TomTom Americas Traffic Index

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TomTom Traffic Index

It is our mission to get drivers to their destinations faster, safer and greener.

Over the years we have invested in new ideas and technologies with the aim of bringing significant benefits to drivers, businesses and society as a whole.

In 2007 we started a groundbreaking initiative that helped us to understand how we could guide drivers in a better way. We set out to build a more precise view of traffic flow over the entire road network to enable us to give drivers more exact route information and arrival times.

With the support of millions of TomTom customers we have captured anonymous travel time information in all the territories where we are active. Rather than relying on theoretical models, we are now able to understand real-life driving patterns by time of day, day of week, time of year and around special events. This initiative is unique in that we are able to capture, evaluate and redistribute vehicle-centric travel information on a global scale.

Over the years we have built the world's largest database of historic travel times and the most detailed and accurate real-time traffic information available. Based on the insights we gained we have developed advanced routing technologies that help millions of drivers get to their destinations faster, safer and with lower emissions of greenhouse gases.

Contrary to popular belief, there are often multiple ways to reach a destination and avoid traffic congestion. Finding the fastest route is a complex task. Now, thanks to advanced routing technologies, motorists can drive with dynamic navigation systems which quickly react and adjust routes to the ever changing traffic situations.

By helping drivers to find a faster route we can also demonstrate that the total available capacity on the road network increases. If a small percentage of drivers uses different (and faster) routes, congestion can be alleviated across the entire road network, thereby benefitting all drivers.

By offering a more accurate analysis of traffic flows, we help identify and pinpoint congestion trouble spots more effectively. And by routing traffic away from congested areas we can play a key role in easing congestion in cities and urban areas.

Our historical archive of real travel times has paved the way for the creation of the TomTom Traffic Index – the most accurate and comprehensive barometer of traffic congestion in major cities all over the world.

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About the TomTom Traffic Index

With the publication of the TomTom Traffic Index we are aiming to provide the general public, industry and policy makers with unique and unbiased information about congestion levels in urban areas*.

The methodology that is used in this report measures travel times* during the whole day and during peak periods* and compares these with measured travel times during non-congested periods (free flow*). The difference is expressed as a total average percentage increase in travel time*. We take into account local roads, arterials and highways. All data is based on actual GPS based measurements and for each city* the sample size is expressed in total number of measured miles for the period.

As well as assigning and ranking the overall congestion levels of over 180 cities* on different continents, the report evaluates the congestion levels* in cities at different times of the day and on different days of the week.

Individual city reports include more detailed information such as the most congested day*, time delay per year for commuters* and congestion levels on highways* and local roads.

To download a copy of the report go to: www.tomtom.com/trafficindex.

If you would like to know more about TomTom's trafflc solutions, please contact your local TomTom office or sales@tomtom.com.

For questions or comments about this report, please contact us at trafficindex@tomtom.com.

Note: words with a * are explained on the keywords page at the end of the report.

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Americas

Americas congestion level

20%

Top 3 - Increasing congestion

	Previous Congestion	Increase in congestion	Current
Riverside	15%	3	18%
Vancouver	32%	3	35%
Boston	18%	3	21%

Top 3 - Decreasing congestion

	Previous Congestion	Decrease in congestion	Current
Mexico City	60%	6	54%
Honolulu	31%	2	29%
New Orleans	24%	2	22%

Top 10 cities

Rank	CI change	City	Country	Congestion	Morning peak	Evening peak	Highways	Non-Highways
1	▲	Rio de Janeiro	Brazil	55%	84%	115%	45%	58%
2	▼	Mexico City	Mexico	54%	88%	89%	43%	60%
3	---	São Paulo	Brazil	46%	66%	95%	30%	52%
4	▲	Los Angeles	United States	36%	55%	75%	34%	38%
5	▲	Vancouver	Canada	35%	55%	70%	21%	39%
6	▲	San Francisco	United States	32%	48%	66%	28%	36%
7	▼	Honolulu	United States	29%	48%	65%	23%	33%
8	▲	Seattle	United States	27%	47%	68%	23%	31%
9	▲	Toronto	Canada	27%	48%	63%	22%	31%
10	▲	San José	United States	26%	50%	68%	19%	34%

