

HUGSI - Husqvarna Urban Green Space Insights present:

Urban Green Space Report 2024

How green are cities?

About the report

Husqvarna Urban Green Space Insights (HUGSI), is a service from Husqvarna quantifying urban green space in global cities using AI and satellite data. This report aggregates multiple data points captured in 2022 and 2023 to produce the Urban Green Space Report 2024.

Please refer to our website [HUGSI.green](https://hugsi.green) for more information and specific details by identified cities.

City boundaries identified in the report are defined based on an Open Street Map (OSM) boundaries dataset, which is made available here under the Open Database License (ODbL). Population data from Global Human Settlement Layer (GHS-POP) was used to adjust city boundaries, consideration was taken to identify areas where citizens actually reside.

For more information on GHS-POP, please see Schiavina, Marcello; Freire, Sergio; MacManus, Kytt (2019): GHS population grid multitemporal (1975, 1990, 2000, 2015) R2019A. European Commission, Joint Research Centre (JRC) DOI: 10.2905/42E8BE89-54FF-464E-BE7BB-F9E64DA5218
PID: <http://data.europa.eu/89h/0c6b9751-a71f-4062-830b-43c9f432370>

Satellite image data is acquired from the Copernicus project, and it has been modified to establish this report.

For the avoidance of doubt, it should be clarified that HUGSI is not officially endorsed or affiliated with any European Union institution.

Feel free to quote the report, remember to credit us with "HUGSI.green Urban Green Space Report 2024".

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Legal disclaimer: All results are assumptions based on our open methodology and AI-models used. HUGSI Terms of use also apply to this report. hugsi.green/terms-of-use

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Executive summary

Among the 344 cities analyzed, the average proportion of urban green space is 43%. This percentage varies across regions and population density levels, from 25% in South & West Asia to 47% in Europe.

Compared to previous year, cities globally have 63 million square meters less green space — a trend that conflicts with the growing consensus that more urban green space is essential.

However, we do see positive net gains in 87 cities, where more green space was added than removed.

The importance of urban green space is increasingly recognized as research and real-world experience highlight its role in adapting to climate change and extreme weather.

HUGSI, a service from Husqvarna, uses data and insights from satellites and AI to support the greening of cities worldwide. Today, HUGSI is the most comprehensive global data source on urban green space.



The Methodology behind HUGSI

The Husqvarna Urban Green Space Insights (HUGSI) is an AI-powered satellite solution that indicates how green cities are by analyzing their urban areas and how they are developing. Since 2019, HUGSI has conducted annual surveys of a growing number of cities in the world.

With HUGSI we provide cities with data about the current quantity of green space in urban areas. With yearly scans we can share the development over time and through our standardized methodology and global data sets cities are also allowed to benchmark numbers.

Data is derived from analyzing multispectral satellite image data from Sentinel 2, part of the Copernicus-program from the European Space Agency (ESA).

To score high in the index you should have well distributed, high coverage percentage of vegetation of good health within the populated parts of the city.

Trees is awarded twice the value of grass.

HUGSI uses a machine learning model to, based on height, differentiate trees from other vegetation including shrubs. The model is trained on visually labeled dataset in which vegetation over 1m height are classified as trees.

How urban areas are defined

City boundaries in HUGSI are defined based on OSM Boundaries dataset provided by Open Street Map or shared by the cities analyzed. Population data from Global Human Settlement Layer (GHS-POP) is used to adjust the area to analyze within OSM city boundaries. We only take into consideration urban areas where citizens reside.

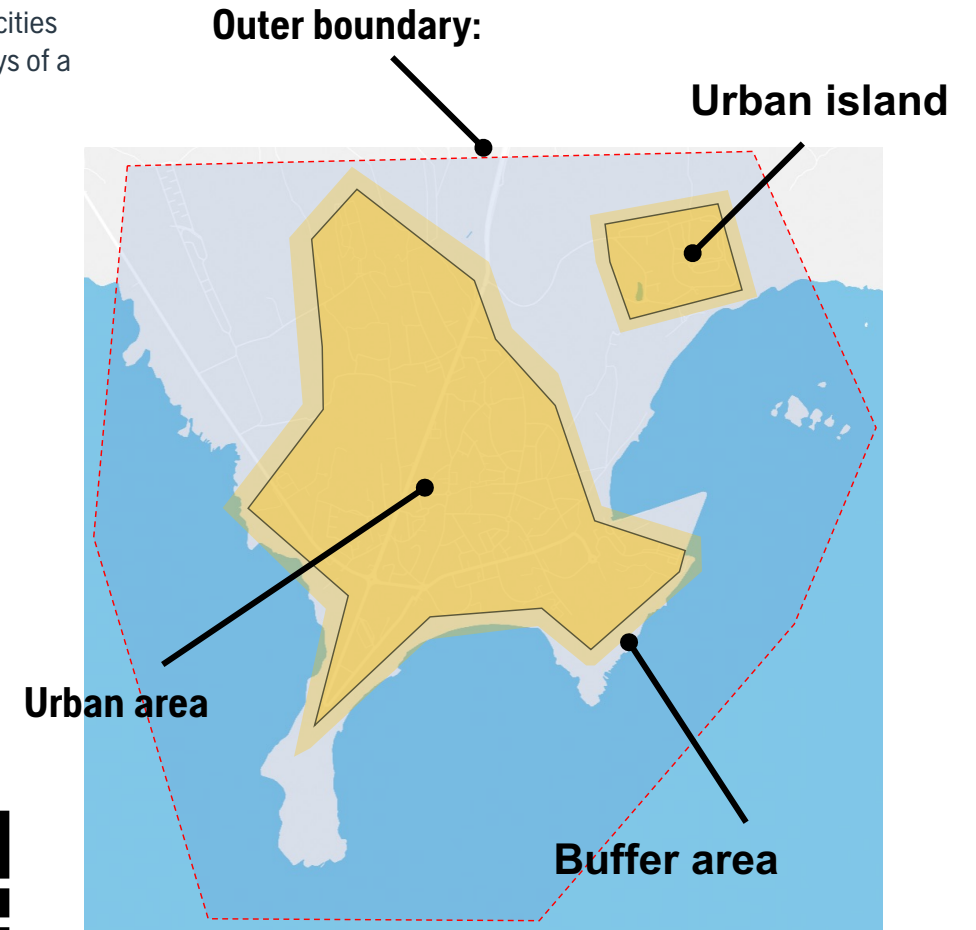
GHS-POP divides a city into grids of 100 by 100 meters and measures average density of population in each grid. Our approach excludes tiles with less than 1000 people per square mile

(3,8 people per 100m by 100m). Islands (smaller areas disconnected from the main body of a city) with more than 5000 people residing are included.

Then, we add a 300m buffer around the filtered boundaries to include surrounding areas. This resulting area is regarded as the urban area for a city which is used followed in all further calculations.

To adjust for different seasonal variations, the cities are analyzed on individual days. By sampling all available data for all cities, we can calculate their greenest day during a year. It is data from this day that is brought into the index for comparison.

Learn more about the HUGSI-methodology:



The Green KPI's of HUGSI

HUGSI is based on a unique data set together with algorithms to analyze satellite images monitoring the proportion and health of green spaces in cities across the globe. To be able to compare and track the development of urban green spaces we have created the following six Key Performance Indicators (KPI's).

Percentage of urban green space

The area in actual size of green space, divided by size of total urban area of the city being measured.

Percentage of urban green space covered by trees

HUGSI uses a machine learning model to specifically differentiate trees from other vegetation including bush.

Percentage of urban green space covered by grass

HUGSI uses a machine learning model to differentiate grass from other vegetation.

Average health of urban green space

HUGSI measures health of vegetation with NDVI, a widely used indicator of vegetation health based on the absorption of visible and invisible light. NDVI value of living vegetation ranges from 0 to 1.

Urban green space per capita

The area in actual size of green space, divided by population residing in urban area of a city.

Distribution of urban green space

The greenness of a city can also be identified by how well distributed or spread out the vegetation is. Is all vegetation concentrated in one large park or is the green space spread throughout the city? HUGSI measures the distribution of green space based on the median percentage of green space across all defined grids of a city.

HUGSI Ranking / Index

Cities are compared and ranked based on a formula that uses all aspects of the urban green space of a city. To score high in the index you should have well distributed, high coverage percentage of vegetation of good health within the populated parts of the city. Trees is awarded twice the value of grass. The score in the index will give each city a relative position as greener or less green than others.

