4	5.7%
667	Harrisburg; PA	USA	North America	11	2.0	3.8%
668	Moji-Mirim	Brazil	South America	11	2.7	6.2%
669	Saarlouis	Germany	Europe	11	2.1	4.6%
670	Boise; ID	USA	North America	11	2.2	5.1%
671	Hildesheim	Germany	Europe	11	2.4	5.5%
672	Speyer	Germany	Europe	11	2.1	4.3%
673	Maribor	Slovenia	Europe	11	2.5	5.8%
674	Padua	Italy	Europe	11	1.9	3.9%
675	Mantes-la-Ville	France	Europe	11	2.3	5.2%
676	Horsens	Denmark	Europe	11	2.2	4.9%
677	Rimini	Italy	Europe	11	2.3	5.3%
678	Shakhty	Russia	Europe	11	2.7	6.4%
679	Knoxville; TN	USA	North America	11	2.1	4.8%
680	Darlington	UK	Europe	11	2.0	4.6%
681	Le Havre	France	Europe	11	2.2	4.5%
682	Margny-lès-Compiègne	France	Europe	11	1.9	3.8%
683	Lençóis Paulista	Brazil	South America	11	2.7	6.9%
684	Lafayette; IN	USA	North America	11	2.3	5.4%
685	New Braunfels; TX	USA	North America	11	2.2	5.1%
686	Saint-Brieuc	France	Europe	11	2.2	4.8%
687	Olympia; WA	USA	North America	11	2.2	4.9%
688	Villach	Austria	Europe	11	2.5	5.9%
689	Bayreuth	Germany	Europe	11	2.2	5.1%
690	Badajoz	Spain	Europe	11	2.6	6.9%
691	Reno; NV	USA	North America	11	2.0	4.0%
692	Denton; TX	USA	North America	11	2.3	5.2%
693	Dayton; OH	USA	North America	11	2.0	3.6%
694	Wiener Neustadt	Austria	Europe	11	2.3	5.3%
695	Etimesgut	Turkey	Europe	11	2.1	5.0%
696	Nashua; NH	USA	North America	11	2.2	5.2%
697	Lugo	Spain	Europe	11	2.6	6.6%
698	Sion	Switzerland	Europe	11	1.8	3.9%
699	Schweinfurt	Germany	Europe	11	2.2	4.9%
700	Pau	France	Europe	11	1.8	3.7%
701	Richmond; VA	USA	North America	11	2.2	4.0%
702	Yegoryevsk	Russia	Europe	11	2.7	6.9%
703	Bathgate	UK	Europe	11	1.7	3.2%
704	Pentir	UK	Europe	11	2.1	4.5%
705	Clermont-Ferrand	France	Europe	11	1.9	4.0%
706	Batatais	Brazil	South America	11	2.2	5.0%
707	Torreón	Mexico	South America	11	2.3	4.9%
708	North Chicago; IL	USA	North America	11	1.8	3.6%
709	Saint-Étienne	France	Europe	11	1.8	3.6%
710	Melun	France	Europe	11	1.9	4.4%
711	Monthey	Switzerland	Europe	11	1.7	3.4%
712	Vilanova i la Geltrú	Spain	Europe	11	2.4	5.9%
713	Bergkamen	Germany	Europe	11	2.2	5.0%
714	Amiens	France	Europe	11	2.0	4.3%
715	Singapore	Singapore	Asia	10	1.8	2.5%
716	Elgin; IL	USA	North America	10	2.0	4.4%
717	Tucson; AZ	USA	North America	10	2.0	4.0%
718	Latacunga	Ecuador	South America	10	2.4	5.7%
719	Mobile; AL	USA	North America	10	2.1	4.4%
720	Pordenone	Italy	Europe	10	1.9	4.3%

## APPENDICES 2: GLOBAL ALL CITY RANKING

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Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
721	Torrelavega	Spain	Europe	10	2.3	5.7%
722	Offenburg	Germany	Europe	10	1.9	4.0%
723	Romans-sur-Isère	France	Europe	10	1.9	4.1%
724	Thionville	France	Europe	10	1.7	3.5%
725	Orleans	France	Europe	10	2.1	4.8%
726	Alcala de Henares	Spain	Europe	10	2.2	5.5%
727	Bourges	France	Europe	10	2.1	4.4%
728	Ogden; UT	USA	North America	10	2.0	4.4%
729	Elche	Spain	Europe	10	2.2	5.3%
730	Dunfermline	UK	Europe	10	1.8	3.7%
731	Little Rock; AR	USA	North America	10	1.7	3.4%
732	Malmö	Sweden	Europe	10	2.1	4.7%
733	Santiago de Compostela	Spain	Europe	10	2.5	6.4%
734	Bolzano	Italy	Europe	10	2.0	4.6%
735	Lajeado	Brazil	South America	10	2.2	5.2%
736	Daventry	UK	Europe	10	2.0	4.2%
737	Dijon	France	Europe	10	1.9	3.9%
738	Ústí nad Labem	Czech Republic	Europe	10	2.3	5.5%
739	Nuevo Laredo	Mexico	South America	10	2.4	5.4%
740	Ituana	Brazil	South America	10	2.5	6.0%
741	Melbourne; FL	USA	North America	10	2.0	4.5%
742	Niagara Falls; NY	USA	North America	10	2.7	6.8%
743	Charlottesville; VA	USA	North America	10	2.0	4.6%
744	Mons	Belgium	Europe	10	1.7	3.2%
745	Saskatoon; SK	Canada	North America	10	2.1	4.3%
746	Salamanca	Mexico	South America	10	2.3	5.6%
747	Moncton; NB	Canada	North America	10	2.1	4.9%
748	Al Majmaah	Saudi Arabia	Asia	10	2.2	5.5%
749	Bruges	Belgium	Europe	10	1.9	4.4%
750	Akron; OH	USA	North America	10	2.0	4.2%
751	Tehuacan	Mexico	South America	10	2.5	6.3%
752	Muret	France	Europe	10	1.6	3.3%
753	Szeged	Hungary	Europe	10	2.1	5.0%
754	Leeuwarden	Netherlands	Europe	10	2.1	4.9%
755	Oriândia	Brazil	South America	10	2.1	4.8%
756	Ashford	UK	Europe	10	1.7	3.7%
757	Salamanca	Spain	Europe	10	2.3	5.6%
758	Basingstoke	UK	Europe	10	1.7	3.6%
759	Vejle	Denmark	Europe	10	1.8	4.0%
760	Pontevedra	Spain	Europe	10	2.5	6.5%
761	Panapolis	Brazil	South America	10	2.6	6.7%
762	Miskolc	Hungary	Europe	10	2.0	4.7%
763	Karlovy Vary	Czech Republic	Europe	10	2.2	5.4%
764	Plant City; FL	USA	North America	10	1.8	3.8%
765	Tulsa; OK	USA	North America	10	1.8	3.4%
766	Limoges	France	Europe	10	1.9	4.1%
767	Albi	France	Europe	10	1.8	4.0%
768	Rugby	UK	Europe	10	1.8	4.0%
769	Cáceres	Spain	Europe	10	2.4	6.5%
770	Brick; NJ	USA	North America	10	2.0	4.7%
771	Neunkirchen	Austria	Europe	10	1.9	4.3%
772	Scranton; PA	USA	North America	10	1.8	3.7%
773	Arendal	Norway	Europe	10	1.8	4.2%
774	Randers	Denmark	Europe	10	2.0	4.7%
775	Capbreton	France	Europe	10	2.2	5.4%
776	Verviers	Belgium	Europe	10	1.8	3.9%
777	Pensacola; FL	USA	North America	10	1.9	4.1%
778	Durham; NC	USA	North America	10	1.7	3.7%
779	Fort Myers; FL	USA	North America	9	1.9	4.1%
780	Andrézieux-Bouthéon	France	Europe	9	1.6	3.4%

Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
781	Flensburg	Germany	Europe	9	2.2	5.3%
782	Beauvais	France	Europe	9	1.7	3.6%
783	Lansing; MI	USA	North America	9	2.0	4.7%
784	Madison; WI	USA	North America	9	1.6	3.0%
785	Interlaken	Switzerland	Europe	9	2.3	6.2%
786	Portsmouth; NH	USA	North America	9	1.9	4.4%
787	Manchester; NH	USA	North America	9	1.9	4.3%
788	Dinskaya	Russia	Europe	9	2.0	4.8%
789	Windsor; ON	Canada	North America	9	1.9	4.4%
790	Perpignan	France	Europe	9	1.8	3.8%
791	Montgomery; AL	USA	North America	9	1.8	3.8%
792	Buford; GA	USA	North America	9	2.2	5.2%
793	Roanoke; VA	USA	North America	9	1.8	3.9%
794	Ocala; FL	USA	North America	9	1.9	4.3%
795	Evansville; IN	USA	North America	9	2.0	4.3%
796	Poitiers	France	Europe	9	1.8	4.1%
797	Jackson; MS	USA	North America	9	1.8	4.0%
798	Tepic	Mexico	South America	9	2.3	5.5%
799	Pontedera	Italy	Europe	9	1.8	4.1%
800	Tallahassee; FL	USA	North America	9	1.9	4.3%
801	Matão	Brazil	South America	9	2.3	5.7%
802	Beaumont; TX	USA	North America	9	1.8	3.9%
803	Deganwy	UK	Europe	9	2.0	4.8%
804	Lancaster; CA	USA	North America	9	2.1	5.4%
805	Cordoba	Mexico	South America	9	2.2	5.1%
806	Peterborough	UK	Europe	9	1.6	3.5%
807	Verona	Italy	Europe	9	1.7	3.8%
808	Schenectady; NY	USA	North America	9	1.7	4.0%
809	Fargo; ND	USA	North America	9	1.9	4.5%
810	Hagerstown; MD	USA	North America	9	2.1	5.6%
811	Gera	Germany	Europe	9	1.8	4.0%
812	Girona	Spain	Europe	9	1.9	4.4%
813	Pescara	Italy	Europe	9	1.9	4.1%
814	Delano; CA	USA	North America	9	1.8	4.2%
815	Mersin	Turkey	Europe	9	2.1	5.1%
816	Rochester; NY	USA	North America	9	1.8	3.6%
817	Busto Arsizio	Italy	Europe	9	1.7	3.5%
818	Saint John; NS	Canada	North America	9	2.0	4.4%
819	Santa Fe; NM	USA	North America	9	2.0	4.6%
820	Nancy	France	Europe	9	1.6	3.5%
821	Tepeji	Mexico	South America	9	2.4	6.2%
822	Fulda	Germany	Europe	9	1.8	4.2%
823	Aosta	Italy	Europe	9	2.0	4.9%
824	Hamar	Norway	Europe	9	1.8	4.1%
825	Flint; MI	USA	North America	9	1.9	4.6%
826	Silao	Mexico	South America	9	2.0	4.9%
827	Gyor	Hungary	Europe	9	1.7	3.7%
828	Columbus; GA	USA	North America	9	1.7	3.8%
829	Daytona Beach; FL	USA	North America	9	2.1	4.7%
830	Winston-Salem; NC	USA	North America	9	1.7	3.3%
831	Auburn; CA	USA	North America	9	1.9	4.4%
832	Montbéliard	France	Europe	9	1.7	3.7%
833	Bergheim	Germany	Europe	9	1.7	4.0%
834	Trento	Italy	Europe	9	1.9	4.5%
835	Sakarya	Turkey	Europe	9	1.9	4.6%
836	Fresno; CA	USA	North America	9	1.8	3.9%
837	Billings; MT	USA	North America	9	1.8	4.1%
838	Noyelles-sous-Lens	France	Europe	9	1.6	3.1%
839	Reggio Emilia	Italy	Europe	9	1.5	3.2%
840	Bountiful; UT	USA	North America	9	1.8	4.3%

## APPENDICES 2: GLOBAL ALL CITY RANKING

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Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
841	Celaya	Mexico	South America	9	2.0	4.9%
842	Stirling	UK	Europe	9	1.6	3.6%
843	Trieste	Italy	Europe	9	2.1	5.1%
844	Modena	Italy	Europe	9	1.5	3.2%
845	Ostrava	Czech Republic	Europe	9	1.9	4.3%
846	New Bedford; MA	USA	North America	9	1.8	4.3%
847	Guadalupe	Mexico	South America	9	2.1	4.9%
848	Patchogue; NY	USA	North America	9	1.7	3.8%
849	Campeche	Mexico	South America	9	2.1	5.1%
850	Butte; MT	USA	North America	8	2.0	4.8%
851	Salon-de-Provence	France	Europe	8	1.6	3.5%
852	Charleroi	Belgium	Europe	8	1.5	3.1%
853	Lodi; CA	USA	North America	8	1.9	4.5%
854	Syracuse; NY	USA	North America	8	1.7	3.9%
855	Waco; TX	USA	North America	8	1.9	4.2%
856	Tours	France	Europe	8	1.6	3.5%
857	Araranguá	Brazil	South America	8	1.9	4.6%
858	Boulogne-sur-Mer	France	Europe	8	1.7	3.9%
859	Port St. Lucie; FL	USA	North America	8	1.8	4.2%
860	Bridgend	UK	Europe	8	1.6	3.9%
861	Mans (Le)	France	Europe	8	1.6	3.7%
862	Korenovsk	Russia	Europe	8	1.8	4.4%
863	Reims	France	Europe	8	1.6	3.4%
864	Besançon	France	Europe	8	1.3	2.8%
865	Wels	Austria	Europe	8	1.8	4.5%
866	Meriden; CT	USA	North America	8	1.7	4.1%
867	Kilmarnock	UK	Europe	8	1.6	3.7%
868	Brescia	Italy	Europe	8	1.7	4.2%
869	Évreux	France	Europe	8	1.5	3.2%
870	Newry	UK	Europe	8	1.6	3.7%
871	Erie; PA	USA	North America	8	1.7	4.1%
872	Heerlen	Netherlands	Europe	8	1.6	3.5%
873	Gresham; OR	USA	North America	8	1.9	4.8%
874	Stuart; FL	USA	North America	8	1.7	4.0%
875	Narbonne	France	Europe	8	1.7	3.8%
876	Easton; PA	USA	North America	8	1.9	4.2%
877	New London; CT	USA	North America	8	2.0	4.8%
878	San Sebastián	Spain	Europe	8	1.7	4.0%
879	Irapuato	Mexico	South America	8	1.8	4.1%
880	Chambéry	France	Europe	8	1.5	3.4%
881	Blois	France	Europe	8	1.3	2.6%
882	Martorell	Spain	Europe	8	1.8	4.5%
883	Falkirk	UK	Europe	8	1.5	3.2%
884	Quimper	France	Europe	8	1.3	2.8%
885	Rochefort	France	Europe	8	1.5	3.2%
886	Carlow	Ireland	Europe	8	1.9	4.8%
887	León	Spain	Europe	8	2.0	5.3%
888	Taquaritinga	Brazil	South America	8	2.0	5.1%
889	South Bend; IN	USA	North America	8	1.6	3.1%
890	Dunkirk	France	Europe	8	1.5	3.3%
891	Colmar	France	Europe	8	1.5	3.3%
892	Amarillo; TX	USA	North America	8	1.6	3.4%
893	Villefranche-sur-Saone	France	Europe	8	1.5	3.4%
894	Macon; GA	USA	North America	8	1.5	3.3%
895	Épinal	France	Europe	8	1.4	3.2%
896	Conroe; TX	USA	North America	8	1.5	3.5%
897	Fort Wayne; IN	USA	North America	8	1.6	3.6%
898	Naples; FL	USA	North America	8	1.8	4.7%
899	Lincoln; NE	USA	North America	8	1.5	3.2%
900	Eugene; OR	USA	North America	8	1.5	3.3%



Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
901	Shreveport; LA	USA	North America	8	1.5	3.0%
902	Lethbridge; AB	Canada	North America	8	1.9	4.6%
903	Wheeling; WV	USA	North America	7	1.5	3.3%
904	Rovereto	Italy	Europe	7	1.8	4.3%
905	St. George; UT	USA	North America	7	1.5	3.5%
906	Des Moines; IA	USA	North America	7	1.5	3.5%
907	Birigui	Brazil	South America	7	1.7	4.1%
908	Bozeman; MT	USA	North America	7	1.6	3.8%
909	Tarbes	France	Europe	7	1.4	3.2%
910	Odessa; TX	USA	North America	7	1.6	3.9%
911	Williamsburg; VA	USA	North America	7	1.6	3.9%
912	Egg Harbor Township; NJ	USA	North America	7	2.0	5.2%
913	Soissons	France	Europe	7	1.5	3.1%
914	Bergerac	France	Europe	7	1.7	3.7%
915	Viareggio	Italy	Europe	7	1.7	4.5%
916	Al Khabra	Saudi Arabia	Asia	7	1.7	4.1%
917	Tecuala	Mexico	South America	7	1.6	3.9%
918	Parma	Italy	Europe	7	1.6	3.9%
919	Red Deer; AB	Canada	North America	7	1.7	4.3%
920	Fall River; MA	USA	North America	7	1.6	4.0%
921	Petersburg; VA	USA	North America	7	1.5	3.5%
922	Fayetteville; NC	USA	North America	7	1.5	3.5%
923	Augusta; GA	USA	North America	7	1.4	2.9%
924	Angoulême	France	Europe	7	1.3	2.9%
925	Sarzana	Italy	Europe	7	1.4	3.3%
926	Avila	Spain	Europe	7	1.7	4.4%
927	Chalon-sur-Saône	France	Europe	7	1.3	2.7%
928	Las Cruces; NM	USA	North America	7	1.4	3.1%
929	Carcassonne	France	Europe	7	1.6	4.0%
930	Amstetten	Austria	Europe	7	1.4	3.2%
931	Persan	France	Europe	7	1.3	3.1%
932	Binghamton; NY	USA	North America	7	1.5	3.3%
933	Wilkes-Barre; PA	USA	North America	7	1.8	4.3%
934	Aix-les-Bains	France	Europe	7	1.2	2.6%
935	Martigues	France	Europe	7	1.3	2.9%
936	Avignon	France	Europe	7	1.2	2.4%
937	Cleveland; TN	USA	North America	7	1.3	3.1%
938	San Bonifacio	Italy	Europe	7	1.3	2.9%
939	Lakeland; FL	USA	North America	7	1.4	3.1%
940	Roanne	France	Europe	7	1.4	3.0%
941	Harlingen; TX	USA	North America	7	1.5	3.6%
942	Cassino	Italy	Europe	7	1.2	2.9%
943	Huesca	Spain	Europe	7	1.5	3.7%
944	Metz	France	Europe	7	1.2	2.7%
945	Middelburg	Netherlands	Europe	7	1.6	3.9%
946	Dundalk	Ireland	Europe	7	1.3	2.8%
947	Laval	France	Europe	7	1.2	2.5%
948	Pueblo; CO	USA	North America	7	1.4	3.3%
949	Béziers	France	Europe	7	1.3	3.0%
950	Sandefjord	Norway	Europe	6	1.2	2.7%
951	Belfort	France	Europe	6	1.1	2.4%
952	Brindisi	Italy	Europe	6	1.4	3.3%
953	Bolu	Turkey	Europe	6	1.6	4.0%
954	Corpus Christi; TX	USA	North America	6	1.4	3.1%
955	Livorno	Italy	Europe	6	1.5	3.7%
956	Angers	France	Europe	6	1.3	3.1%
957	Beloit; WI	USA	North America	6	1.4	3.4%
958	Piacenza	Italy	Europe	6	1.2	2.9%
959	Montauban	France	Europe	6	1.3	2.9%
960	Saintes	France	Europe	6	1.3	2.8%

## APPENDICES 2: GLOBAL ALL CITY RANKING

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Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
961	Vicenza	Italy	Europe	6	1.1	2.3%
962	Saginaw; MI	USA	North America	6	1.4	3.4%
963	Spartanburg; SC	USA	North America	6	1.3	3.1%
964	Braga	Portugal	Europe	6	1.2	2.9%
965	Rockford; IL	USA	North America	6	1.2	2.6%
966	Erkelenz	Germany	Europe	6	1.1	2.3%
967	Andover	UK	Europe	6	1.3	3.1%
968	Moulins	France	Europe	6	1.2	2.6%
969	Appleton; WI	USA	North America	6	1.3	2.8%
970	Ferrara	Italy	Europe	6	1.2	2.9%
971	Pistoia	Italy	Europe	6	1.2	2.8%
972	Elyria; OH	USA	North America	6	1.2	2.8%
973	Canton; OH	USA	North America	6	1.1	2.5%
974	Green Bay; WI	USA	North America	6	1.3	3.1%
975	Montélimar	France	Europe	6	1.6	4.0%
976	Almazora	Spain	Europe	6	1.2	2.7%
977	Montijo	Portugal	Europe	6	1.0	2.4%
978	Wichita; KS	USA	North America	6	1.3	2.7%
979	Youngstown; OH	USA	North America	6	1.2	2.8%
980	Telford	UK	Europe	6	1.0	2.3%
981	Ancenis	France	Europe	6	1.1	2.5%
982	Payerne	Switzerland	Europe	6	1.2	2.7%
983	Arras	France	Europe	6	1.1	2.3%
984	Troyes	France	Europe	6	1.2	2.7%
985	Slagelse	Denmark	Europe	6	1.2	2.7%
986	Andria	Italy	Europe	6	1.3	3.5%
987	Bourg-en-Bresse	France	Europe	6	1.1	2.5%
988	Kecskemét	Hungary	Europe	6	1.1	2.6%
989	Béthune	France	Europe	6	1.1	2.4%
990	Sierre	Switzerland	Europe	6	1.2	3.0%
991	Craigavon	UK	Europe	6	1.2	2.9%
992	Texarkana; TX	USA	North America	6	1.1	2.2%
993	Mestre	Italy	Europe	6	1.1	2.4%
994	Cholet	France	Europe	6	1.1	2.4%
995	Mullingar	Ireland	Europe	5	1.3	3.3%
996	Baytown; TX	USA	North America	5	1.0	2.1%
997	Terni	Italy	Europe	5	1.2	2.8%
998	Springfield; IL	USA	North America	5	1.2	2.6%
999	Topeka; KS	USA	North America	5	1.3	3.2%
1000	Vesoul	France	Europe	5	1.0	2.1%
1001	Minatitlan	Mexico	South America	5	1.3	3.1%
1002	Nairyah	Saudi Arabia	Asia	5	1.4	3.5%
1003	Vitré	France	Europe	5	1.0	2.1%
1004	Udine	Italy	Europe	5	1.1	2.8%
1005	Amilly	France	Europe	5	1.1	2.6%
1006	Kalamazoo; MI	USA	North America	5	1.0	2.2%
1007	Fort Pierce; FL	USA	North America	5	1.2	2.8%
1008	St. Catharines; ON	Canada	North America	5	1.2	2.8%
1009	Grosseto	Italy	Europe	5	1.1	2.5%
1010	Novara	Italy	Europe	5	1.0	2.4%
1011	Saint-Quentin	France	Europe	5	1.1	2.4%
1012	Texas City; TX	USA	North America	5	1.0	2.4%
1013	Vanderbijlpark	South Africa	Africa	5	1.0	2.5%
1014	Cambrai	France	Europe	5	1.0	2.3%
1015	Coimbra	Portugal	Europe	5	1.0	2.2%
1016	Guingamp	France	Europe	5	1.0	2.4%
1017	Forli	Italy	Europe	5	1.2	2.9%
1018	Cesena	Italy	Europe	5	1.1	2.9%
1019	Figueres	Spain	Europe	5	1.3	3.3%
1020	Tarragona	Spain	Europe	5	1.1	2.5%