Comparison per quarter

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Americas

Rank	CI change	City	Country	Congestion	Morning peak	Evening peak	Highways	Non-Highways
1	▲	Rio de Janeiro	Brazil	55%	84%	115%	45%	58%
2	▼	Mexico City	Mexico	54%	88%	89%	43%	60%
3	---	São Paulo	Brazil	46%	66%	95%	30%	52%
4	▲	Los Angeles	United States	36%	55%	75%	34%	38%
5	▲	Vancouver	Canada	35%	55%	70%	21%	39%
6	▲	San Francisco	United States	32%	48%	66%	28%	36%
7	▼	Honolulu	United States	29%	48%	65%	23%	33%
8	▲	Seattle	United States	27%	47%	68%	23%	31%
9	▲	Toronto	Canada	27%	48%	63%	22%	31%
10	▲	San José	United States	26%	50%	68%	19%	34%
11	▲	New York	United States	26%	41%	50%	21%	31%
12	▲	Ottawa	Canada	26%	48%	61%	19%	29%
13	▲	Montreal	Canada	26%	46%	58%	23%	27%
14	▲	Miami	United States	24%	42%	50%	12%	32%
15	---	Washington	United States	24%	41%	54%	17%	29%
16	▲	Portland	United States	22%	31%	58%	18%	25%
17	▼	New Orleans	United States	22%	30%	51%	16%	25%
18	▲	Calgary	Canada	22%	38%	49%	18%	24%
19	▲	Chicago	United States	22%	35%	51%	17%	27%
20	▲	Quebec	Canada	22%	44%	61%	16%	28%
21	▲	Tampa	United States	22%	30%	50%	14%	25%
22	▲	Boston	United States	21%	38%	50%	16%	27%
23	▲	Houston	United States	21%	42%	61%	18%	25%
24	▲	Tucson	United States	21%	25%	36%	4%	27%
25	▲	Austin	United States	21%	40%	57%	17%	22%
26	▲	San Diego	United States	21%	36%	48%	12%	31%
27	▲	Atlanta	United States	21%	41%	53%	15%	26%
28	▲	Las Vegas	United States	21%	19%	36%	9%	24%
29	▲	Orlando	United States	21%	25%	44%	9%	29%
30	▲	Edmonton	Canada	20%	28%	39%	9%	24%
31	▲	Philadelphia	United States	20%	33%	44%	14%	25%
32	▲	Denver	United States	19%	32%	45%	14%	22%
33	▲	Nashville	United States	18%	36%	49%	12%	29%
34	▲	Riverside	United States	18%	31%	39%	13%	26%
35	▲	Virginia Beach	United States	18%	24%	40%	11%	22%
36	▲	Sacramento	United States	17%	28%	42%	9%	23%
37	▼	Pittsburgh	United States	17%	28%	38%	10%	24%
38	▲	Baltimore	United States	17%	30%	42%	11%	25%
39	▲	Dallas-Fort Worth	United States	16%	29%	41%	12%	20%
40	▲	Charlotte	United States	16%	26%	45%	9%	23%
41	▲	Providence	United States	15%	25%	37%	9%	23%
42	▲	Minneapolis	United States	15%	29%	40%	12%	19%
43	▲	San Antonio	United States	15%	28%	41%	8%	22%
44	---	Memphis	United States	14%	20%	29%	7%	20%
45	▲	Buffalo	United States	14%	16%	29%	7%	22%
46	▲	Hartford	United States	14%	24%	38%	11%	19%
47	▲	Oklahoma City	United States	14%	20%	33%	7%	23%
48	---	Salt Lake City	United States	14%	20%	33%	4%	21%
49	---	Columbus	United States	14%	23%	37%	7%	22%
50	▲	Jacksonville	United States	13%	25%	35%	5%	23%
51	▲	Rochester	United States	13%	18%	28%	5%	17%
52	▲	Detroit	United States	13%	21%	35%	8%	17%
53	▼	Louisville	United States	13%	18%	32%	5%	23%
54	▲	Cincinnati	United States	13%	22%	38%	8%	20%
55	▲	Phoenix	United States	13%	26%	31%	6%	18%
56	▲	Raleigh	United States	13%	21%	33%	4%	20%
57	▲	St. Louis	United States	13%	21%	30%	7%	20%
58	▲	Milwaukee	United States	13%	26%	31%	9%	16%
59	---	Birmingham	United States	12%	23%	33%	5%	25%
60	---	Richmond	United States	10%	13%	20%	4%	17%

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Rank	CI change	City	Country	Congestion	Morning peak	Evening peak	Highways	Non-Highways
61	▲	Cleveland	United States	10%	18%	22%	4%	18%
62	---	Indianapolis	United States	10%	17%	28%	3%	18%
63	---	Kansas City	United States	9%	16%	23%	4%	17%

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Atlanta

Congestion level

21%

Ranking

Ranking of city compared to all cities in the report	27/63
Congestion level on highways	15%
Congestion level on non-highways	26%
Delay per hour driven in peak period	28 min
Delay per year with a 30 min commute	73 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 17 Oct 2013
Total network length	30 331 mi
Total network length highways	543 mi
Total network length non-highways	29 788 mi
Total vehicle miles	26 641 203 mi

Delay per hour driven in peak period

Comparison per quarter

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Austin

Congestion level

21%

Ranking

Ranking of city compared to all cities in the report	25/63
Congestion level on highways	17%
Congestion level on non-highways	22%
Delay per hour driven in peak period	30 min
Delay per year with a 30 min commute	76 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 22 Nov 2013
Total network length	9 169 mi
Total network length highways	107 mi
Total network length non-highways	9 062 mi
Total vehicle miles	5 429 671 mi

Delay per hour driven in peak period

Comparison per quarter

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Baltimore

Congestion level

17%

Ranking

Ranking of city compared to all cities in the report	38/63
Congestion level on highways	11%
Congestion level on non-highways	25%
Delay per hour driven in peak period	21 min
Delay per year with a 30 min commute	59 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 11 Oct 2013
Total network length	11 210 mi
Total network length highways	438 mi
Total network length non-highways	10 771 mi
Total vehicle miles	15 176 187 mi

Delay per hour driven in peak period

Comparison per quarter

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Birmingham

Congestion level

12%

Ranking

Ranking of city compared to all cities in the report	59/63
Congestion level on highways	5%
Congestion level on non-highways	25%
Delay per hour driven in peak period	17 min
Delay per year with a 30 min commute	50 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 17 Jan 2013
Total network length	7 690 mi
Total network length highways	200 mi
Total network length non-highways	7 490 mi
Total vehicle miles	3 130 158 mi

Delay per hour driven in peak period

Comparison per quarter

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Boston

Congestion level

21%

Ranking

Ranking of city compared to all cities in the report	22/63
Congestion level on highways	16%
Congestion level on non-highways	27%
Delay per hour driven in peak period	26 min
Delay per year with a 30 min commute	69 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Tue 17 Dec 2013
Total network length	33 034 mi
Total network length highways	871 mi
Total network length non-highways	32 162 mi
Total vehicle miles	31 215 607 mi

Delay per hour driven in peak period

Comparison per quarter

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Buffalo

Congestion level

14%

Ranking

Ranking of city compared to all cities in the report	45/63
Congestion level on highways	7%
Congestion level on non-highways	22%
Delay per hour driven in peak period	14 min
Delay per year with a 30 min commute	43 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 12 Dec 2013
Total network length	5 208 mi
Total network length highways	152 mi
Total network length non-highways	5 055 mi
Total vehicle miles	2 730 181 mi

Delay per hour driven in peak period

Comparison per quarter

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Calgary

Congestion level

22%

Ranking

Ranking of city compared to all cities in the report	18/63
Congestion level on highways	18%
Congestion level on non-highways	24%
Delay per hour driven in peak period	27 min
Delay per year with a 30 min commute	71 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Tue 10 Dec 2013
Total network length	6 814 mi
Total network length highways	139 mi
Total network length non-highways	6 675 mi
Total vehicle miles	4 025 578 mi