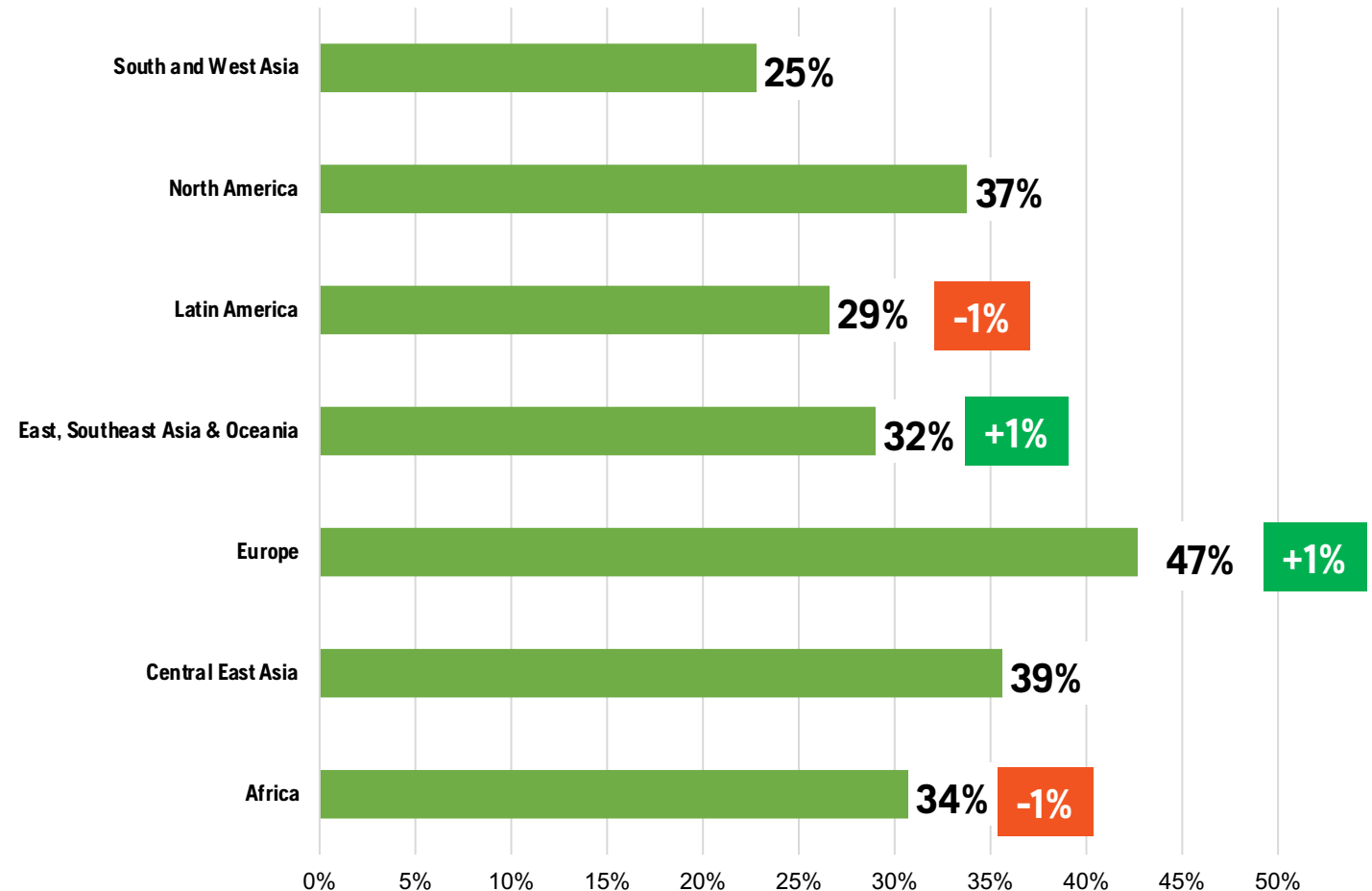
How green are cities?

Since we launched HUGSI in 2019, we've been focused on answering a key question: How green are cities?

This year, our findings show that the global average remains at 43% — the same as last year. What's remarkable is that, despite adding 65 new cities to our analysis, the overall average hasn't changed.

In the graphs to the right, you can see how the average percentage of green space varies across seven regions and how these numbers have shifted compared to last year.

Average green space percentage per region



Are cities getting greener?

Another of our foundational questions that we have been exploring since the start is: Are cities becoming greener over time? For most years so far, the answer has been No, cities become less green.

By monitoring year-to-year changes in urban areas across all cities analyzed, we can see both positive and negative shifts in green space.

This year, we observed a high level of change overall, with significant amounts of both gains and losses in green space. In total the change represents 0.3% of the total urban area analyzed.

In total, 95 million m² of new green space were added across the 344 cities studied. Most of this increase is related to expanded areas of grass cover, likely due to weather events and other passive factors, rather than active greening efforts. On the other hand, we recorded a loss of 158 million m² of green space, primarily due to human activities like construction.

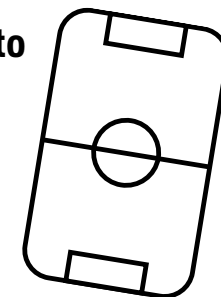
Overall, cities experienced a net decrease of 63 million m² of urban green space compared to the previous year.

-63M m²

**Less green space
compared to 2022**

...equal to

**7700
football
fields**



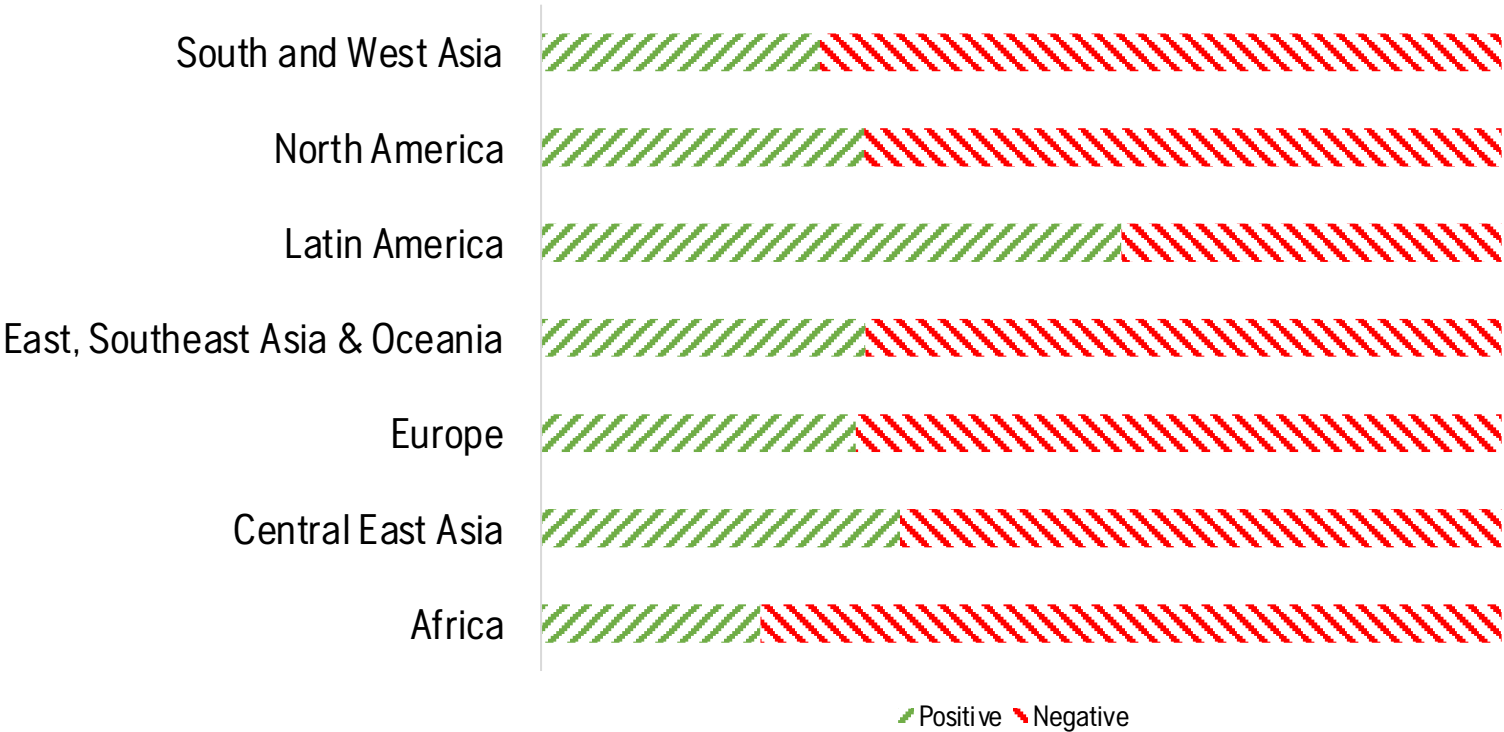
Changes per region

Tracking changes in green space across cities and regions is crucial, as no city can meet its greening goals if the net change remains negative.

The graph to the right illustrates the scale of green space change in each region, with both positive and negative change.

All regions, except Latin America, show a net decline in green space, though the balance between gains and losses varies by region, as shown in the graph.

In the following pages, we'll examine these changes in detail—region by region.



Change per region

Africa

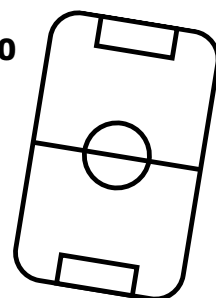
11 Cities (3.2%) / Population 49M / Area 7K km² / **Avg. population 4.4M**

-7.6M m²

Less green space
compared to 2022

...equal to

916
football
fields



We are following 11 cities in Africa; all cities are large cities with an average population of 4.4 million inhabitants. Total positive change is close to 3 million m² and negative change is close to 11 million m².

In total, the change is negative with 7.5 million m². Dar es Salaam in Tanzania is the only city with a positive net change.

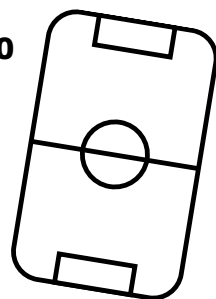
#	City	Country	Change
1	Dar es Salaam	Tanzania	+ 663 300 m ²
2	Lagos	Nigeria	- 900 m ²
3	Accra	Ghana	- 153 700 m ²
4	Abidjan	Cote d'Ivoire	- 187 100 m ²
5	Nairobi	Kenya	- 254 300 m ²
6	Addis Ababa	Ethiopia	- 433 200 m ²
7	Tshwane	South Africa	- 594 400 m ²
8	Dakar	Senegal	- 736 200 m ²
9	Johannesburg	South Africa	- 814 500 m ²
10	Cape Town	South Africa	- 1 062 100 m ²

Change per region

Central East Asia

13 Cities (3.8%) / Population 144M / Area 26K km² / **Avg. population 11M**

-29.5M m² ...equal to
3600
football
fields



**Less green space
compared to 2022**

In our data, Central East Asia refers solely to China. Each year, we have observed extremely high activity levels in Chinese cities, and this year is no different. Total positive change is close to 44 million m² and negative change is close to 73 million m².