Table A2: Global All City Ranking (continued)

RANK	CITY	COUNTRY	CONTINENT	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE
1021	Sherman; TX	USA	North America	5	1.0	2.3%
1022	Kenosha; WI	USA	North America	5	1.0	2.1%
1023	Châteauroux	France	Europe	5	1.0	2.2%
1024	Borgomanero	Italy	Europe	5	1.1	2.8%
1025	Cremona	Italy	Europe	5	1.0	2.3%
1026	Jerez	Spain	Europe	5	1.1	2.8%
1027	Beaune	France	Europe	5	1.0	2.3%
1028	Cocoa; FL	USA	North America	5	0.9	2.3%
1029	Cumberland; MD	USA	North America	5	1.1	2.6%
1030	Montluçon	France	Europe	4	1.0	2.3%
1031	Bristol; TN	USA	North America	4	1.0	2.4%
1032	Viseu	Portugal	Europe	4	0.9	2.1%
1033	Landivisiau	France	Europe	4	1.0	2.3%
1034	Athens; AL	USA	North America	4	0.9	2.0%
1035	Greensboro; NC	USA	North America	4	0.9	2.2%
1036	Kennewick-Pasco-Richland; WA	USA	North America	4	0.8	1.8%
1037	Bangor; ME	USA	North America	4	1.0	2.4%
1038	Abbeville	France	Europe	4	1.0	2.3%
1039	Homécourt	France	Europe	4	1.0	2.5%
1040	Verdun	France	Europe	4	0.8	2.0%
1041	Peoria; IL	USA	North America	4	0.8	1.8%
1042	Morlaix	France	Europe	4	0.8	2.0%
1043	Utica; NY	USA	North America	4	0.8	2.0%
1044	Irvine	UK	Europe	4	0.8	2.1%
1045	Alençon	France	Europe	4	0.8	1.7%
1046	Châtelleraut	France	Europe	4	0.8	2.0%
1047	Abilene; TX	USA	North America	3	0.8	1.7%
1048	Casale Monferrato	Italy	Europe	3	0.8	1.9%
1049	Forbach	France	Europe	3	0.8	1.9%
1050	Wichita Falls; TX	USA	North America	3	0.7	1.7%
1051	Chivasso	Italy	Europe	3	0.7	1.7%
1052	Vercelli	Italy	Europe	3	0.7	1.8%
1053	Vila Nova de Famalicão	Portugal	Europe	3	0.7	1.5%
1054	High Point; NC	USA	North America	3	0.7	1.8%
1055	Parkersburg; WV	USA	North America	3	0.6	1.4%
1056	Cavaillon	France	Europe	3	0.6	1.5%
1057	Sens	France	Europe	3	0.7	1.6%
1058	Asti	Italy	Europe	3	0.6	1.4%
1059	Tortona	Italy	Europe	3	0.6	1.5%
1060	Châlons-sur-Champagne	France	Europe	3	0.6	1.4%
1061	Remiremont	France	Europe	2	0.6	1.3%
1062	Nules	Spain	Europe	2	0.5	1.2%
1063	Ludwigsfelde	Germany	Europe	2	0.4	1.0%
1064	Gioia del Colle	Italy	Europe	2	0.5	1.5%

# APPENDICES 3.1: UK CITY RANKING

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Table A3.1: UK City Ranking

RANK	CITY	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE	TOTAL COST PER DRIVER	TOTAL COST TO THE CITY
1	London	73	13.9	12.7%	£1,911	£6242m
2	Manchester	39	6.7	9.9%	£1,136	£233m
3	Aberdeen	35	6.3	12.3%	£1,331	£138m
4	Birmingham	34	5.9	8.5%	£990	£407m
5	Edinburgh	31	5.4	9.8%	£1,009	£225m
6	Guildford	29	4.5	8.6%	£812	£44m
7	Luton	29	5.2	10.7%	£964	£72m
8	Bournemouth	27	5.5	10.8%	£1,019	£84m
9	Hull	27	4.8	9.4%	£970	£109m
10	Bristol	27	4.7	8.8%	£845	£154m
11	Glasgow	27	4.2	5.9%	£766	£219m
12	Reading	26	4.2	8.3%	£836	£53m
13	Cambridge	26	4.3	8.6%	£834	£39m
14	Leeds	25	4.2	6.6%	£764	£245m
15	Exeter	25	4.6	9.8%	£926	£46m
16	Newport	24	3.9	7.4%	£722	£44m
17	Ipswich	24	4.2	8.1%	£810	£46m
18	Southampton	24	4.0	7.8%	£748	£74m
19	Coventry	24	4.0	7.1%	£767	£99m
20	Leicester	24	3.8	7.5%	£745	£92m
21	Warrington	24	4.0	7.1%	£730	£62m
22	Chelmsford	23	3.8	7.4%	£722	£50m
23	Winchester	23	4.4	9.1%	£799	£37m
24	Stoke-on-Trent	23	3.8	7.2%	£746	£80m
25	Newcastle upon Tyne	23	4.0	6.5%	£761	£89m
26	Royal Leamington Spa	23	3.5	6.7%	£694	£41m
27	Belfast	23	4.0	7.6%	£856	£103m
28	Saint Neots	23	3.5	6.5%	£674	£9m
29	Cardiff	23	4.3	9.4%	£939	£134m
30	Cheltenham	22	3.6	7.5%	£721	£37m
31	Stevenage	21	3.1	5.5%	£588	£21m
32	Sheffield	21	3.6	6.4%	£699	£161m
33	Farnborough	21	3.4	6.7%	£693	£25m
34	Chester	21	3.5	7.2%	£706	£100m
35	Liverpool	21	4.2	8.4%	£940	£194m
36	Wigan	20	3.6	7.6%	£755	£103m
37	Portsmouth	20	3.5	7.2%	£699	£60m
38	Northampton	20	3.4	6.9%	£697	£62m
39	Nottingham	19	3.2	6.2%	£664	£84m
40	Colchester	19	3.4	7.1%	£702	£50m
41	Shrewsbury	19	3.6	7.5%	£725	£94m
42	Milton Keynes	18	2.8	5.4%	£568	£56m
43	Worcester	18	3.3	6.8%	£648	£27m
44	Dundee	18	3.5	7.1%	£762	£53m
45	Londonderry	17	3.6	8.0%	£917	£37m
46	Brighton and Hove	17	3.2	6.8%	£786	£96m
47	Swansea	17	3.0	5.7%	£597	£62m
48	Durham	17	2.8	6.0%	£577	£129m
49	Rochester	16	2.8	5.8%	£609	£65m
50	Plymouth	16	3.1	6.8%	£708	£77m
51	Swindon	16	2.5	4.8%	£520	£46m
52	Preston	16	2.9	5.7%	£570	£33m
53	Derby	15	2.5	5.1%	£543	£56m
54	Doncaster	15	2.8	6.0%	£583	£74m
55	Tamworth	14	2.3	4.6%	£505	£16m
56	Crawley	14	2.4	5.2%	£558	£24m
57	Ellesmere Port	14	2.6	5.7%	£565	£90m
58	Blackpool	14	3.0	7.3%	£689	£44m
59	Inverness	14	2.8	6.2%	£607	£62m
60	Bishop's Stortford	14	2.3	4.7%	£492	£28m

Table A3.1: UK City Ranking (continued)