Delay per hour driven in peak period

Comparison per quarter

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Charlotte

Congestion level

16%

Ranking

Ranking of city compared to all cities in the report	40/63
Congestion level on highways	9%
Congestion level on non-highways	23%
Delay per hour driven in peak period	22 min
Delay per year with a 30 min commute	61 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Tue 26 Nov 2013
Total network length	7 842 mi
Total network length highways	245 mi
Total network length non-highways	7 597 mi
Total vehicle miles	6 978 255 mi

Delay per hour driven in peak period

Comparison per quarter

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Chicago

Congestion level

22%

Ranking

Ranking of city compared to all cities in the report	19/63
Congestion level on highways	17%
Congestion level on non-highways	27%
Delay per hour driven in peak period	26 min
Delay per year with a 30 min commute	69 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 18 Apr 2013
Total network length	27 864 mi
Total network length highways	627 mi
Total network length non-highways	27 237 mi
Total vehicle miles	24 785 556 mi

Delay per hour driven in peak period

Comparison per quarter

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Cincinnati

Congestion level

13%

Ranking

Ranking of city compared to all cities in the report	54/63
Congestion level on highways	8%
Congestion level on non-highways	20%
Delay per hour driven in peak period	19 min
Delay per year with a 30 min commute	55 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 6 Dec 2013
Total network length	10 170 mi
Total network length highways	319 mi
Total network length non-highways	9 852 mi
Total vehicle miles	6 939 291 mi

Delay per hour driven in peak period

Comparison per quarter

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Cleveland

Congestion level

10%

Ranking

Ranking of city compared to all cities in the report	61/63
Congestion level on highways	4%
Congestion level on non-highways	18%
Delay per hour driven in peak period	12 min
Delay per year with a 30 min commute	38 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 1 Feb 2013
Total network length	15 242 mi
Total network length highways	503 mi
Total network length non-highways	14 738 mi
Total vehicle miles	11 404 019 mi

Delay per hour driven in peak period

Comparison per quarter

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Columbus

Congestion level

14%

Ranking

Ranking of city compared to all cities in the report	49/63
Congestion level on highways	7%
Congestion level on non-highways	22%
Delay per hour driven in peak period	19 min
Delay per year with a 30 min commute	55 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 25 Jan 2013
Total network length	9 739 mi
Total network length highways	302 mi
Total network length non-highways	9 437 mi
Total vehicle miles	7 173 676 mi

Delay per hour driven in peak period

Comparison per quarter

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Dallas-Fort Worth

Congestion level

16%

Ranking

Ranking of city compared to all cities in the report	39/63
Congestion level on highways	12%
Congestion level on non-highways	20%
Delay per hour driven in peak period	21 min
Delay per year with a 30 min commute	59 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Sat 7 Dec 2013
Total network length	57 202 mi
Total network length highways	1 634 mi
Total network length non-highways	55 568 mi
Total vehicle miles	28 529 608 mi

Delay per hour driven in peak period

Comparison per quarter

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Denver

Congestion level

19%

Ranking

Ranking of city compared to all cities in the report	32/63
Congestion level on highways	14%
Congestion level on non-highways	22%
Delay per hour driven in peak period	23 min
Delay per year with a 30 min commute	63 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Wed 4 Dec 2013
Total network length	19 024 mi
Total network length highways	440 mi
Total network length non-highways	18 585 mi
Total vehicle miles	8 067 717 mi

Delay per hour driven in peak period

Comparison per quarter

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Detroit

Congestion level

13%

Ranking

Ranking of city compared to all cities in the report	52/63
Congestion level on highways	8%
Congestion level on non-highways	17%
Delay per hour driven in peak period	17 min
Delay per year with a 30 min commute	50 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Sat 14 Dec 2013
Total network length	32 895 mi
Total network length highways	514 mi
Total network length non-highways	32 382 mi
Total vehicle miles	12 513 295 mi

Delay per hour driven in peak period

Comparison per quarter

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Edmonton

Congestion level

20%

Ranking

Ranking of city compared to all cities in the report	30/63
Congestion level on highways	9%
Congestion level on non-highways	24%
Delay per hour driven in peak period	20 min
Delay per year with a 30 min commute	57 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Tue 19 Nov 2013
Total network length	5 292 mi
Total network length highways	142 mi
Total network length non-highways	5 149 mi
Total vehicle miles	2 676 019 mi

Delay per hour driven in peak period

Comparison per quarter

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Hartford

Congestion level

14%

Ranking

Ranking of city compared to all cities in the report	46/63
Congestion level on highways	11%
Congestion level on non-highways	19%
Delay per hour driven in peak period	19 min
Delay per year with a 30 min commute	55 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Tue 17 Dec 2013
Total network length	3 886 mi
Total network length highways	171 mi
Total network length non-highways	3 715 mi
Total vehicle miles	4 119 458 mi

Delay per hour driven in peak period

Comparison per quarter

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Honolulu

Congestion level

29%

Ranking

Ranking of city compared to all cities in the report	7/63
Congestion level on highways	23%
Congestion level on non-highways	33%
Delay per hour driven in peak period	34 min
Delay per year with a 30 min commute	83 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 5 Dec 2013
Total network length	2 666 mi
Total network length highways	113 mi
Total network length non-highways	2 553 mi
Total vehicle miles	691 887 mi

Delay per hour driven in peak period

Comparison per quarter

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Houston

Congestion level

21%

Ranking

Ranking of city compared to all cities in the report	23/63
Congestion level on highways	18%
Congestion level on non-highways	25%
Delay per hour driven in peak period	31 min
Delay per year with a 30 min commute	78 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 19 Sep 2013
Total network length	24 836 mi
Total network length highways	751 mi
Total network length non-highways	24 085 mi
Total vehicle miles	14 490 145 mi