In Hangzhou, we recorded exceptionally high numbers. The net gain in green space is nearly 10 million m². However, when we looked closer, we saw that the total positive change is about 20 million m², while the negative change is nearly 10 million m².

#	City	Country	Change
1	Hangzhou	China	+ 9 875 800 m ²
2	Wuhan	China	+ 177 800 m ²
3	Hong Kong	Hong Kong	- 128 800 m ²
4	Zhenjiang	China	- 566 800 m ²
5	Fuzhou	China	- 1 395 500 m ²
6	Nanjing	China	- 1 434 800 m ²
7	Qingdao	China	- 2 472 900 m ²
8	Chengdu	China	- 2 814 300 m ²
9	Shenzhen	China	- 3 683 000 m ²
10	Dalian	China	- 5 281 300 m ²

Change per region

East, Southeast Asia & Oceania

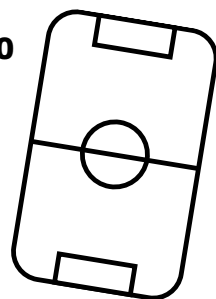
13 Cities (3.8%) / Population 86M / Area 7.8K km² / **Avg. population 6.6M**

-9.8M m²

**Less green space
compared to 2022**

...equal to

**1200
football
fields**



For East, Southeast Asia & Oceania we have detected a total positive change of almost 10 million m² and negative change close to 20 million m².

Out of 13 cities, 3 cities record a positive net change.

#	City	Country	Change
1	Melbourne	Australia	+138 100 m ²
2	Singapore	Singapore	+ 16 300 m ²
3	Yokohama	Japan	+ 4 600 m ²
4	Sydney	Australia	- 41 300 m ²
5	Quezon City	Philippines	- 61 100 m ²
6	Seoul	South Korea	- 88 600 m ²
7	Kuala Lumpur	Malaysia	- 259 500 m ²
8	Auckland	New Zealand	- 310 200 m ²
9	Tokyo	Japan	- 347 300 m ²
10	Hanoi	Vietnam	- 677 800 m ²

Change per region

Europe

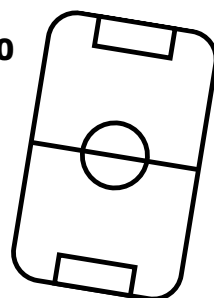
257 Cities (75%) / Population +276M / Area 30K km² / **Avg. population 15M**

-11.4M m²

Less green space
compared to 2022

...equal to

1400
football
fields



Europe is in general very green. It is also the region with most cities analyzed, 75% of all cities part of the index.

Total positive change amounts to 11 million m² and negative change is close to 22 m².

Even though the net change is negative, a very positive observation is that 76 cities out of 257 are net positive – adding more green areas than was removed.

#	City	Country	Change
1	Rome	Italy	+ 283 800 m ²
2	Edinburgh	United Kingdom	+ 242 100 m ²
3	Genoa	Italy	+ 129 800 m ²
4	Turin	Italy	+ 95 300 m ²
5	Almere	Netherlands	+ 88 200 m ²
6	Milano (Metro)	Italy	+ 64 700 m ²
7	Leicester	United Kingdom	+ 57 900 m ²
8	Helmond	Netherlands	+ 34 500 m ²
9	Frankfurt am Main	Germany	+ 30 300 m ²
10	Verona	Italy	+ 24 800 m ²

Change per region

Latin America

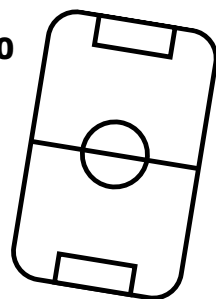
13 Cities (3.8%) / Population 80M / Area 9.2K km² / **Avg. population 6.2M**

+6M m²

Less green space
compared to 2022

...equal to

725
football
fields



Latin America is the only region with a positive net development. In total we detect a positive change of 17 million m² and negative change close to 11 million m².

The positive development of Santiago, Chile was what brought the region to a positive net. This enormous positive development is most probably due to the heavy rains hitting Chile in June of 2023 resulting in growth of new grasslands within and close to the urban areas of the city.

#	City	Country	Change
1	Santiago	Chile	+ 9,8M m ²
2	Caracas	Venezuela	+ 901 600 m ²
3	Guadalajara	Mexico	+ 58 900 m ²
4	Lima	Peru	+ 18 300 m ²
5	Salvador	Brazil	- 75 300 m ²
6	Buenos Aires	Argentina	- 80 000 m ²
7	Curitiba	Brazil	- 80 600 m ²
8	Medellín	Colombia	- 81 600 m ²
9	Mexico City	Mexico	- 103 200 m ²
10	Rio de Janeiro	Brazil	- 201 700 m ²

Change per region

North America

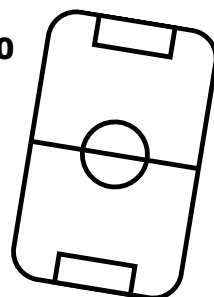
22 Cities (6.4) / Population 34M / Area 8.6K km² / **Avg. population 1.5M**

-6M m²

Less green space
compared to 2022

...equal to

715
football
fields



North America sums up with a negative net of 6 million m². This as a result from a total positive change of 6 million m² and negative change close to 12 million m².

Four cities are net positive or neutral from a green space perspective.

#	City	Country	Change
1	Vancouver	Canada	+ 828 400 m ²
2	Denver	USA	+ 47 200 m ²
3	Seattle	USA	+ 37 400 m ²
4	Bexley	USA	Neutral
5	San Francisco	USA	- 4 100 m ²
6	Minneapolis	USA	- 52 000 m ²
7	Boston	USA	- 73 900 m ²
8	Portland	USA	- 86 700 m ²
9	Tampa	USA	- 120 200 m ²
10	Chicago	USA	- 136 100 m ²

Change per region

South & West Asia

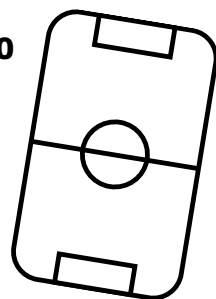
15 Cities (4.3%) / Population 134M / Area 9.2K km² / **Avg. population 9M**

-5M m²

Less green space
compared to 2022

...equal to

612
football
fields



South & West Asia is also a region where most of the cities are very large with an average population of 9 million people.

The net change is negative of 5 million m², a result from a total positive change of 3.5 million m² and negative change close to 8.5 million m².

It is interesting to note that Riyadh, Saudia Arabia, the least green city of all in the index is one of the cities with a positive net change.

#	City	Country	Change
1	Mumbai	India	+ 479 700 m ²
2	Riyadh	Saudi Arabia	+ 132 700 m ²
3	Surat	India	+ 12 700 m ²
4	Kolkata	India	+ 11 200 m ²
5	Jaipur	India	- 49 400 m ²
6	Dubai	United Arab Emirates	- 62 800 m ²
7	Amman	Jordan	- 66 800 m ²
8	Dhaka	Bangladesh	- 93 800 m ²
9	Hyderabad	India	- 122 600 m ²
10	Ahmedabad	India	- 252 200 m ²

HUGSI – 2024 Index

Mega cities

Over the years, we've been tracking the development of the world's largest cities — the mega cities.

A mega city is defined as having at least 10 million residents. In the HUGSI index, we are currently monitoring 18 megacities with a combined population of 276 million people.

Interestingly, these mega cities manage to maintain a substantial amount of green space despite their high population density and extensive infrastructure needs. On average, their urban green space is 34%, compared to the global average of 43%

Filter category

Mega cities

18 Cities (6.5%) / Population +276M / Area 30K km² / **Avg. population 15M**

34%
**Percentage of urban
green space**

23%
Tree cover %

39m²
**Urban green space
per capita**

26%
**Distribution of
urban green space**

Green model city

Highest % green space

Most urban green space per capita

Best health of urban vegetation

Highest % tree cover

Best distribution of urban green space

Highest % grass cover

Rio de Janeiro

Dhaka, Bangladesh (**52%**)

Chengdu, China(**104m²**)

Rio de Janeiro, Brazil (**0.71**)

Beijing, China (**37%**)

Dhaka, Bangladesh (**59%**)

Dhaka, Bangladesh (**25%**)

HUGSI – 2024 Index

Capitals in Europe

As Europe is the region with most cities part of the index it is interesting to rank the capitals.

In total, we are following 18 European capitals. Our conclusion is that the capitals are less green than Europe as a whole, 41% for the capitals compared to 47% for Europe as a region.

Vilnius, capital of Lithuania, is by far the greenest city among the capitals in Europe that we follow.

Filter category

Capitals in Europe

23 Cities (8%) / Population +56M / Area 8.7K km² / **Avg. population 2.4M**

41%
**Percentage of urban
green space**

31%
Tree cover %

86m²
**Urban green space
per capita**

36%
**Distribution of
urban green space**

Green model city

Highest % green space

Most urban green space per capita

Best health of urban vegetation

Highest % tree cover

Best distribution of urban green space

Highest % grass cover

Vilnius, Lithuania

Vilnius, Lithuania (**61%**)

Vilnius, Lithuania (**226m²**)

Brussels, Belgium (**0,76**)

Vilnius, Lithuania (**47%**)

Vilnius, Lithuania (**67%**)

Rome, Italy (**27%**)

Filter category

Capitals in Europe

23 Cities (8%) / Population +56M / Area 8.7K km² / **Avg. population 2.4M**

41%

Percentage of urban
green space


31%

Tree cover %


86m²

Urban green space
per capita


36%

Distribution of
urban green space

#	City	Country	Score
1	Vilnius	Lithuania	75.68
2	Prague	Czech Republic	70.80
3	Warsaw	Poland	67.03
4	Berlin	Germany	63.11
5	Budapest	Hungary	61.92
6	Wien	Austria	61.33
7	Riga	Latvia	61.02
8	Oslo	Norway	59.88
9	Helsinki	Finland	58.06
10	Stockholm	Sweden	57.98

HUGSI – 2024 Index

Population density categories

Through years of analyzing green space data for cities worldwide, we've learned that population density is a key factor in determining how green a city can be.