RANK	CITY	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE	TOTAL COST PER DRIVER	TOTAL COST TO THE CITY
61	Folkestone	14	3.0	7.2%	£737	£35m
62	Gloucester	14	2.2	4.6%	£487	£52m
63	Mansfield	13	2.4	5.0%	£530	£26m
64	Wrexham	12	2.2	4.6%	£493	£28m
65	Wellingborough	12	2.2	4.9%	£499	£16m
66	Blackburn	12	2.3	5.1%	£502	£29m
67	Burnley	12	2.6	5.6%	£563	£21m
68	Kettering	11	2.1	4.8%	£485	£19m
69	Darlington	11	2.0	4.6%	£485	£23m
70	Bathgate	11	1.7	3.2%	£398	£29m
71	Pentir	11	2.1	4.5%	£467	£25m
72	Dunfermline	10	1.8	3.7%	£411	£66m
73	Daventry	10	2.0	4.2%	£440	£14m
74	Ashford	10	1.7	3.7%	£415	£20m
75	Basingstoke	10	1.7	3.6%	£394	£27m
76	Rugby	10	1.8	4.0%	£424	£18m
77	Deganwy	9	2.0	4.8%	£449	£23m
78	Peterborough	9	1.6	3.5%	£400	£30m
79	Stirling	9	1.6	3.6%	£401	£15m
80	Bridgend	8	1.6	3.9%	£407	£24m
81	Kilmarnock	8	1.6	3.7%	£415	£22m
82	Newry	8	1.6	3.7%	£408	£14m
83	Falkirk	8	1.5	3.2%	£360	£25m
84	Andover	6	1.3	3.1%	£340	£16m
85	Telford	6	1.0	2.3%	£291	£19m
86	Craigavon	6	1.2	2.9%	£322	£12m
87	Irvine	4	0.8	2.1%	£255	£16m

## APPENDICES 3.2: ENGLISH CITY RANKING

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Table A3.2: English City Ranking

RANK	CITY	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE	TOTAL COST PER DRIVER	TOTAL COST TO THE CITY
1	London	73	13.9	12.7%	£1,911	£6242m
2	Manchester	39	6.7	9.9%	£1,136	£233m
3	Birmingham	34	5.9	8.5%	£990	£407m
4	Guildford	29	4.5	8.6%	£812	£44m
5	Luton	29	5.2	10.7%	£964	£72m
6	Bournemouth	27	5.5	10.8%	£1,019	£84m
7	Hull	27	4.8	9.4%	£970	£109m
8	Bristol	27	4.7	8.8%	£845	£154m
9	Reading	26	4.2	8.3%	£836	£53m
10	Cambridge	26	4.3	8.6%	£834	£39m
11	Leeds	25	4.2	6.6%	£764	£245m
12	Exeter	25	4.6	9.8%	£926	£46m
13	Ipswich	24	4.2	8.1%	£810	£46m
14	Southampton	24	4.0	7.8%	£748	£74m
15	Coventry	24	4.0	7.1%	£767	£99m
16	Leicester	24	3.8	7.5%	£745	£92m
17	Warrington	24	4.0	7.1%	£730	£62m
18	Chelmsford	23	3.8	7.4%	£722	£50m
19	Winchester	23	4.4	9.1%	£799	£37m
20	Stoke-on-Trent	23	3.8	7.2%	£746	£80m
21	Newcastle upon Tyne	23	4.0	6.5%	£761	£89m
22	Royal Leamington Spa	23	3.5	6.7%	£694	£41m
23	Saint Neots	23	3.5	6.5%	£674	£9m
24	Cheltenham	22	3.6	7.5%	£721	£37m
25	Stevenage	21	3.1	5.5%	£588	£21m
26	Sheffield	21	3.6	6.4%	£699	£161m
27	Farnborough	21	3.4	6.7%	£693	£25m
28	Chester	21	3.5	7.2%	£706	£100m
29	Liverpool	21	4.2	8.4%	£940	£194m
30	Wigan	20	3.6	7.6%	£755	£103m
31	Portsmouth	20	3.5	7.2%	£699	£60m
32	Northampton	20	3.4	6.9%	£697	£62m
33	Nottingham	19	3.2	6.2%	£664	£84m
34	Colchester	19	3.4	7.1%	£702	£50m
35	Shrewsbury	19	3.6	7.5%	£725	£94m
36	Milton Keynes	18	2.8	5.4%	£568	£56m
37	Worcester	18	3.3	6.8%	£648	£27m
38	Brighton and Hove	17	3.2	6.8%	£786	£96m
39	Durham	17	2.8	6.0%	£577	£129m
40	Rochester	16	2.8	5.8%	£609	£65m
41	Plymouth	16	3.1	6.8%	£708	£77m
42	Swindon	16	2.5	4.8%	£520	£46m
43	Preston	16	2.9	5.7%	£570	£33m
44	Derby	15	2.5	5.1%	£543	£56m
45	Doncaster	15	2.8	6.0%	£583	£74m
46	Tamworth	14	2.3	4.6%	£505	£16m
47	Crawley	14	2.4	5.2%	£558	£24m
48	Ellesmere Port	14	2.6	5.7%	£565	£90m
49	Blackpool	14	3.0	7.3%	£689	£44m
50	Bishop's Stortford	14	2.3	4.7%	£492	£28m
51	Folkestone	14	3.0	7.2%	£737	£35m
52	Gloucester	14	2.2	4.6%	£487	£52m
53	Mansfield	13	2.4	5.0%	£530	£26m
54	Wellingborough	12	2.2	4.9%	£499	£16m
55	Blackburn	12	2.3	5.1%	£502	£29m
56	Burnley	12	2.6	5.6%	£563	£21m
57	Kettering	11	2.1	4.8%	£485	£19m
58	Darlington	11	2.0	4.6%	£485	£23m
59	Daventry	10	2.0	4.2%	£440	£14m
60	Ashford	10	1.7	3.7%	£415	£20m

Table A3.2: English City Ranking (continued)

RANK	CITY	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE	TOTAL COST PER DRIVER	TOTAL COST TO THE CITY
61	Basingstoke	10	1.7	3.6%	£394	£27m
62	Rugby	10	1.8	4.0%	£424	£18m
63	Peterborough	9	1.6	3.5%	£400	£30m
64	Andover	6	1.3	3.1%	£340	£16m
65	Telford	6	1.0	2.3%	£291	£19m



## APPENDICES 3.3: WELSH CITY RANKING

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Table A3.3: Welsh City Ranking

RANK	CITY	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE	TOTAL COST PER DRIVER	TOTAL COST TO THE CITY
1	Newport	24	3.9	7.4%	£722	£44m
2	Cardiff	23	4.3	9.4%	£939	£134m
3	Swansea	17	3.0	5.7%	£597	£62m
4	Wrexham	12	2.2	4.6%	£493	£28m
5	Pentir	11	2.1	4.5%	£467	£25m
6	Deganwy	9	2.0	4.8%	£449	£23m
7	Bridgend	8	1.6	3.9%	£407	£24m

## APPENDICES 3.4: SCOTTISH CITY RANKING

**Table A3.4: Scottish City Ranking**

RANK	CITY	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE	TOTAL COST PER DRIVER	TOTAL COST TO THE CITY
1	Aberdeen	35	6.3	12.3%	£1,331	£138m
2	Edinburgh	31	5.4	9.8%	£1,009	£225m
3	Glasgow	27	4.2	5.9%	£766	£219m
4	Dundee	18	3.5	7.1%	£762	£53m
5	Inverness	14	2.8	6.2%	£607	£62m
6	Bathgate	11	1.7	3.2%	£398	£29m
7	Dunfermline	10	1.8	3.7%	£411	£66m
8	Stirling	9	1.6	3.6%	£401	£15m
9	Kilmarnock	8	1.6	3.7%	£415	£22m
10	Falkirk	8	1.5	3.2%	£360	£25m
11	Irvine	4	0.8	2.1%	£255	£16m

## APPENDICES 3.5: NORTHERN IRISH CITY RANKING

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**Table A3.5: Northern Irish City Ranking**