Delay per hour driven in peak period

Comparison per quarter

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Indianapolis

Congestion level

10%

Ranking

Ranking of city compared to all cities in the report	62/63
Congestion level on highways	3%
Congestion level on non-highways	18%
Delay per hour driven in peak period	14 min
Delay per year with a 30 min commute	43 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Mon 16 Dec 2013
Total network length	10 476 mi
Total network length highways	269 mi
Total network length non-highways	10 207 mi
Total vehicle miles	7 212 250 mi

Delay per hour driven in peak period

Comparison per quarter

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Jacksonville

Congestion level

13%

Ranking

Ranking of city compared to all cities in the report	50/63
Congestion level on highways	5%
Congestion level on non-highways	23%
Delay per hour driven in peak period	18 min
Delay per year with a 30 min commute	53 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Wed 18 Sep 2013
Total network length	9 626 mi
Total network length highways	260 mi
Total network length non-highways	9 366 mi
Total vehicle miles	6 080 318 mi

Delay per hour driven in peak period

Comparison per quarter

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Kansas City

Congestion level

9%

Ranking

Ranking of city compared to all cities in the report	63/63
Congestion level on highways	4%
Congestion level on non-highways	17%
Delay per hour driven in peak period	12 min
Delay per year with a 30 min commute	38 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 21 Feb 2013
Total network length	16 528 mi
Total network length highways	579 mi
Total network length non-highways	15 949 mi
Total vehicle miles	5 206 680 mi

Delay per hour driven in peak period

Comparison per quarter

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Las Vegas

Congestion level

21%

Ranking

Ranking of city compared to all cities in the report	28/63
Congestion level on highways	9%
Congestion level on non-highways	24%
Delay per hour driven in peak period	18 min
Delay per year with a 30 min commute	53 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 21 Nov 2013
Total network length	14 420 mi
Total network length highways	137 mi
Total network length non-highways	14 283 mi
Total vehicle miles	4 124 346 mi

Delay per hour driven in peak period

Comparison per quarter

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Los Angeles

Congestion level

36%

Ranking

Ranking of city compared to all cities in the report	4/63
Congestion level on highways	34%
Congestion level on non-highways	38%
Delay per hour driven in peak period	39 min
Delay per year with a 30 min commute	90 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 14 Nov 2013
Total network length	42 218 mi
Total network length highways	1 197 mi
Total network length non-highways	41 021 mi
Total vehicle miles	26 625 023 mi

Delay per hour driven in peak period

Comparison per quarter

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Louisville

Congestion level

13%

Ranking

Ranking of city compared to all cities in the report	53/63
Congestion level on highways	5%
Congestion level on non-highways	23%
Delay per hour driven in peak period	15 min
Delay per year with a 30 min commute	46 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 6 Dec 2013
Total network length	8 421 mi
Total network length highways	262 mi
Total network length non-highways	8 159 mi
Total vehicle miles	4 615 856 mi

Delay per hour driven in peak period

Comparison per quarter

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Memphis

Congestion level

14%

Ranking

Ranking of city compared to all cities in the report	44/63
Congestion level on highways	7%
Congestion level on non-highways	20%
Delay per hour driven in peak period	15 min
Delay per year with a 30 min commute	46 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Mon 14 Jan 2013
Total network length	10 097 mi
Total network length highways	158 mi
Total network length non-highways	9 938 mi
Total vehicle miles	3 371 104 mi

Delay per hour driven in peak period

Comparison per quarter

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Mexico City

Congestion level

54%

Ranking

Ranking of city compared to all cities in the report	2/63
Congestion level on highways	43%
Congestion level on non-highways	60%
Delay per hour driven in peak period	53 min
Delay per year with a 30 min commute	107 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Wed 11 Dec 2013
Total network length	32 982 mi
Total network length highways	605 mi
Total network length non-highways	32 377 mi
Total vehicle miles	1 590 756 mi

Delay per hour driven in peak period

Comparison per quarter

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Miami

Congestion level

24%

Ranking

Ranking of city compared to all cities in the report	14/63
Congestion level on highways	12%
Congestion level on non-highways	32%
Delay per hour driven in peak period	27 min
Delay per year with a 30 min commute	71 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 15 Feb 2013
Total network length	32 490 mi
Total network length highways	571 mi
Total network length non-highways	31 919 mi
Total vehicle miles	18 125 205 mi

Delay per hour driven in peak period

Comparison per quarter

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Milwaukee

Congestion level

13%

Ranking

Ranking of city compared to all cities in the report	58/63
Congestion level on highways	9%
Congestion level on non-highways	16%
Delay per hour driven in peak period	17 min
Delay per year with a 30 min commute	50 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Sun 8 Dec 2013
Total network length	10 301 mi
Total network length highways	177 mi
Total network length non-highways	10 124 mi
Total vehicle miles	3 593 504 mi

Delay per hour driven in peak period

Comparison per quarter

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Minneapolis

Congestion level

15%

Ranking

Ranking of city compared to all cities in the report	42/63
Congestion level on highways	12%
Congestion level on non-highways	19%
Delay per hour driven in peak period	21 min
Delay per year with a 30 min commute	59 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Wed 4 Dec 2013
Total network length	16 522 mi
Total network length highways	684 mi
Total network length non-highways	15 839 mi
Total vehicle miles	9 999 133 mi

Delay per hour driven in peak period

Comparison per quarter

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Montreal

Congestion level

26%

Ranking

Ranking of city compared to all cities in the report	13/63
Congestion level on highways	23%
Congestion level on non-highways	27%
Delay per hour driven in peak period	31 min
Delay per year with a 30 min commute	78 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 8 Feb 2013
Total network length	13 400 mi
Total network length highways	500 mi
Total network length non-highways	12 900 mi
Total vehicle miles	17 607 100 mi

Delay per hour driven in peak period

Comparison per quarter

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Nashville

Congestion level

18%

Ranking

Ranking of city compared to all cities in the report	33/63
Congestion level on highways	12%
Congestion level on non-highways	29%
Delay per hour driven in peak period	26 min
Delay per year with a 30 min commute	69 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 29 Mar 2013
Total network length	6 806 mi
Total network length highways	231 mi
Total network length non-highways	6 575 mi
Total vehicle miles	5 231 406 mi