The higher the population, the harder it is to provide enough green space while meeting other service needs.

To make comparisons more meaningful, we have grouped cities into different population density categories.

On the following pages, we will explore each category to show the green space situation for cities within it.

Population density category

Low population density

54 Cities (16%) / Population 2M / Area 1.6K km² / **Avg. population 38K**



55%

**Percentage of urban
green space**



26%

Tree cover %



478m²

**Urban green space
per capita**



58%

**Distribution of
urban green space**

Green model city

Highest % green space

Most urban green space per capita

Best health of urban vegetation

Highest % tree cover

Best distribution of urban green space

Highest % grass cover

Emmen, NL

Charlotte NC, US (**66%**)

Charlotte NC, US (**522m²**)

Emmen, NL (**0.77**)

Charlotte NC, US (**58%**)

Charlotte NC, US (**73%**)

Randers, DK (**33%**)

Cities with > 50 000 inhabitants, recognized.

Population density category

Low population density

54 Cities (16%) / Population 2M / Area 1.6K km² / **Avg. population 38K**

55%
**Percentage of urban
green space**

26%
Tree cover %

478m²
**Urban green space
per capita**

58%
**Distribution of
urban green space**

#	City	Country	Score
1	Emmen	Netherlands	78.26
2	Vejle	Denmark	77.23
3	Charlotte (NC)	USA	72.52
4	Kolding	Denmark	68.29
5	Karlstad	Sweden	66.81
6	Gävle	Sweden	66.37
7	Växjö	Sweden	65.75
8	Randers	Denmark	64.01
9	Halmstad	Sweden	62.84
10	Horsens	Denmark	60.72

Cities with > 50 000 inhabitants, recognized.

Population density category

Medium population density

129 Cities (38%) / Population +30M / Area 13K km² / **Avg. population 236K**



47%

**Percentage of urban
green space**



29%

Tree cover %



230m²

**Urban green space
per capita**



45%

**Distribution of
urban green space**

Green model city

Zeist, NL

Highest % green space

Zeist, NL (70%)

Most urban green space per capita

Oulu, FI (352)

Best health of urban vegetation

Zeist.NL (0.79)

Highest % tree cover

Zeist, NL (60%)

Best distribution of urban green space

Zeist, NL (81%)

Highest % grass cover

Kragujevac, RS (40%)

Population density category

Medium population density

129 Cities (38%) / Population +30M / Area 13K km² / **Avg. population 236K**



47%

Percentage of urban
green space



29%

Tree cover %



230m²

Urban green space
per capita



45%

Distribution of
urban green space

#	City	Country	Score
1	Zeist	Netherlands	76.50
2	Vilnius	Lithuania	75.68
3	Dortmund	Germany	73.06
4	Uppsala	Sweden	72.65
5	Linköping	Sweden	72.64
6	Assen	Netherlands	72.49
7	Kragujevac	Serbia	71.82
8	Wuerzburg	Germany	71.79
9	Leipzig	Germany	71.53
10	Erlangen	Germany	71.48

Cities with > 50 000 inhabitants, recognized.

Population density category

High population density

76 Cities (22%) / Population 106M / Area 27K km² / **Avg. population 1.4M**



42%

**Percentage of urban
green space**



28%

Tree cover %



110m²

**Urban green space
per capita**



36%

**Distribution of
urban green space**

Green model city

Highest % green space

Most urban green space per capita

Best health of urban vegetation

Highest % tree cover

Best distribution of urban green space

Highest % grass cover

Durban, South Africa

Durban, South Africa (**62%**)

Durban, South Africa (**194m²**)

Tilburg, NL (**0.78**)

Durban, South Africa (**46%**)

Durban, South Africa (**69%**)

Brighton, UK (**30%**)

Population density category

High population density

76 Cities (22%) / Population 106M / Area 27K km² / **Avg. population 1.4M**



42%

Percentage of urban
green space



28%

Tree cover %



110m²

Urban green space
per capita



36%

Distribution of
urban green space

#	City	Country	Score
1	Durban	South Africa	76.93
2	Stuttgart	Germany	74.89
3	Krakov	Poland	72.84
4	Sheffield	United Kingdom	71.86
5	Wroclaw	Poland	71.32
6	Prague	Czech Republic	70.80
7	Zhytomyr	Ukraine	69.68
8	Essen	Germany	69.34
9	Hamburg	Germany	69.08
10	Hilversum	Netherlands	68.94

Population density category

Very high population density

85 Cities (25%) / Population +503M / Area 53K km² / **Avg. population 6M**



31%

**Percentage of urban
green space**



21%

Tree cover %



38m²

**Urban green space
per capita**



21%

**Distribution of
urban green space**

Green model city

Highest % green space

Most urban green space per capita

Best health of urban vegetation

Highest % tree cover

Best distribution of urban green space

Highest % grass cover

Munich, Germany

Dar es Salaam, Tanzania (**53%**)

Genoa, Italy (**92m²**)

The Hague, NL(**0.77**)

Stockholm, Sweden (**42%**)

Dhaka, Bangladesh (**59%**)

Rome, Italy(**27%**)

Population density category

Very high population density

85 Cities (25%) / Population +503M / Area 53K km² / **Avg. population 6M**

31%
**Percentage of urban
green space**

21%
Tree cover %

38m²
**Urban green space
per capita**

21%
**Distribution of
urban green space**

#	City	Country	Score
1	Munich	Germany	69.94
2	Genoa	Italy	68.40
3	Rio de Janeiro	Brazil	67.28
4	Beijing	China	63.24
5	Dhaka	Bangladesh	61.69
6	Vienna	Austria	61.33
7	Hong Kong	Hong Kong	59.91
8	Stockholm	Sweden	57.98
9	Dar es Salaam	Tanzania	56.55
10	Pune	India	56.50

HUGSI – 2024 Index

Top lists of all 344 cities

On the following pages we will disclose the data for all cities analyzed.
The cities are ordered by ranking with the highest ranked cities first.

Available data columns include:

- **Green index** – the score when combining multiple factors to compare cities between each other.
- **Green %** - the proportion of vegetation within the urban areas of a city
- **Green space per capita** – total area of green space in square meters divided with the total population
- **Tree canopy cover %** - the proportion of tree canopy within the urban areas of a city
- **Grass cover %** - the proportion of grass cover within the urban areas of a city
- **Water %** - the proportion of water within the urban areas of a city
- **Other %** - the proportion of hard made, impervious areas within the urban area of a city such as buildings, roads, parking lots and similar land use
- **Vitality** – the health of vegetation based on NDVI ranging from – 1 to +1
- **Distribution** – how well green space is distributed within the urban areas of the city. High percentage indicates even distribution, low numbers indicate smaller concentrations of green space.
- **Population density** – number of inhabitants per square kilometer
- **Change factor** – indicate whether the city has positive, negative or neutral development of greenspace from 2022 to 2023

All cities with data 1-20

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Utrechtse Heuvelrug	Netherlands	1	86,11	74%	507	52%	22%	0%	26%	0.79	86%	1461	Positive
Putten	Netherlands	2	84,31	68%	613	43%	25%	0%	32%	0.78	83%	1106	Negative
Renkum	Netherlands	3	83,88	67%	355	41%	26%	3%	30%	0.79	79%	1890	Positive
Elburg	Netherlands	4	82,26	66%	527	39%	27%	0%	34%	0.76	84%	1252	Positive
Nunspeet	Netherlands	5	81,24	65%	421	45%	20%	0%	35%	0.75	75%	1534	Positive
Blaricum	Netherlands	6	80,98	65%	673	47%	18%	3%	32%	0.75	76%	965	Positive
De Bilt	Netherlands	7	80,18	70%	335	57%	13%	1%	30%	0.78	82%	2075	Positive
Baarn	Netherlands	8	80,18	62%	301	36%	26%	2%	36%	0.77	73%	2061	Positive
Oldebroek	Netherlands	9	79,11	59%	470	40%	19%	0%	40%	0.76	72%	1264	Positive
Vught	Netherlands	10	78,80	61%	307	46%	14%	2%	37%	0.79	67%	1980	Negative
Emmen	Netherlands	11	78,26	59%	435	37%	22%	2%	39%	0.77	64%	1359	Negative
Soest	Netherlands	12	78,23	61%	311	42%	19%	0%	39%	0.74	66%	1947	Negative
Heiloo	Netherlands	13	77,51	63%	327	34%	30%	1%	36%	0.75	68%	1930	No Change
Vejle	Denmark	14	77,23	59%	504	35%	24%	4%	37%	0.75	61%	1170	Negative
Bergen	Netherlands	15	77,16	65%	459	34%	31%	2%	33%	0.71	75%	1412	Positive
Durban	South Africa	16	76,93	62%	194	46%	16%	1%	36%	0.72	69%	3204	Negative
Zeist	Netherlands	17	76,50	70%	320	60%	9%	0%	30%	0.79	81%	2177	Positive
Rhenen	Netherlands	18	75,71	56%	284	32%	25%	9%	35%	0.77	60%	1984	Positive
Vilnius	Lithuania	19	75,68	61%	226	47%	14%	1%	38%	0.75	67%	2693	Negative
Rheden	Netherlands	20	75,22	56%	305	32%	24%	4%	40%	0.77	59%	1825	Negative