RANK	CITY	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE	TOTAL COST PER DRIVER	TOTAL COST TO THE CITY
1	Belfast	23	4.0	7.6%	£856	£103m
2	Londonderry	17	3.6	8.0%	£917	£37m
3	Newry	8	1.6	3.7%	£408	£14m
4	Craigavon	6	1.2	2.9%	£322	£12m

# APPENDICES 4: US CITY RANKING

Table A4: US City Ranking

RANK	CITY	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE	TOTAL COST PER DRIVER	TOTAL COST TO THE CITY
1	Los Angeles; CA	104	18.6	12.7%	\$2,408	\$9680m
2	New York; NY	89	17.4	12.8%	\$2,533	\$16949m
3	San Francisco; CA	83	14.4	12.8%	\$1,996	\$2535m
4	Atlanta; GA	71	12.2	10.0%	\$1,861	\$3140m
5	Miami; FL	65	11.8	8.7%	\$1,762	\$3576m
6	Washington; DC	61	10.5	11.3%	\$1,694	\$2963m
7	Dallas; TX	59	9.9	6.6%	\$1,509	\$2904m
8	Boston; MA	58	10.2	13.4%	\$1,759	\$2864m
9	Chicago; IL	57	10.1	10.2%	\$1,643	\$5158m
10	Seattle; WA	55	9.6	12.6%	\$1,590	\$1995m
11	Houston; TX	52	8.5	7.1%	\$1,374	\$2478m
12	Portland; OR	47	7.7	10.4%	\$1,358	\$1017m
13	Austin; TX	47	8.0	11.9%	\$1,453	\$810m
14	San Diego; CA	46	7.5	9.8%	\$1,345	\$1412m
15	Minneapolis; MN	40	6.4	6.9%	\$1,109	\$1191m
16	Stamford; CT	39	7.1	13.8%	\$1,421	\$67m
17	Philadelphia; PA	38	6.8	7.9%	\$1,236	\$2522m
18	Tacoma; WA	37	6.4	10.0%	\$1,163	\$92m
19	Phoenix; AZ	37	6.0	5.7%	\$1,062	\$1466m
20	Baton Rouge; LA	36	6.1	10.6%	\$1,196	\$271m
21	Denver; CO	36	6.4	8.3%	\$1,182	\$1150m
22	Santa Barbara; CA	36	6.2	12.7%	\$1,417	\$101m
23	Nashville; TN	34	5.8	11.4%	\$1,308	\$517m
24	Detroit; MI	33	5.9	6.1%	\$1,062	\$1537m
25	Pittsburgh; PA	33	5.6	11.0%	\$1,272	\$944m
26	Concord; CA	33	5.0	8.8%	\$958	\$228m
27	Columbia; MD	32	5.2	9.7%	\$1,046	\$42m
28	Orlando; FL	32	6.1	7.1%	\$1,124	\$637m
29	Sacramento; CA	28	4.8	7.4%	\$952	\$609m
30	Everett; WA	27	4.7	9.4%	\$1,031	\$43m
31	Tampa; FL	27	4.4	6.9%	\$923	\$932m
32	San Antonio; TX	27	4.5	6.1%	\$906	\$580m
33	Baltimore; MD	26	4.7	6.9%	\$958	\$815m
34	New Orleans; LA	26	4.5	7.0%	\$969	\$355m
35	Fairfield; CA	26	4.8	9.9%	\$962	\$42m
36	Dublin; CA	26	4.7	9.5%	\$1,003	\$17m
37	North Charleston; SC	25	3.5	6.4%	\$747	\$28m
38	Escondido; CA	25	3.9	7.3%	\$819	\$37m
39	Woodbridge; VA	24	5.1	11.1%	\$1,204	\$2m
40	Ann Arbor; MI	24	3.8	6.3%	\$810	\$101m
41	Cincinnati; OH	24	4.1	6.6%	\$896	\$575m
42	Charlotte; NC	23	3.9	7.1%	\$878	\$442m
43	Lowell; MA	23	4.1	8.3%	\$985	\$38m
44	Louisville; KY	23	3.9	7.2%	\$920	\$363m
45	Framingham; MA	23	3.8	7.5%	\$858	\$23m
46	Norfolk; VA	23	4.1	6.9%	\$918	\$80m
47	Milwaukee; WI	23	4.1	5.7%	\$856	\$474m
48	Bridgeport; CT	23	4.3	9.2%	\$1,053	\$357m
49	Columbus; OH	22	3.6	5.7%	\$799	\$445m
50	Waterbury; CT	22	4.7	10.4%	\$1,208	\$86m
51	St. Louis; MO	22	3.4	4.3%	\$725	\$625m
52	Las Vegas; NV	22	4.4	7.5%	\$1,022	\$715m
53	Danbury; CT	21	3.6	7.2%	\$871	\$53m
54	Dana Point; CA	21	4.8	11.4%	\$1,183	\$17m
55	Memphis; TN	21	3.9	6.3%	\$872	\$347m
56	New Haven; CT	21	4.0	8.7%	\$1,031	\$223m
57	Jacksonville; FL	21	3.5	5.4%	\$783	\$323m
58	Davis; CA	21	4.1	7.9%	\$833	\$22m
59	Charleston; SC	20	3.4	7.0%	\$876	\$195m
60	Providence; RI	20	3.6	6.1%	\$817	\$382m

Table A4: US City Ranking (continued)

RANK	CITY	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE	TOTAL COST PER DRIVER	TOTAL COST TO THE CITY
61	Hampton; VA	20	3.5	6.8%	\$884	£47m
62	Clearwater; FL	19	3.7	6.1%	\$853	£39m
63	Wilmington; NC	19	3.4	6.9%	\$860	£83m
64	Lawrence; MA	19	3.2	6.4%	\$774	£21m
65	Cleveland; OH	19	3.1	4.5%	\$706	£520m
66	Kansas City; MO	19	3.3	4.2%	\$715	£439m
67	Wilmington; DE	19	3.6	6.3%	\$819	£24m
68	Hartford; CT	19	3.6	5.9%	\$809	£291m
69	Oceanside; CA	19	4.1	8.8%	\$899	£54m
70	Chattanooga; TN	18	3.1	5.9%	\$749	£115m
71	Indianapolis; IN	18	3.1	5.0%	\$732	£431m
72	Raleigh; NC	18	3.1	6.0%	\$756	£271m
73	Birmingham; AL	17	2.8	4.9%	\$686	£205m
74	Oxnard; CA	16	3.4	7.2%	\$817	£92m
75	El Paso; TX	16	3.9	7.9%	\$918	£235m
76	Fredericksburg; VA	16	3.5	8.3%	\$917	£47m
77	Salt Lake City; UT	16	2.8	5.3%	\$696	£242m
78	Buffalo; NY	16	2.9	6.2%	\$812	£319m
79	Sarasota; FL	16	3.0	5.3%	\$712	£206m
80	Colorado Springs; CO	16	3.0	6.1%	\$790	£177m
81	Lexington; KY	15	2.8	5.9%	\$740	£91m
82	Oklahoma City; OK	15	2.8	5.3%	\$691	£239m
83	Stockton; CA	15	2.7	6.0%	\$734	£85m
84	Salinas; CA	14	2.9	6.4%	\$782	£40m
85	Vallejo; CA	14	2.8	6.6%	\$786	£46m
86	Joliet; IL	14	2.6	5.2%	\$628	£29m
87	Vacaville; CA	14	3.2	7.3%	\$802	£26m
88	Allentown; PA	13	2.5	4.8%	\$586	£148m
89	Grand Rapids; MI	13	2.3	4.8%	\$620	£136m
90	Portland; ME	13	2.5	5.6%	\$712	£62m
91	Albany; NY	13	2.3	4.4%	\$599	£142m
92	Spokane; WA	13	2.4	4.7%	\$621	£99m
93	Frederick; MD	13	2.1	4.2%	\$583	£32m
94	McAllen; TX	13	2.4	5.0%	\$641	£135m
95	Springfield; MA	13	2.5	5.0%	\$665	£153m
96	Missoula; MT	13	2.6	6.1%	\$657	£24m
97	Albuquerque; NM	13	2.4	4.7%	\$643	£189m
98	King of Prussia; PA	12	2.1	4.5%	\$597	£5m
99	Columbia; SC	12	2.2	4.3%	\$588	£126m
100	Ocean Township; NJ	12	2.8	7.0%	\$880	£5m
101	Bakersfield; CA	12	2.3	5.0%	\$643	£108m
102	Toms River; NJ	12	2.5	5.6%	\$646	£21m
103	Hammond; IN	12	2.4	4.8%	\$612	£17m
104	Gary; IN	12	2.6	5.7%	\$660	£20m
105	Salem; OR	12	2.3	5.0%	\$620	£54m
106	Worcester; MA	12	2.4	4.9%	\$656	£121m
107	Brownsville; TX	12	2.7	6.6%	\$796	£50m
108	Tuscaloosa; AL	12	2.5	4.9%	\$594	£30m
109	Gainesville; FL	12	2.5	5.7%	\$720	£53m
110	Greenville; SC	12	2.1	4.5%	\$599	£95m
111	Omaha; NE	11	2.0	3.9%	\$560	£162m
112	Toledo; OH	11	2.2	4.3%	\$593	£122m
113	Harrisburg; PA	11	2.0	3.8%	\$516	£95m
114	Boise; ID	11	2.2	5.1%	\$626	£54m
115	Knoxville; TN	11	2.1	4.8%	\$613	£143m
116	Lafayette; IN	11	2.3	5.4%	\$664	£38m
117	New Braunfels; TX	11	2.2	5.1%	\$595	£13m
118	Olympia; WA	11	2.2	4.9%	\$601	£44m
119	Reno; NV	11	2.0	4.0%	\$549	£85m
120	Denton; TX	11	2.3	5.2%	\$641	£88m