Delay per hour driven in peak period

Comparison per quarter

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New Orleans

Congestion level

22%

Ranking

Ranking of city compared to all cities in the report	17/63
Congestion level on highways	16%
Congestion level on non-highways	25%
Delay per hour driven in peak period	25 min
Delay per year with a 30 min commute	67 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 8 Feb 2013
Total network length	6 520 mi
Total network length highways	65 mi
Total network length non-highways	6 455 mi
Total vehicle miles	2 140 434 mi

Delay per hour driven in peak period

Comparison per quarter

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New York

Congestion level

26%

Ranking

Ranking of city compared to all cities in the report	11/63
Congestion level on highways	21%
Congestion level on non-highways	31%
Delay per hour driven in peak period	27 min
Delay per year with a 30 min commute	71 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Tue 26 Nov 2013
Total network length	58 647 mi
Total network length highways	2 131 mi
Total network length non-highways	56 516 mi
Total vehicle miles	65 969 966 mi

Delay per hour driven in peak period

Comparison per quarter

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Oklahoma City

Congestion level

14%

Ranking

Ranking of city compared to all cities in the report	47/63
Congestion level on highways	7%
Congestion level on non-highways	23%
Delay per hour driven in peak period	16 min
Delay per year with a 30 min commute	48 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 5 Dec 2013
Total network length	10 934 mi
Total network length highways	332 mi
Total network length non-highways	10 602 mi
Total vehicle miles	3 079 776 mi

Delay per hour driven in peak period

Comparison per quarter

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Orlando

Congestion level

21%

Ranking

Ranking of city compared to all cities in the report	29/63
Congestion level on highways	9%
Congestion level on non-highways	29%
Delay per hour driven in peak period	21 min
Delay per year with a 30 min commute	59 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 14 Feb 2013
Total network length	13 264 mi
Total network length highways	286 mi
Total network length non-highways	12 977 mi
Total vehicle miles	11 798 581 mi

Delay per hour driven in peak period

Comparison per quarter

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Ottawa

Congestion level

26%

Ranking

Ranking of city compared to all cities in the report	12/63
Congestion level on highways	19%
Congestion level on non-highways	29%
Delay per hour driven in peak period	33 min
Delay per year with a 30 min commute	81 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Wed 27 Feb 2013
Total network length	4 309 mi
Total network length highways	106 mi
Total network length non-highways	4 203 mi
Total vehicle miles	3 689 940 mi

Delay per hour driven in peak period

Comparison per quarter

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Philadelphia

Congestion level

20%

Ranking

Ranking of city compared to all cities in the report	31/63
Congestion level on highways	14%
Congestion level on non-highways	25%
Delay per hour driven in peak period	23 min
Delay per year with a 30 min commute	63 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Sun 8 Dec 2013
Total network length	19 002 mi
Total network length highways	493 mi
Total network length non-highways	18 509 mi
Total vehicle miles	21 679 757 mi

Delay per hour driven in peak period

Comparison per quarter

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Phoenix

Congestion level

13%

Ranking

Ranking of city compared to all cities in the report	55/63
Congestion level on highways	6%
Congestion level on non-highways	18%
Delay per hour driven in peak period	17 min
Delay per year with a 30 min commute	50 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 8 Mar 2013
Total network length	34 360 mi
Total network length highways	485 mi
Total network length non-highways	33 875 mi
Total vehicle miles	10 740 393 mi

Delay per hour driven in peak period

Comparison per quarter

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Pittsburgh

Congestion level

17%

Ranking

Ranking of city compared to all cities in the report	37/63
Congestion level on highways	10%
Congestion level on non-highways	24%
Delay per hour driven in peak period	20 min
Delay per year with a 30 min commute	57 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 25 Jan 2013
Total network length	13 543 mi
Total network length highways	288 mi
Total network length non-highways	13 255 mi
Total vehicle miles	6 680 957 mi

Delay per hour driven in peak period

Comparison per quarter

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Portland

Congestion level

22%

Ranking

Ranking of city compared to all cities in the report	16/63
Congestion level on highways	18%
Congestion level on non-highways	25%
Delay per hour driven in peak period	27 min
Delay per year with a 30 min commute	71 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 28 Jun 2013
Total network length	15 782 mi
Total network length highways	238 mi
Total network length non-highways	15 544 mi
Total vehicle miles	5 715 698 mi

Delay per hour driven in peak period

Comparison per quarter

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Providence

Congestion level

15%

Ranking

Ranking of city compared to all cities in the report	41/63
Congestion level on highways	9%
Congestion level on non-highways	23%
Delay per hour driven in peak period	18 min
Delay per year with a 30 min commute	53 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Sat 9 Feb 2013
Total network length	5 482 mi
Total network length highways	146 mi
Total network length non-highways	5 336 mi
Total vehicle miles	2 933 561 mi

Delay per hour driven in peak period

Comparison per quarter

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Quebec

Congestion level

22%

Ranking

Ranking of city compared to all cities in the report	20/63
Congestion level on highways	16%
Congestion level on non-highways	28%
Delay per hour driven in peak period	33 min
Delay per year with a 30 min commute	81 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Mon 9 Dec 2013
Total network length	3 638 mi
Total network length highways	157 mi
Total network length non-highways	3 482 mi
Total vehicle miles	2 275 673 mi

Delay per hour driven in peak period

Comparison per quarter

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Raleigh

Congestion level

13%

Ranking

Ranking of city compared to all cities in the report	56/63
Congestion level on highways	4%
Congestion level on non-highways	20%
Delay per hour driven in peak period	16 min
Delay per year with a 30 min commute	48 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 25 Jan 2013
Total network length	6 893 mi
Total network length highways	166 mi
Total network length non-highways	6 727 mi
Total vehicle miles	6 533 604 mi