All cities with data 21-40

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Stuttgart	Germany	21	74.89	56%	145	37%	18%	1%	43%	0.75	56%	3823	Negative
Laren	Netherlands	22	74.58	72%	534	64%	8%	0%	28%	0.76	82%	1348	Negative
Bloemendaal	Netherlands	23	74.36	63%	511	53%	10%	1%	35%	0.75	71%	1235	No Change
Dortmund	Germany	24	73.06	55%	210	37%	18%	0%	45%	0.72	55%	2616	Negative
Krakow	Poland	25	72.84	53%	164	36%	18%	1%	46%	0.75	53%	3253	Negative
Uppsala	Sweden	26	72.65	56%	221	36%	21%	1%	43%	0.69	59%	2551	Negative
Linköping	Sweden	27	72.64	55%	270	32%	24%	1%	44%	0.71	58%	2046	Negative
Charlotte (NC)	USA	28	72.52	66%	522	58%	9%	1%	33%	0.73	73%	1268	Negative
Assen	Netherlands	29	72.49	54%	265	36%	17%	2%	45%	0.73	53%	2021	Negative
Sheffield	UK	30	71.86	52%	163	32%	21%	0%	48%	0.76	49%	3198	Negative
Kragujevac	Serbia	31	71.82	66%	266	26%	40%	0%	34%	0.70	78%	2474	Negative
Upplands Väsby	Sweden	32	71.79	57%	308	44%	13%	3%	40%	0.70	58%	1852	Negative
Wuerzburg	Germany	33	71.79	53%	242	32%	21%	2%	45%	0.74	52%	2182	Negative
Leipzig	Germany	34	71.53	56%	194	31%	25%	1%	43%	0.71	58%	2888	Negative
Erlangen	Germany	35	71.48	53%	221	35%	18%	2%	45%	0.73	51%	2399	Negative
Leusden	Netherlands	36	71.43	59%	317	26%	33%	1%	40%	0.78	63%	1854	Negative
Wroclaw	Poland	37	71.32	52%	153	34%	17%	2%	46%	0.74	50%	3377	Negative
Gooise Meren	Netherlands	38	71.24	55%	183	42%	12%	2%	43%	0.72	56%	2996	Positive
Prague	Czech Republic	39	70.80	53%	136	28%	25%	2%	45%	0.76	51%	3914	Negative
Heidelberg	Germany	40	70.76	54%	186	42%	12%	3%	43%	0.75	54%	2892	Positive

All cities with data 41-60

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Eskilstuna	Sweden	41	70,49	52%	261	35%	17%	3%	46%	0.72	52%	1992	Negative
Deurne	Netherlands	42	70,34	51%	391	27%	24%	0%	48%	0.78	52%	1315	Positive
Munich	Germany	43	69,94	52%	90	38%	14%	1%	48%	0.74	49%	5701	Negative
Bayreuth	Germany	44	69,94	52%	252	30%	22%	0%	48%	0.73	51%	2066	Positive
Stichtse Vecht	Netherlands	45	69,86	51%	280	29%	22%	9%	40%	0.77	49%	1821	Positive
Eemnes	Netherlands	46	69,82	68%	627	23%	45%	0%	32%	0.76	80%	1088	Positive
Odense	Denmark	47	69,77	54%	308	28%	26%	1%	45%	0.72	53%	1759	Negative
Dronten	Netherlands	48	69,75	50%	345	28%	22%	2%	48%	0.77	49%	1441	Negative
Heerde	Netherlands	49	69,71	63%	505	28%	36%	0%	36%	0.67	74%	1254	Positive
Zhytomyr / Житомир	Ukraine	50	69,68	55%	159	44%	11%	2%	42%	0.70	55%	3481	Negative
Helmond	Netherlands	51	69,48	48%	216	32%	16%	2%	50%	0.78	45%	2199	Positive
Oldenzaal	Netherlands	52	69,43	51%	278	32%	20%	2%	47%	0.72	52%	1852	Negative
Turku	Finland	53	69,36	52%	239	40%	11%	3%	45%	0.74	53%	2161	Negative
Essen	Germany	54	69,34	52%	159	41%	10%	2%	47%	0.76	49%	3250	Positive
Laarbeek	Netherlands	55	69,29	51%	516	26%	25%	3%	46%	0.80	52%	982	Positive
Hamburg	Germany	56	69,08	50%	152	39%	12%	6%	44%	0.75	51%	3313	Negative
Hilversum	Netherlands	57	68,94	53%	151	44%	9%	1%	46%	0.75	55%	3530	No Change
Geneva	Switzerland	58	68,87	52%	127	33%	19%	6%	43%	0.69	53%	4075	Negative
Genoa	Italy	59	68,40	50%	92	40%	10%	5%	45%	0.76	52%	5407	Positive
Kolding	Denmark	60	68,29	53%	411	25%	28%	4%	42%	0.74	52%	1300	Negative

All cities with data 61-80

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Örebro	Sweden	61	67,70	50%	239	34%	16%	1%	49%	0.70	48%	2107	Negative
Borås	Sweden	62	67,60	58%	294	52%	6%	1%	41%	0.78	61%	1972	Negative
Austin	USA	63	67,50	55%	248	37%	19%	1%	44%	0.61	58%	2240	Negative
Bronckhorst	Netherlands	64	67,50	57%	480	23%	34%	0%	43%	0.76	62%	1180	Negative
Aarhus	Denmark	65	67,41	54%	250	26%	28%	4%	42%	0.73	55%	2142	Negative
Rio de Janeiro	Brazil	66	67,28	49%	79	31%	18%	2%	49%	0.71	47%	6180	Negative
Zürich	Switzerland	67	67,23	48%	98	35%	14%	4%	48%	0.73	46%	4943	Negative
Warsaw	Poland	68	67,03	50%	119	40%	10%	1%	48%	0.73	48%	4235	Negative
Aalten	Netherlands	69	66,98	53%	415	24%	29%	0%	46%	0.74	55%	1284	Positive
Vantaa	Finland	70	66,84	52%	299	43%	9%	0%	48%	0.74	52%	1737	Negative
Karlstad	Sweden	71	66,81	51%	369	40%	11%	9%	40%	0.72	49%	1369	Negative
Uden	Netherlands	72	66,75	50%	328	25%	25%	1%	50%	0.78	50%	1516	Positive
Jönköping	Sweden	73	66,71	50%	293	41%	9%	9%	41%	0.77	49%	1693	Negative
Västerås	Sweden	74	66,62	49%	251	35%	14%	4%	47%	0.71	48%	1952	Negative
Doetinchem	Netherlands	75	66,57	51%	326	24%	27%	1%	47%	0.75	53%	1579	Negative
Lahti	Finland	76	66,52	56%	349	51%	5%	4%	40%	0.75	61%	1604	Negative
Gävle	Sweden	77	66,37	56%	423	49%	7%	2%	42%	0.69	59%	1323	Negative
Sollentuna	Sweden	78	66,34	56%	288	49%	7%	8%	36%	0.69	58%	1933	Negative
Umeå	Sweden	79	66,15	48%	282	38%	10%	6%	46%	0.76	44%	1686	Negative
Köln	Germany	80	66,12	47%	126	31%	16%	4%	49%	0.74	43%	3718	Negative

All cities with data 81-100

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Bamberg	Germany	81	66,05	47%	217	35%	12%	3%	50%	0.76	42%	2154	Negative
Enschede	Netherlands	82	66,00	48%	171	29%	19%	1%	50%	0.72	45%	2812	Negative
Zeewolde	Netherlands	83	65,94	48%	379	36%	12%	14%	38%	0.72	46%	1267	Negative
Brunssum	Netherlands	84	65,88	46%	223	30%	16%	1%	54%	0.76	41%	2041	Negative
Växjö	Sweden	85	65,75	53%	357	45%	8%	5%	41%	0.72	52%	1494	Negative
Lelystad	Netherlands	86	65,58	46%	199	33%	13%	7%	47%	0.75	43%	2320	Negative
Renswoude	Netherlands	87	65,48	63%	645	19%	44%	0%	37%	0.79	84%	971	Positive
Oulu	Finland	88	65,38	54%	352	50%	4%	8%	38%	0.75	60%	1544	Negative
Groningen	Netherlands	89	65,22	48%	167	28%	19%	6%	47%	0.73	44%	2851	Negative
Meppel	Netherlands	90	65,04	49%	299	26%	23%	5%	46%	0.74	49%	1637	Positive
Raalte	Netherlands	91	64,70	49%	318	24%	24%	1%	50%	0.75	49%	1528	Negative
Apeldoorn	Netherlands	92	64,69	46%	168	34%	11%	1%	54%	0.75	42%	2707	Negative
Södertälje	Sweden	93	64,67	56%	309	51%	5%	5%	40%	0.70	59%	1809	Negative
Fuerth	Germany	94	64,61	49%	168	27%	22%	2%	50%	0.71	42%	2883	Negative
Winterswijk	Netherlands	95	64,54	49%	290	25%	24%	0%	50%	0.74	47%	1696	Negative
Amersfoort	Netherlands	96	64,34	45%	129	30%	15%	2%	53%	0.74	40%	3488	Positive
Bexley	USA	97	64,25	57%	364	54%	3%	0%	43%	0.73	60%	1561	No Change
Hoogeveen	Netherlands	98	64,19	49%	290	23%	26%	2%	49%	0.76	48%	1704	Negative
Randers	Denmark	99	64,01	56%	411	22%	33%	2%	43%	0.72	55%	1350	Negative
Oss	Netherlands	100	63,96	46%	230	24%	22%	1%	53%	0.78	42%	2000	Positive