Table A4: US City Ranking (continued)

RANK	CITY	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE	TOTAL COST PER DRIVER	TOTAL COST TO THE CITY
121	Dayton; OH	11	2.0	3.6%	\$563	£168m
122	Nashua; NH	11	2.2	5.2%	\$681	£60m
123	Richmond; VA	11	2.2	4.0%	\$581	£218m
124	North Chicago; IL	11	1.8	3.6%	\$511	£3m
125	Elgin; IL	10	2.0	4.4%	\$574	£20m
126	Tucson; AZ	10	2.0	4.0%	\$569	£191m
127	Mobile; AL	10	2.1	4.4%	\$592	£74m
128	Ogden; UT	10	2.0	4.4%	\$587	£106m
129	Little Rock; AR	10	1.7	3.4%	\$498	£87m
130	Melbourne; FL	10	2.0	4.5%	\$596	£20m
131	Niagara Falls; NY	10	2.7	6.8%	\$964	£21m
132	Charlottesville; VA	10	2.0	4.6%	\$615	£23m
133	Akron; OH	10	2.0	4.2%	\$582	£134m
134	Plant City; FL	10	1.8	3.8%	\$508	£6m
135	Tulsa; OK	10	1.8	3.4%	\$504	£133m
136	Brick; NJ	10	2.0	4.7%	\$577	£17m
137	Scranton; PA	10	1.8	3.7%	\$509	£79m
138	Pensacola; FL	10	1.9	4.1%	\$586	£77m
139	Durham; NC	10	1.7	3.7%	\$544	£79m
140	Fort Myers; FL	9	1.9	4.1%	\$576	£14m
141	Lansing; MI	9	2.0	4.7%	\$629	£79m
142	Madison; WI	9	1.6	3.0%	\$470	£83m
143	Portsmouth; NH	9	1.9	4.4%	\$535	£21m
144	Manchester; NH	9	1.9	4.3%	\$557	£35m
145	Montgomery; AL	9	1.8	3.8%	\$536	£53m
146	Buford; GA	9	2.2	5.2%	\$564	£2m
147	Roanoke; VA	9	1.8	3.9%	\$525	£47m
148	Ocala; FL	9	1.9	4.3%	\$547	£35m
149	Evansville; IN	9	2.0	4.3%	\$533	£50m
150	Jackson; MS	9	1.8	4.0%	\$563	£74m
151	Tallahassee; FL	9	1.9	4.3%	\$584	£57m
152	Beaumont; TX	9	1.8	3.9%	\$529	£31m
153	Lancaster; CA	9	2.1	5.4%	\$662	£66m
154	Schenectady; NY	9	1.7	4.0%	\$544	£13m
155	Fargo; ND	9	1.9	4.5%	\$599	£47m
156	Hagerstown; MD	9	2.1	5.6%	\$721	£51m
157	Delano; CA	9	1.8	4.2%	\$552	£6m
158	Rochester; NY	9	1.8	3.6%	\$514	£150m
159	Santa Fe; NM	9	2.0	4.6%	\$590	£23m
160	Flint; MI	9	1.9	4.6%	\$578	£81m
161	Columbus; GA	9	1.7	3.8%	\$539	£52m
162	Daytona Beach; FL	9	2.1	4.7%	\$608	£16m
163	Winston-Salem; NC	9	1.7	3.3%	\$487	£77m
164	Auburn; CA	9	1.9	4.4%	\$545	£8m
165	Fresno; CA	9	1.8	3.9%	\$546	£119m
166	Billings; MT	9	1.8	4.1%	\$556	£27m
167	Bountiful; UT	9	1.8	4.3%	\$544	£8m
168	New Bedford; MA	9	1.8	4.3%	\$575	£34m
169	Patchogue; NY	9	1.7	3.8%	\$541	£3m
170	Butte; MT	8	2.0	4.8%	\$597	£9m
171	Lodi; CA	8	1.9	4.5%	\$549	£13m
172	Syracuse; NY	8	1.7	3.9%	\$527	£86m
173	Waco; TX	8	1.9	4.2%	\$543	£35m
174	Port St. Lucie; FL	8	1.8	4.2%	\$557	£84m
175	Meriden; CT	8	1.7	4.1%	\$542	£13m
176	Erie; PA	8	1.7	4.1%	\$565	£45m
177	Gresham; OR	8	1.9	4.8%	\$644	£25m
178	Stuart; FL	8	1.7	4.0%	\$527	£4m
179	Easton; PA	8	1.9	4.2%	\$517	£5m
180	New London; CT	8	2.0	4.8%	\$607	£7m

## APPENDICES 4: US CITY RANKING

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Table A4: US City Ranking (continued)