Delay per hour driven in peak period

Comparison per quarter

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Richmond

Congestion level

10%

Ranking

Ranking of city compared to all cities in the report	60/63
Congestion level on highways	4%
Congestion level on non-highways	17%
Delay per hour driven in peak period	10 min
Delay per year with a 30 min commute	32 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 25 Jan 2013
Total network length	8 646 mi
Total network length highways	306 mi
Total network length non-highways	8 341 mi
Total vehicle miles	5 242 497 mi

Delay per hour driven in peak period

Comparison per quarter

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Rio de Janeiro

Congestion level

55%

Ranking

Ranking of city compared to all cities in the report	1/63
Congestion level on highways	45%
Congestion level on non-highways	58%
Delay per hour driven in peak period	59 min
Delay per year with a 30 min commute	114 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 17 May 2013
Total network length	12 197 mi
Total network length highways	122 mi
Total network length non-highways	12 076 mi
Total vehicle miles	3 476 850 mi

Delay per hour driven in peak period

Comparison per quarter

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Riverside

Congestion level

18%

Ranking

Ranking of city compared to all cities in the report	34/63
Congestion level on highways	13%
Congestion level on non-highways	26%
Delay per hour driven in peak period	21 min
Delay per year with a 30 min commute	59 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 21 Nov 2013
Total network length	13 781 mi
Total network length highways	360 mi
Total network length non-highways	13 422 mi
Total vehicle miles	5 527 095 mi

Delay per hour driven in peak period

Comparison per quarter

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Rochester

Congestion level

13%

Ranking

Ranking of city compared to all cities in the report	51/63
Congestion level on highways	5%
Congestion level on non-highways	17%
Delay per hour driven in peak period	14 min
Delay per year with a 30 min commute	43 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 8 Feb 2013
Total network length	3 235 mi
Total network length highways	63 mi
Total network length non-highways	3 171 mi
Total vehicle miles	1 235 124 mi

Delay per hour driven in peak period

Comparison per quarter

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São Paulo

Congestion level

46%

Ranking

Ranking of city compared to all cities in the report	3/63
Congestion level on highways	30%
Congestion level on non-highways	52%
Delay per hour driven in peak period	48 min
Delay per year with a 30 min commute	102 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 22 Nov 2013
Total network length	29 452 mi
Total network length highways	496 mi
Total network length non-highways	28 956 mi
Total vehicle miles	18 894 331 mi

Delay per hour driven in peak period

Comparison per quarter

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Sacramento

Congestion level

17%

Ranking

Ranking of city compared to all cities in the report	36/63
Congestion level on highways	9%
Congestion level on non-highways	23%
Delay per hour driven in peak period	21 min
Delay per year with a 30 min commute	59 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 15 Nov 2013
Total network length	13 351 mi
Total network length highways	168 mi
Total network length non-highways	13 184 mi
Total vehicle miles	4 364 293 mi

Delay per hour driven in peak period

Comparison per quarter

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Salt Lake City

Congestion level

14%

Ranking

Ranking of city compared to all cities in the report	48/63
Congestion level on highways	4%
Congestion level on non-highways	21%
Delay per hour driven in peak period	16 min
Delay per year with a 30 min commute	48 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Tue 3 Dec 2013
Total network length	7 693 mi
Total network length highways	167 mi
Total network length non-highways	7 525 mi
Total vehicle miles	1 908 035 mi

Delay per hour driven in peak period

Comparison per quarter

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San Antonio

Congestion level

15%

Ranking

Ranking of city compared to all cities in the report	43/63
Congestion level on highways	8%
Congestion level on non-highways	22%
Delay per hour driven in peak period	21 min
Delay per year with a 30 min commute	59 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 13 Dec 2013
Total network length	13 347 mi
Total network length highways	391 mi
Total network length non-highways	12 956 mi
Total vehicle miles	6 098 742 mi

Delay per hour driven in peak period

Comparison per quarter

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San Diego

Congestion level

21%

Ranking

Ranking of city compared to all cities in the report	26/63
Congestion level on highways	12%
Congestion level on non-highways	31%
Delay per hour driven in peak period	25 min
Delay per year with a 30 min commute	67 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 25 Jan 2013
Total network length	14 974 mi
Total network length highways	526 mi
Total network length non-highways	14 448 mi
Total vehicle miles	8 434 996 mi

Delay per hour driven in peak period

Comparison per quarter

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San Francisco

Congestion level

32%

Ranking

Ranking of city compared to all cities in the report	6/63
Congestion level on highways	28%
Congestion level on non-highways	36%
Delay per hour driven in peak period	34 min
Delay per year with a 30 min commute	83 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 22 Nov 2013
Total network length	7 595 mi
Total network length highways	255 mi
Total network length non-highways	7 340 mi
Total vehicle miles	5 634 107 mi

Delay per hour driven in peak period

Comparison per quarter

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San José

Congestion level

26%

Ranking

Ranking of city compared to all cities in the report	10/63
Congestion level on highways	19%
Congestion level on non-highways	34%
Delay per hour driven in peak period	35 min
Delay per year with a 30 min commute	84 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Tue 19 Nov 2013
Total network length	11 461 mi
Total network length highways	355 mi
Total network length non-highways	11 106 mi
Total vehicle miles	6 454 558 mi

Delay per hour driven in peak period

Comparison per quarter

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Seattle

Congestion level

27%

Ranking

Ranking of city compared to all cities in the report	8/63
Congestion level on highways	23%
Congestion level on non-highways	31%
Delay per hour driven in peak period	34 min
Delay per year with a 30 min commute	83 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 7 Nov 2013
Total network length	11 578 mi
Total network length highways	306 mi
Total network length non-highways	11 272 mi
Total vehicle miles	5 468 909 mi

Delay per hour driven in peak period

Comparison per quarter

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St. Louis

Congestion level

13%

Ranking

Ranking of city compared to all cities in the report	57/63
Congestion level on highways	7%
Congestion level on non-highways	20%
Delay per hour driven in peak period	15 min
Delay per year with a 30 min commute	46 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 21 Feb 2013
Total network length	13 208 mi
Total network length highways	378 mi
Total network length non-highways	12 830 mi
Total vehicle miles	6 970 969 mi