All cities with data 101-120

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Bunnik	Netherlands	101	63,96	57%	497	20%	37%	1%	42%	0.77	64%	1143	Negative
Weert	Netherlands	102	63,68	48%	306	23%	24%	2%	51%	0.75	45%	1557	Negative
Norrköping	Sweden	103	63,47	46%	212	29%	17%	3%	51%	0.70	43%	2173	Negative
Edinburgh	United Kingdom	104	63,31	44%	110	27%	17%	3%	53%	0.76	36%	3998	Positive
Beijing	China	105	63,24	50%	91	37%	13%	2%	48%	0.63	49%	5543	Negative
Albrandswaard	Netherlands	106	63,15	47%	276	24%	22%	6%	48%	0.73	44%	1693	Negative
Jyväskylä	Finland	107	63,15	54%	347	52%	2%	9%	37%	0.73	57%	1554	Negative
Berlin	Germany	108	63,11	51%	104	45%	6%	3%	46%	0.70	51%	4902	Negative
Leeds	UK	109	63,05	52%	183	24%	29%	1%	47%	0.71	50%	2856	Negative
Tallinn	Estonia	110	62,94	49%	148	40%	9%	7%	44%	0.69	49%	3298	Negative
Halmstad	Sweden	111	62,84	45%	303	30%	15%	6%	49%	0.71	41%	1482	Negative
Houten	Netherlands	112	62,73	49%	170	24%	25%	4%	47%	0.73	47%	2889	Positive
Vijfheerenlanden	Netherlands	113	62,73	51%	299	21%	29%	4%	45%	0.76	52%	1689	Positive
Lund	Sweden	114	62,68	50%	189	24%	26%	0%	49%	0.70	49%	2652	Negative
Wijk bij Duurstede	Netherlands	115	62,55	54%	265	19%	34%	8%	39%	0.78	57%	2028	Positive
Herning	Denmark	116	62,47	50%	417	21%	29%	2%	48%	0.74	45%	1208	Negative
Amstelveen	Netherlands	117	62,42	42%	146	27%	16%	4%	53%	0.78	37%	2905	Positive
Espoo	Finland	118	62,38	52%	255	46%	5%	7%	42%	0.70	52%	2023	Negative
Almere	Netherlands	119	62,31	45%	158	32%	13%	8%	48%	0.72	39%	2830	Positive
Zoeterwoude	Netherlands	120	62,29	52%	551	21%	31%	3%	45%	0.74	55%	943	Positive

All cities with data 121-140

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Purmerend	Netherlands	121	62,28	46%	123	28%	18%	5%	50%	0.71	41%	3714	Positive
Budapest	Hungary	122	61,92	47%	115	37%	11%	3%	50%	0.67	44%	4098	Positive
Dhaka	Bangladesh	123	61,69	52%	34	27%	25%	8%	39%	0.61	59%	15477	Negative
Woerden	Netherlands	124	61,67	51%	250	20%	31%	5%	44%	0.77	53%	2060	Negative
Wien	Austria	125	61,33	44%	71	31%	13%	3%	53%	0.71	40%	6191	Negative
Nuernberg	Germany	126	61,15	44%	129	34%	10%	2%	55%	0.75	36%	3409	Negative
Riga	Latvia	127	61,02	47%	155	39%	8%	9%	44%	0.69	46%	3043	Negative
Glasgow	UK	128	60,98	42%	111	27%	15%	1%	57%	0.75	36%	3780	Negative
Augsburg	Germany	129	60,92	47%	135	24%	22%	1%	52%	0.71	43%	3435	Negative
Birmingham	UK	130	60,90	41%	95	27%	14%	1%	58%	0.76	35%	4351	Negative
Nieuwegein	Netherlands	131	60,90	42%	161	32%	10%	10%	48%	0.77	35%	2581	Negative
Göteborg	Sweden	132	60,80	48%	172	42%	6%	5%	47%	0.71	45%	2780	Negative
Barneveld	Netherlands	133	60,73	51%	400	19%	32%	1%	48%	0.77	55%	1286	Positive
Ouder-Amstel	Netherlands	134	60,73	46%	455	24%	22%	5%	49%	0.72	43%	1011	Negative
Horsens	Denmark	135	60,72	49%	366	23%	26%	6%	44%	0.69	48%	1341	Negative
Coevorden	Netherlands	136	60,45	44%	372	23%	22%	4%	52%	0.75	42%	1193	Negative
Tampere	Finland	137	60,42	48%	251	44%	3%	10%	43%	0.74	47%	1903	Negative
Esbjerg	Denmark	138	60,35	45%	373	22%	23%	7%	47%	0.74	38%	1216	Negative
Nijmegen	Netherlands	139	60,27	42%	133	30%	12%	6%	52%	0.75	35%	3119	Negative
Ingolstadt	Germany	140	60,27	48%	234	21%	27%	2%	50%	0.73	45%	2064	Negative

All cities with data 141-160

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Noordoostpolder	Netherlands	141	60,03	43%	279	24%	19%	3%	54%	0.74	38%	1528	Positive
IJsselstein	Netherlands	142	60,02	51%	148	20%	31%	2%	47%	0.77	49%	3420	Positive
Woudenberg	Netherlands	143	59,96	62%	388	17%	46%	0%	37%	0.79	75%	1607	Negative
Hong Kong	Hong Kong	144	59,91	47%	28	38%	8%	10%	43%	0.67	42%	16566	Negative
Oslo	Norway	145	59,88	48%	116	44%	4%	3%	48%	0.70	47%	4186	Negative
Regensburg	Germany	146	59,86	43%	166	26%	17%	5%	52%	0.71	38%	2587	Negative
Pori	Finland	147	59,69	52%	458	35%	17%	3%	45%	0.55	51%	1129	Negative
Washington, DC	USA	148	59,54	47%	102	43%	4%	1%	51%	0.72	45%	4640	Negative
Eindhoven	Netherlands	149	59,50	40%	132	30%	10%	1%	59%	0.78	33%	3032	Negative
De Ronde Venen	Netherlands	150	59,46	53%	391	20%	34%	11%	36%	0.73	57%	1367	Negative
Tilburg	Netherlands	151	59,19	39%	130	28%	11%	2%	59%	0.78	32%	3022	Positive
Moscow	Russia	152	58,99	44%	40	39%	5%	3%	53%	0.75	40%	10967	Negative
Breda	Netherlands	153	58,76	40%	139	25%	15%	3%	57%	0.76	34%	2886	Negative
Kuopio	Finland	154	58,46	45%	288	43%	2%	18%	38%	0.75	42%	1556	Negative
Helsingborg	Sweden	155	58,38	44%	204	22%	21%	8%	48%	0.71	39%	2136	Negative
Helsinki	Finland	156	58,06	44%	125	38%	6%	11%	46%	0.72	40%	3480	Negative
Stockholm	Sweden	157	57,98	46%	88	42%	4%	8%	45%	0.68	46%	5232	Negative
Nottingham	UK	158	57,93	39%	94	26%	13%	1%	60%	0.76	31%	4177	Negative
Bristol	UK	159	57,74	44%	101	21%	23%	1%	55%	0.76	36%	4399	Negative
Sittard-Geleen	Netherlands	160	57,52	45%	275	21%	24%	1%	53%	0.71	40%	1649	Positive

All cities with data 161-180

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Harderwijk	Netherlands	161	57,44	41%	166	30%	11%	3%	56%	0.71	36%	2457	Negative
Bournemouth	UK	162	57,35	42%	109	25%	18%	5%	53%	0.70	35%	3896	Negative
Duesseldorf	Germany	163	57,21	41%	102	31%	10%	5%	53%	0.71	34%	4057	Negative
Veenendaal	Netherlands	164	57,13	40%	138	23%	17%	1%	58%	0.74	35%	2919	Negative
Tampa (FL)	USA	165	57,05	49%	264	34%	15%	6%	45%	0.56	50%	1849	Negative
Heilbronn	Germany	166	56,94	46%	187	20%	26%	3%	51%	0.73	42%	2457	Positive
Lyon	France	167	56,89	44%	134	30%	14%	3%	53%	0.65	39%	3257	Negative
Dar es Salaam	Tanzania	168	56,55	53%	75	29%	24%	2%	46%	0.52	57%	7029	Positive
Pune	India	169	56,50	45%	28	27%	18%	2%	54%	0.63	40%	16107	Negative
Brussels	Belgium	170	56,24	39%	51	31%	8%	1%	60%	0.76	32%	7691	Negative
Rijswijk	Netherlands	171	56,16	39%	142	31%	7%	4%	57%	0.77	32%	2731	Negative
Portland	USA	172	56,12	42%	168	37%	5%	1%	57%	0.72	38%	2502	Negative
Zevenaar	Netherlands	173	56,11	49%	282	18%	31%	0%	51%	0.71	48%	1738	Negative
Caracas	Venezuela	174	56,07	48%	52	36%	12%	0%	51%	0.56	45%	9280	Positive
Aalborg	Denmark	175	56,00	53%	348	18%	36%	5%	41%	0.70	54%	1528	Negative
Oegstgeest	Netherlands	176	55,98	38%	182	26%	12%	7%	55%	0.75	32%	2093	Negative
Hoorn	Netherlands	177	55,87	42%	136	24%	18%	9%	49%	0.69	37%	3105	Negative
Southampton	UK	178	55,86	39%	87	27%	12%	5%	56%	0.73	31%	4519	Negative
Delft	Netherlands	179	55,82	38%	87	31%	7%	3%	59%	0.77	31%	4434	Negative
London	UK	180	55,76	41%	61	24%	16%	2%	58%	0.72	31%	6654	Negative