RANK	CITY	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE	TOTAL COST PER DRIVER	TOTAL COST TO THE CITY
181	South Bend; IN	8	1.6	3.1%	\$452	£48m
182	Amarillo; TX	8	1.6	3.4%	\$469	£35m
183	Macon; GA	8	1.5	3.3%	\$476	£24m
184	Conroe; TX	8	1.5	3.5%	\$474	£44m
185	Fort Wayne; IN	8	1.6	3.6%	\$483	£61m
186	Naples; FL	8	1.8	4.7%	\$631	£7m
187	Lincoln; NE	8	1.5	3.2%	\$462	£50m
188	Eugene; OR	8	1.5	3.3%	\$476	£49m
189	Shreveport; LA	8	1.5	3.0%	\$468	£55m
190	Wheeling; WV	7	1.5	3.3%	\$454	£16m
191	St. George; UT	7	1.5	3.5%	\$466	£17m
192	Des Moines; IA	7	1.5	3.5%	\$503	£93m
193	Bozeman; MT	7	1.6	3.8%	\$494	£9m
194	Odessa; TX	7	1.6	3.9%	\$514	£24m
195	Williamsburg; VA	7	1.6	3.9%	\$512	£15m
196	Egg Harbor Township; NJ	7	2.0	5.2%	\$630	£1m
197	Fall River; MA	7	1.6	4.0%	\$563	£22m
198	Petersburg; VA	7	1.5	3.5%	\$491	£6m
199	Fayetteville; NC	7	1.5	3.5%	\$487	£58m
200	Augusta; GA	7	1.4	2.9%	\$451	£65m
201	Las Cruces; NM	7	1.4	3.1%	\$464	£23m
202	Binghamton; NY	7	1.5	3.3%	\$462	£29m
203	Wilkes-Barre; PA	7	1.8	4.3%	\$550	£9m
204	Cleveland; TN	7	1.3	3.1%	\$457	£12m
205	Lakeland; FL	7	1.4	3.1%	\$446	£43m
206	Harlingen; TX	7	1.5	3.6%	\$485	£20m
207	Pueblo; CO	7	1.4	3.3%	\$459	£25m
208	Corpus Christi; TX	6	1.4	3.1%	\$450	£54m
209	Beloit; WI	6	1.4	3.4%	\$467	£11m
210	Saginaw; MI	6	1.4	3.4%	\$470	£23m
211	Spartanburg; SC	6	1.3	3.1%	\$463	£33m
212	Rockford; IL	6	1.2	2.6%	\$407	£46m
213	Appleton; WI	6	1.3	2.8%	\$445	£39m
214	Elyria; OH	6	1.2	2.8%	\$424	£10m
215	Canton; OH	6	1.1	2.5%	\$418	£48m
216	Green Bay; WI	6	1.3	3.1%	\$483	£41m
217	Wichita; KS	6	1.3	2.7%	\$439	£81m
218	Youngstown; OH	6	1.2	2.8%	\$443	£72m
219	Texarkana; TX	6	1.1	2.2%	\$374	£11m
220	Baytown; TX	5	1.0	2.1%	\$378	£10m
221	Springfield; IL	5	1.2	2.6%	\$403	£28m
222	Topeka; KS	5	1.3	3.2%	\$487	£29m
223	Kalamazoo; MI	5	1.0	2.2%	\$379	£32m
224	Fort Pierce; FL	5	1.2	2.8%	\$419	£7m
225	Texas City; TX	5	1.0	2.4%	\$382	£15m
226	Sherman; TX	5	1.0	2.3%	\$358	£9m
227	Kenosha; WI	5	1.0	2.1%	\$363	£17m
228	Cocoa; FL	5	0.9	2.3%	\$388	£3m
229	Cumberland; MD	5	1.1	2.6%	\$410	£8m
230	Bristol; TN	4	1.0	2.4%	\$355	£10m
231	Athens; AL	4	0.9	2.0%	\$337	£3m
232	Greensboro; NC	4	0.9	2.2%	\$385	£50m
233	Kennewick-Pasco-Richland; WA	4	0.8	1.8%	\$331	£26m
234	Bangor; ME	4	1.0	2.4%	\$400	£10m
235	Peoria; IL	4	0.8	1.8%	\$324	£35m
236	Utica; NY	4	0.8	2.0%	\$345	£15m
237	Abilene; TX	3	0.8	1.7%	\$322	£13m
238	Wichita Falls; TX	3	0.7	1.7%	\$318	£12m
239	High Point; NC	3	0.7	1.8%	\$334	£22m
240	Parkersburg; WV	3	0.6	1.4%	\$301	£9m

# APPENDICES 5: GERMANY CITY RANKING

Table A5: Germany City Ranking

RANK	CITY	PEAK HOURS SPENT IN CONGESTION	INRIX CONGESTION INDEX	AVERAGE CONGESTION RATE	TOTAL COST PER DRIVER	TOTAL COST TO THE CITY
1	Munich	49	8.5	14.5%	€2,418	€1,990.00
2	Heilbronn	46	9.3	17.9%	€2,581	€143.00
3	Cologne	46	8.3	13.2%	€2,141	€1,180.00
4	Stuttgart	46	8.4	13.6%	€2,121	€680.00
5	Hamburg	41	7.6	13.9%	€2,172	€2,360.00
6	Berlin	40	7.5	12.7%	€2,127	€4,344.00
7	Frankfurt	39	6.5	10.8%	€1,671	€694.00
8	Ruhrgebiet	36	6.8	8.7%	€1,661	€1,458.00
9	Hanover	36	6.7	11.3%	€1,758	€522.00
10	Düsseldorf	34	5.7	10.4%	€1,650	€580.00
11	Würzburg	34	7.0	13.8%	€2,033	€171.00
12	Sindelfingen	31	5.3	10.2%	€1,467	€89.00
13	Karlsruhe	30	6.1	11.9%	€1,792	€323.00
14	Wiesbaden	29	4.7	8.2%	€1,273	€358.00
15	Nuremberg	28	5.3	10.6%	€1,580	€446.00
16	Pforzheim	28	5.7	11.6%	€1,646	€95.00
17	Bonn	28	4.5	8.0%	€1,262	€209.00
18	Freiburg	27	5.6	11.4%	€1,941	€222.00
19	Mannheim	26	4.5	7.6%	€1,256	€225.00
20	Bielefeld	25	4.5	9.1%	€1,418	€112.00
21	Darmstadt	24	3.9	7.6%	€1,129	€53.00
22	Krefeld	24	4.2	8.2%	€1,226	€145.00
23	Wuppertal	24	4.1	7.5%	€1,203	€217.00
24	Regensburg	23	4.2	8.5%	€1,257	€63.00
25	Bremen	21	4.1	8.1%	€1,251	€385.00
26	Dresden	20	4.0	8.4%	€1,308	€390.00
27	Aachen	20	3.8	7.8%	€1,227	€308.00
28	Kassel	20	3.8	8.1%	€1,264	€137.00
29	Chemnitz	19	4.0	8.8%	€1,446	€190.00
30	Lübeck	19	3.9	8.8%	€1,338	€163.00
31	Brunswick	19	3.7	7.7%	€1,226	€155.00
32	Kaiserslautern	18	3.4	7.3%	€1,191	€53.00
33	Wolfsburg	18	3.1	6.0%	€901	€62.00
34	Hagen	17	3.3	6.8%	€1,032	€96.00
35	Mönchengladbach	17	3.3	7.0%	€1,154	€71.00
36	Münster	16	3.1	7.1%	€1,069	€172.00
37	Kiel	16	3.2	6.9%	€1,137	€160.00
38	Koblenz	16	3.0	6.2%	€964	€60.00
39	Ingolstadt	16	2.8	6.1%	€929	€59.00
40	Unna	15	2.9	6.1%	€920	€166.00
41	Leipzig	14	2.7	5.9%	€967	€314.00
42	Potsdam	14	2.5	5.4%	€849	€81.00
43	Augsburg	14	2.5	5.4%	€863	€126.00
44	Siegen	14	2.7	5.8%	€806	€40.00
45	Magdeburg	13	2.4	5.2%	€829	€107.00
46	Ulm	13	2.5	5.1%	€828	€48.00
47	Göttingen	12	2.4	5.5%	€848	€66.00
48	Herford	12	2.3	5.1%	€822	€94.00
49	Paderborn	12	2.4	5.3%	€849	€61.00
50	Saarlouis	11	2.1	4.6%	€769	€13.00
51	Hildesheim	11	2.4	5.5%	€829	€42.00
52	Speyer	11	2.1	4.3%	€734	€17.00
53	Bayreuth	11	2.2	5.1%	€811	€28.00
54	Schweinfurt	11	2.2	4.9%	€767	€20.00
55	Bergkamen	11	2.2	5.0%	€799	€17.00
56	Offenburg	10	1.9	4.0%	€678	€20.00
57	Flensburg	9	2.2	5.3%	€838	€37.00
58	Gera	9	1.8	4.0%	€669	€34.00
59	Fulda	9	1.8	4.2%	€688	€55.00
60	Bergheim	9	1.7	4.0%	€658	€3.00
61	Erkelenz	6	1.1	2.3%	€476	€9.00
62	Ludwigsfelde	2	0.4	1.0%	€297	€5.00





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