Delay per hour driven in peak period

Comparison per quarter

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Tampa

Congestion level

22%

Ranking

Ranking of city compared to all cities in the report	21/63
Congestion level on highways	14%
Congestion level on non-highways	25%
Delay per hour driven in peak period	24 min
Delay per year with a 30 min commute	65 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 14 Feb 2013
Total network length	16 962 mi
Total network length highways	203 mi
Total network length non-highways	16 758 mi
Total vehicle miles	10 329 177 mi

Delay per hour driven in peak period

Comparison per quarter

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Toronto

Congestion level

27%

Ranking

Ranking of city compared to all cities in the report	9/63
Congestion level on highways	22%
Congestion level on non-highways	31%
Delay per hour driven in peak period	34 min
Delay per year with a 30 min commute	83 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 8 Feb 2013
Total network length	17 264 mi
Total network length highways	581 mi
Total network length non-highways	16 684 mi
Total vehicle miles	30 448 293 mi

Delay per hour driven in peak period

Comparison per quarter

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Tucson

Congestion level

21%

Ranking

Ranking of city compared to all cities in the report	24/63
Congestion level on highways	4%
Congestion level on non-highways	27%
Delay per hour driven in peak period	19 min
Delay per year with a 30 min commute	55 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Thu 14 Feb 2013
Total network length	7 830 mi
Total network length highways	70 mi
Total network length non-highways	7 760 mi
Total vehicle miles	1 700 981 mi

Delay per hour driven in peak period

Comparison per quarter

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Vancouver

Congestion level

35%

Ranking

Ranking of city compared to all cities in the report	5/63
Congestion level on highways	21%
Congestion level on non-highways	39%
Delay per hour driven in peak period	37 min
Delay per year with a 30 min commute	87 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 15 Nov 2013
Total network length	5 845 mi
Total network length highways	75 mi
Total network length non-highways	5 771 mi
Total vehicle miles	3 950 642 mi

Delay per hour driven in peak period

Comparison per quarter

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Virginia Beach

Congestion level

18%

Ranking

Ranking of city compared to all cities in the report	35/63
Congestion level on highways	11%
Congestion level on non-highways	22%
Delay per hour driven in peak period	20 min
Delay per year with a 30 min commute	57 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Fri 25 Jan 2013
Total network length	9 881 mi
Total network length highways	227 mi
Total network length non-highways	9 654 mi
Total vehicle miles	5 966 637 mi

Delay per hour driven in peak period

Comparison per quarter

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Washington

Congestion level

24%

Ranking

Ranking of city compared to all cities in the report	15/63
Congestion level on highways	17%
Congestion level on non-highways	29%
Delay per hour driven in peak period	28 min
Delay per year with a 30 min commute	73 h

The weekly congestion pattern:

Best and worst peak periods of the week

Most congested specific day	Tue 26 Nov 2013
Total network length	23 677 mi
Total network length highways	636 mi
Total network length non-highways	23 042 mi
Total vehicle miles	31 611 761 mi

Delay per hour driven in peak period

Comparison per quarter

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Evaluated cities

Americas

Rank	City	Country	Congestion Level (%) 24/7	Morning peak	Evening peak	Weekdays	Weekend
1	Rio de Janeiro	Brazil	55	84	115	67	30
2	Mexico City	Mexico	54	88	89	63	33
3	São Paulo	Brazil	46	66	95	54	24
4	Los Angeles	United States	36	55	75	40	23
5	Vancouver	Canada	35	55	70	40	24
6	San Francisco	United States	32	48	66	33	28
7	Honolulu	United States	29	48	65	33	19
8	Seattle	United States	27	47	68	31	15
9	Toronto	Canada	27	48	63	31	16
10	San José	United States	26	50	68	31	14
11	New York	United States	26	41	50	29	19
12	Ottawa	Canada	26	48	61	30	16
13	Montreal	Canada	26	46	58	30	15
14	Miami	United States	24	42	50	27	15
15	Washington	United States	24	41	54	27	15
16	Portland	United States	22	31	58	26	12
17	New Orleans	United States	22	30	51	24	17
18	Calgary	Canada	22	38	49	25	14
19	Chicago	United States	22	35	51	25	13
20	Quebec	Canada	22	44	61	26	13
21	Tampa	United States	22	30	50	24	15
22	Boston	United States	21	38	50	25	12
23	Houston	United States	21	42	61	24	11
24	Tucson	United States	21	25	36	24	15
25	Austin	United States	21	40	57	24	13
26	San Diego	United States	21	36	48	23	14
27	Atlanta	United States	21	41	53	24	11
28	Las Vegas	United States	21	19	36	22	17
29	Orlando	United States	21	25	44	22	15
30	Edmonton	Canada	20	28	39	22	15
31	Philadelphia	United States	20	33	44	23	12
32	Denver	United States	19	32	45	22	10
33	Nashville	United States	18	36	49	21	10
34	Riverside	United States	18	31	39	21	10
35	Virginia Beach	United States	18	24	40	20	12
36	Sacramento	United States	17	28	42	20	11
37	Pittsburgh	United States	17	28	38	20	11
38	Baltimore	United States	17	30	42	20	8
39	Dallas-Fort Worth	United States	16	29	41	18	9
40	Charlotte	United States	16	26	45	18	9
41	Providence	United States	15	25	37	18	9
42	Minneapolis	United States	15	29	40	18	7
43	San Antonio	United States	15	28	41	17	9
44	Memphis	United States	14	20	29	16	10
45	Buffalo	United States	14	16	29	15	12
46	Hartford	United States	14	24	38	17	6
47	Oklahoma City	United States	14	20	33	16	8
48	Salt Lake City	United States	14	20	33	15	9
49	Columbus	United States	14	23	37	16	8
50	Jacksonville	United States	13	25	35	15	7
51	Rochester	United States	13	18	28	15	8
52	Detroit	United States	13	21	35	15	7
53	Louisville	United States	13	18	32	15	8
54	Cincinnati	United States	13	22	38	15	7
55	Phoenix	United States	13	26	31	15	7
56	Raleigh	United States	13	21	33	15	8
57	St. Louis	United States	13	21	30	14	8
58	Milwaukee	United States	13	26	31	15	5
59	Birmingham	United States	12	23	33	15	6
60	Richmond	United States	10	13	20	11	8