All cities with data 181-200

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Diemen	Netherlands	181	55,68	40%	150	31%	9%	7%	54%	0.71	34%	2653	Negative
Houston	USA	182	55,67	50%	214	40%	10%	1%	49%	0.53	52%	2327	Negative
Venlo	Netherlands	183	55,54	41%	272	25%	15%	4%	56%	0.70	34%	1490	Negative
Surrey (British Columbia)	Canada	184	55,39	39%	152	27%	12%	2%	60%	0.73	30%	2567	Negative
Oudewater	Netherlands	185	54,84	62%	434	14%	48%	2%	36%	0.77	74%	1433	Negative
Kyiv	Ukraine	186	54,77	42%	61	38%	4%	5%	53%	0.72	35%	6818	Negative
Sydney	Australia	187	54,75	42%	162	34%	7%	5%	53%	0.69	33%	2560	Negative
Leicester	UK	188	54,62	40%	88	20%	21%	0%	60%	0.76	33%	4564	Positive
Brighton	UK	189	54,31	48%	103	18%	30%	6%	46%	0.72	42%	4687	Negative
Lingewaard	Netherlands	190	54,04	54%	388	15%	38%	2%	44%	0.74	55%	1388	Positive
Florence	Italy	191	53,87	44%	91	21%	24%	1%	54%	0.66	40%	4865	Negative
Utrecht	Netherlands	192	53,85	37%	84	25%	12%	5%	58%	0.75	29%	4383	Positive
Huizen	Netherlands	193	53,78	39%	120	32%	7%	12%	49%	0.74	30%	3212	Positive
Rome	Italy	194	53,73	47%	87	20%	27%	1%	52%	0.67	43%	5390	Positive
Manchester	UK	195	53,47	38%	80	26%	12%	1%	62%	0.73	29%	4671	Negative
Minneapolis (MN)	USA	196	52,74	41%	154	36%	4%	5%	54%	0.66	40%	2628	Negative
Waalwijk	Netherlands	197	52,60	45%	320	16%	29%	2%	53%	0.77	41%	1410	Negative
Alkmaar	Netherlands	198	52,56	39%	139	21%	18%	6%	55%	0.73	32%	2808	Negative
Fuzhou	China	199	52,45	42%	102	27%	14%	7%	51%	0.63	34%	4075	Negative
West-Betuwe	Netherlands	200	52,35	54%	507	14%	40%	2%	44%	0.78	58%	1068	Positive

All cities with data 201-220

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Lisse	Netherlands	201	52,28	40%	195	18%	22%	3%	57%	0.72	34%	2070	No Change
Montferland	Netherlands	202	52,26	48%	325	15%	33%	0%	52%	0.73	48%	1478	No Change
Vancouver	Canada	203	52,17	37%	119	25%	12%	4%	59%	0.73	27%	3096	Positive
Bologna	Italy	204	52,15	40%	74	23%	17%	0%	59%	0.67	33%	5443	Negative
Ridderkerk	Netherlands	205	51,95	37%	216	22%	15%	11%	51%	0.72	30%	1736	Negative
Neder-Betuwe	Netherlands	206	51,83	54%	623	14%	39%	1%	46%	0.74	55%	861	Positive
Alphen aan den Rijn	Netherlands	207	51,61	43%	242	22%	21%	4%	53%	0.65	37%	1754	Negative
Gouda	Netherlands	208	51,47	38%	110	28%	10%	8%	54%	0.69	30%	3424	Positive
Molenlanden	Netherlands	209	51,34	44%	83	16%	27%	30%	26%	0.77	39%	5270	Negative
Nairobi	Kenya	210	51,25	43%	41	29%	15%	0%	57%	0.57	40%	10445	Negative
Vlaardingen	Netherlands	211	51,23	35%	104	26%	9%	13%	51%	0.75	26%	3377	Negative
Johannesburg	South Africa	212	51,06	42%	77	20%	22%	0%	57%	0.64	39%	5521	Negative
Hollands Kroon	Netherlands	213	50,74	49%	584	15%	34%	5%	46%	0.68	49%	845	Negative
Nanjing	China	214	50,60	38%	74	24%	14%	7%	55%	0.67	30%	5162	Negative
Buren	Netherlands	215	50,60	61%	556	12%	49%	1%	38%	0.76	70%	1094	Negative
Dalian	China	216	50,44	39%	89	27%	11%	3%	58%	0.66	30%	4360	Negative
Zaltbommel	Netherlands	217	50,35	42%	457	16%	26%	8%	51%	0.75	40%	911	Positive
Leiderdorp	Netherlands	218	50,31	38%	135	24%	14%	8%	54%	0.68	30%	2796	Negative
Hague	Netherlands	219	50,30	35%	57	28%	7%	4%	62%	0.77	25%	6102	Negative
Padova	Italy	220	50,16	41%	145	19%	22%	2%	57%	0.67	36%	2830	Positive

All cities with data 221-240

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Midden-Delfland	Netherlands	221	50,11	39%	363	20%	19%	5%	56%	0.71	31%	1080	Negative
Zoetermeer	Netherlands	222	50,00	36%	85	22%	13%	5%	59%	0.72	28%	4200	Negative
Lopik	Netherlands	223	49,81	76%	487	10%	65%	0%	24%	0.76	94%	508	Negative
Roosendaal	Netherlands	224	49,67	37%	164	20%	17%	1%	62%	0.71	30%	2235	Negative
Barendrecht	Netherlands	225	49,66	36%	152	21%	15%	5%	59%	0.72	31%	2350	Negative
Hanoi	Vietnam	226	49,57	46%	114	20%	26%	15%	40%	0.59	44%	4005	Negative
Palermo	Italy	227	49,55	40%	70	27%	13%	4%	56%	0.62	32%	5654	Positive
Zaanstad	Netherlands	228	49,46	40%	155	18%	22%	13%	47%	0.75	30%	2548	Negative
Schagen	Netherlands	229	49,39	49%	284	14%	35%	3%	48%	0.72	48%	1745	Positive
Seattle	USA	230	49,23	36%	118	31%	4%	10%	54%	0.70	32%	3018	Positive
Liverpool	United Kingdom	231	49,18	35%	84	20%	15%	3%	62%	0.77	23%	4132	Negative
Strasbourg	France	232	49,07	36%	92	27%	10%	6%	57%	0.69	27%	3948	Negative
Chengdu	China	233	48,62	44%	104	27%	17%	2%	53%	0.53	41%	4288	Negative
Auckland	New Zealand	234	48,19	39%	150	25%	14%	10%	51%	0.61	32%	2623	Negative
Verona	Italy	235	48,01	42%	109	17%	25%	2%	56%	0.66	36%	3876	Positive
Nice	France	236	47,93	40%	98	37%	3%	3%	58%	0.59	33%	4086	Negative
Toulouse	France	237	47,89	36%	93	25%	11%	2%	62%	0.66	29%	3895	Negative
Urk	Netherlands	238	47,28	37%	148	20%	17%	7%	57%	0.71	23%	2472	Negative
Heerhugowaard	Netherlands	239	47,18	37%	200	18%	19%	7%	56%	0.72	30%	1857	Negative
Melbourne	Australia	240	46,79	37%	169	28%	9%	3%	60%	0.64	29%	2177	Positive

All cities with data 241-260

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Maasdriel	Netherlands	241	46,43	56%	639	10%	47%	7%	37%	0.77	60%	882	Negative
Uitgeest	Netherlands	242	45,98	51%	273	11%	40%	8%	41%	0.77	54%	1864	Negative
Tshwane	South Africa	243	45,89	42%	120	17%	26%	0%	58%	0.61	37%	3517	Negative
Quito	Ecuador	244	45,87	45%	91	31%	14%	0%	55%	0.48	41%	4914	Negative
Vicenza	Italy	245	45,74	43%	147	14%	30%	0%	56%	0.67	40%	2944	Positive
Bunschoten	Netherlands	246	45,38	49%	234	11%	38%	5%	46%	0.77	47%	2094	Negative
Haarlem	Netherlands	247	45,06	33%	72	21%	12%	6%	61%	0.74	20%	4564	Positive
Westland	Netherlands	248	45,04	36%	236	21%	15%	5%	59%	0.65	27%	1530	Negative
Qingdao	China	249	44,97	36%	104	29%	7%	4%	61%	0.66	24%	3422	Negative
São Paulo	Brazil	250	44,96	34%	40	24%	10%	1%	65%	0.71	18%	8501	Negative
Nieuwkoop	Netherlands	251	44,92	53%	668	13%	40%	12%	36%	0.61	53%	786	Positive
Newcastle	UK	252	44,90	38%	104	18%	20%	3%	59%	0.68	28%	3688	Negative
Nantes	France	253	44,89	34%	83	25%	9%	6%	60%	0.67	26%	4107	Negative
Montfoort	Netherlands	254	44,73	61%	490	7%	54%	1%	38%	0.77	74%	1239	Positive
Dordrecht	Netherlands	255	44,58	32%	111	20%	12%	14%	54%	0.74	22%	2897	Negative
Pisa	Italy	256	44,54	44%	175	15%	30%	3%	53%	0.65	38%	2537	Positive
Guangzhou	China	257	44,45	34%	53	25%	9%	7%	59%	0.67	24%	6420	Negative
Shanghai	China	258	44,42	35%	52	24%	11%	6%	59%	0.65	28%	6728	Negative
Belfast	UK	259	44,38	32%	90	20%	13%	2%	66%	0.76	20%	3566	Negative
Toronto	Canada	260	44,27	33%	68	24%	10%	2%	65%	0.68	25%	4906	Negative