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Americas

Rank	City	Country	Congestion Level (%)				
			24/7	Morning peak	Evening peak	Weekdays	Weekend
61	Cleveland	United States	10	18	22	12	6
62	Indianapolis	United States	10	17	28	11	5
63	Kansas City	United States	9	16	23	11	6

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Keywords

Keywords	Definition
Average Free Flow Speed	Measured average road speed during a Free Flow situation.
Average Observed Speeds	Average Observed Speeds within specific time periods.
Cities	TomTom evaluated capital cities as well as cities with a population of over 800 000. Next to the cities that meet these criteria, additional key cities are chosen and added in some countries.
City	See Cities.
Congestion Level	See TomTom Congestion Level.
Delay per hour driven in peak period	Delay in minutes per hour driven during morning and evening peak times compared to Free Flow situations. For example, 22 minutes delay per hour at peak times indicates that a one hour journey driven at Free Flow times will take an additional 22 minutes at peak times.
Delay per year for commuters	See Time delay per year for commuters.
FRC	Functional Road Class, an industry standard that defines different road categories. FRC0 = highways, FRC1 = major roads of high importance, FRC2 = major roads, FRC3 = secondary roads, FRC4 = connecting roads FRC5 = local roads.
Free Flow	See Free Flow situation.
Free Flow condition	See Free Flow situation.
Free Flow situation	A journey made without any delay caused by traffic congestion. This most typically occurs during the night, but can happen at any time of the day.
Free Flow Speed	See Average Free Flow Speed.
Highways	FRC0 and FRC1.
Most congested day	See most congested specific day.
Most congested specific day	The day with the highest Congestion Level.
Non-highways	All FRC classes except FRC0 and FRC1.
Peak hours	See Peak period.
Peak period	Based on real traffic measurements, the busiest one-hour-long period in the morning period and the busiest one-hour-long period in the evening period were determined for every evaluated city.
Road network	In this report all speed measurements on navigable roads within the urban areas contribute to the statistics.
Time delay per year for commuters	Total accumulated delay per year with a 30 minute commute. Based on 230 work days per year and two peak periods per day.
TomTom Congestion Level	Increase in overall travel times when compared to a Free Flow situation. For example, a Congestion Level of 12% corresponds to 12% longer travel times compared to a Free Flow situation.
Total network length	Total length of the evaluated network in miles.
Total network length highways	Total length of the evaluated network in miles for FRC0 and FRC1 only.
Total network length non-highways	Total length of the evaluated network in miles for all FRC classes except FRC0 and FRC1.
Total vehicle miles	Total distance covered by all TomTom user measurements, used for this specific report.
Travel time	TomTom's historic traffic database contains over ten trillion (10×10^{12}) anonymous speed measurements. Theses speed measurements are used to calculate the travel times on individual road segments and entire networks.
Urban area	Geographical area that takes population size and network layout into account. Speed measurements within the defined urban area contribute to the statistics.
Urban network	The road network in an urban area.

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Explanation of tables and figures

Continent or country overview page

Section	Description
Congestion Level	Average Congestion Level across all cities evaluated in the report.
Map of the continent or country	Image of the continent (or country) showing the most congested cities.
Top 3 - increasing congestion	Top 3 cities ranked by the largest increase in the Congestion Level compared to the previous year.
Top 3 - decreasing congestion	Top 3 cities ranked by the largest decrease in the Congestion Level compared to the previous year.
Top 10 cities / evaluated cities	Cities ranked by Congestion Levels.
• Rank	Rank according to Congestion Levels.
• CI change	Change in the Congestion Level compared to one year earlier.
• Congestion	Congestion Level.
• Morning peak	Average Congestion Level during morning peak periods on work days.
• Evening peak	Average Congestion Level during evening peak periods on work days.
• Highways	Average Congestion Level for highways only.
• Non-highways	Average Congestion Level for non-highways only.
Comparison per quarter	Change in Congestion Level over the past quarters.
• Congestion	Average Congestion Level for all the cities evaluated in the report.
• Worst average morning peak	Highest Congestion Level during the 5 morning peak periods (work days) in all cities evaluated in the report. Available in Quarterly reports, not available in Annual reports.
• Worst average evening peak	Highest Congestion Level during the 5 evening peak periods (work days) in all cities evaluated in the report. Available in Quarterly reports, not available in Annual reports.

Pages for cities

Section	Description
Congestion Level	Average Congestion Level across all roads in the city.
Ranking of city compared to all cities in the report	Ranking of the city according to Congestion Level compared to all cities evaluated in the report.
Congestion Level on highways	Congestion Level for highways only.
Congestion Level on non-highways	Congestion Level for non-highways only.
Delay per hour driven in peak period	Delay in minutes per hour driven during morning and evening peak times compared to Free Flow situations. For example, 22 minutes delay per hour at peak times indicates that a one hour journey driven at Free Flow times will take an additional 22 minutes at peak times.
Delay per year with a 30 minute commute	Total accumulated delay per year with a 30 minute commute. Based on 230 work days per year and two peak periods per day.
The weekly congestion pattern	Average Congestion Levels for the 10 peak periods in a week (morning and evening peak hours on 5 working days).
Comparison per quarter	Change in Congestion Level over the past quarters.
• Congestion	Average Congestion Level across the city.
• Worst average morning peak	Highest Congestion Level during the 5 morning peak periods (work days). Available in Quarterly reports, not available in Annual reports.
• Worst average evening peak	Highest Congestion Level during the 5 evening peak periods (work days). Available in Quarterly reports, not available in Annual reports.

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