All cities with data 261-280

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Curitiba	Brazil	261	44,17	34%	66	26%	8%	0%	65%	0.68	22%	5164	Negative
Teylingen	Netherlands	262	44,12	44%	244	12%	32%	2%	54%	0.67	39%	1816	Negative
Maassluis	Netherlands	263	43,96	35%	120	17%	18%	17%	48%	0.69	27%	2940	Negative
Medellin	Colombia	264	43,58	36%	20	26%	10%	0%	63%	0.60	28%	18079	Negative
Boston	USA	265	43,57	32%	63	28%	4%	6%	62%	0.71	23%	5124	Negative
Philadelphia	USA	266	43,56	32%	63	27%	5%	1%	67%	0.73	20%	5122	Negative
Maasgouw	Netherlands	267	43,47	35%	363	16%	19%	12%	52%	0.67	29%	976	Negative
Haarlemmermeer	Netherlands	268	43,32	37%	224	17%	20%	5%	58%	0.65	29%	1639	Negative
Zhenjiang	China	269	42,92	39%	152	15%	24%	7%	54%	0.66	32%	2582	Negative
Koggenland	Netherlands	270	42,70	51%	495	8%	43%	4%	45%	0.75	53%	1028	Positive
New Orleans	USA	271	42,47	35%	182	25%	11%	4%	60%	0.60	30%	1939	Positive
Papendrecht	Netherlands	272	42,45	31%	127	19%	12%	18%	51%	0.75	22%	2415	Negative
Venice	Italy	273	42,14	34%	90	19%	15%	12%	54%	0.68	22%	3766	Positive
Malmö	Sweden	274	41,90	36%	105	17%	19%	6%	59%	0.65	28%	3397	Negative
Turin	Italy	275	41,27	33%	40	23%	10%	2%	65%	0.66	21%	8231	Positive
Ho Chi Minh City	Vietnam	276	40,97	40%	40	23%	17%	7%	53%	0.53	32%	10000	Negative
Lansingerland	Netherlands	277	40,85	41%	264	16%	26%	5%	54%	0.59	33%	1556	Negative
Cape Town	South Africa	278	40,81	34%	60	23%	12%	2%	64%	0.64	22%	5711	Negative
Hangzhou	China	279	40,61	35%	105	26%	8%	6%	59%	0.60	24%	3313	Positive
Marseille	France	280	40,39	37%	73	33%	4%	4%	59%	0.53	28%	5044	Negative

All cities with data 281-300

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Langedijk	Netherlands	281	40,07	32%	199	17%	14%	10%	58%	0.67	26%	1596	Negative
Hillegom	Netherlands	282	39,71	36%	225	15%	21%	2%	62%	0.65	28%	1589	Negative
Seoul	South Korea	283	39,65	31%	18	27%	5%	5%	64%	0.71	15%	17857	Negative
Mumbai	India	284	39,25	36%	11	19%	16%	8%	56%	0.61	23%	31953	Positive
Bengaluru	India	285	39,14	34%	19	26%	8%	2%	64%	0.59	24%	18314	Negative
Hendrik-Ido-Ambacht	Netherlands	286	38,05	27%	109	18%	9%	10%	62%	0.75	20%	2525	Positive
Shenzhen	China	287	38,05	32%	33	28%	4%	4%	64%	0.64	18%	9799	Negative
Bogotá	Colombia	288	37,86	33%	13	19%	14%	1%	66%	0.68	14%	24924	Positive
Dublin	Ireland	289	37,85	30%	65	15%	15%	3%	67%	0.72	21%	4629	Negative
Frankfurt am Main	Germany	290	37,74	36%	9	18%	18%	0%	64%	0.55	26%	39665	Positive
Kaag en Braassem	Netherlands	291	37,52	34%	230	12%	21%	17%	50%	0.74	22%	1456	Negative
Copenhagen	Denmark	292	37,33	30%	45	23%	7%	7%	63%	0.67	20%	6653	Negative
Amsterdam	Netherlands	293	37,32	28%	57	23%	6%	14%	58%	0.73	16%	5005	Negative
Montreal	Canada	294	35,79	28%	57	22%	6%	8%	64%	0.69	19%	4895	Negative
Bari	Italy	295	35,67	30%	56	21%	9%	7%	63%	0.66	18%	5318	Positive
Bangkok	Thailand	296	35,32	32%	37	20%	12%	4%	64%	0.59	23%	8527	Negative
Kuala Lumpur	Malaysia	297	35,18	33%	42	26%	7%	2%	66%	0.57	22%	7784	Negative
Wuhan	China	298	35,05	34%	48	18%	16%	9%	57%	0.57	25%	7083	Positive
Singapore	Singapore	299	34,85	35%	21	25%	9%	7%	59%	0.52	24%	16211	Positive
Zwijndrecht	Netherlands	300	34,72	27%	123	19%	8%	16%	57%	0.73	16%	2168	Positive

All cities with data 301-320

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Salvador	Brazil	301	33,71	31%	25	17%	14%	7%	61%	0.64	16%	12598	Negative
Naples	Italy	302	33,44	30%	38	15%	15%	3%	67%	0.69	15%	7937	Negative
Madrid	Spain	303	32,92	30%	27	18%	12%	0%	70%	0.66	15%	11123	Negative
Edmonton	Canada	304	32,49	29%	106	13%	16%	2%	68%	0.68	18%	2782	Negative
Frederiksberg	Denmark	305	31,12	25%	28	23%	2%	1%	74%	0.68	15%	8832	Positive
Addis Ababa	Ethiopia	306	30,72	32%	24	14%	18%	0%	68%	0.60	18%	13011	Negative
Jaipur	India	307	30,55	33%	66	12%	21%	0%	67%	0.57	23%	4945	Negative
Mexico City	Mexico	308	30,11	28%	30	20%	8%	0%	72%	0.67	10%	9269	Negative
Delhi NCT	India	309	28,46	29%	16	20%	9%	1%	69%	0.58	16%	18552	Negative
Denver (CO)	USA	310	28,26	25%	101	15%	10%	1%	74%	0.67	18%	2439	Positive
Milan Metropolitan	Italy	311	27,22	26%	29	14%	12%	0%	74%	0.65	16%	8809	Positive
Chennai	India	312	27,00	28%	16	14%	14%	7%	65%	0.61	17%	16916	Negative
Istanbul	Turkey	313	26,28	28%	24	18%	10%	5%	68%	0.61	12%	11525	Negative
Surat	India	314	25,18	27%	17	18%	8%	6%	67%	0.61	12%	15402	Positive
Rotterdam	Netherlands	315	24,47	25%	100	17%	8%	19%	56%	0.63	12%	2506	Negative
New York City	USA	316	22,46	23%	19	20%	3%	6%	71%	0.64	9%	12066	Negative
Catania	Italy	317	21,77	23%	40	16%	7%	1%	76%	0.67	9%	5788	Negative
Lisbon Metropolitan	Portugal	318	21,67	25%	36	15%	10%	3%	72%	0.58	13%	7016	Negative
Hyderabad	India	319	21,33	25%	15	21%	4%	3%	73%	0.59	8%	16548	Negative
Chicago	USA	320	20,35	21%	42	16%	5%	1%	78%	0.66	12%	5025	Negative

All cities with data 321-340

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Kolkata	India	321	19,15	21%	7	16%	5%	9%	70%	0.64	11%	31065	Negative
Yokohama	Japan	322	18,95	22%	27	16%	6%	5%	73%	0.65	8%	8129	Positive
Quezon City	Philippines	323	17,70	23%	11	20%	4%	1%	75%	0.53	10%	20562	Negative
Tokyo	Japan	324	15,23	20%	20	14%	6%	4%	76%	0.66	5%	10350	Negative
Abidjan	Cote d'Ivoire	325	14,78	24%	20	6%	18%	8%	68%	0.49	6%	12259	Negative
Dakar	Senegal	326	14,33	20%	19	1%	18%	8%	73%	0.57	0%	10613	Negative
Barcelona Metropolitan	Spain	327	12,64	21%	12	18%	4%	5%	73%	0.48	9%	17834	Negative
Athens	Greece	328	12,30	24%	46	17%	7%	4%	72%	0.45	8%	5271	Negative
Paris	France	329	12,17	15%	7	13%	2%	2%	83%	0.70	6%	21901	Positive
Tel Aviv	Israel	330	11,89	18%	20	12%	6%	3%	79%	0.62	7%	9186	Negative
Jakarta	Indonesia	331	11,36	18%	12	14%	4%	4%	78%	0.58	7%	15409	Negative
Los Angeles	USA	332	7,55	15%	42	13%	3%	0%	84%	0.59	5%	3691	Negative
Lagos	Nigeria	333	6,77	14%	17	2%	12%	10%	76%	0.46	0%	8293	Negative
Ahmedabad	India	334	5,79	18%	7	10%	8%	2%	80%	0.53	1%	23963	Negative
Buenos Aires	Argentina	335	5,72	13%	10	10%	4%	3%	83%	0.65	4%	12914	Negative
San Francisco	USA	336	5,65	16%	21	12%	3%	3%	82%	0.52	5%	7375	Negative
Santiago	Chile	337	5,32	15%	20	10%	5%	0%	85%	0.61	1%	7591	Positive
Guadalajara	Mexico	338	3,56	12%	14	9%	3%	0%	87%	0.62	2%	8605	Negative
Amman	Jordan	339	2,70	15%	16	9%	7%	0%	85%	0.41	2%	9826	Negative
Accrea	Ghana	340	1,34	11%	8	5%	6%	4%	85%	0.44	0%	13563	Negative

All cities with data 341-344

City	Country	Ranking	Green Index	Green %	Green per capita (m2)	Tree %	Grass %	Water %	Other %	Vitality	Distribution	Population density	Change factor
Karachi	Pakistan	341	0,56	7%	3	3%	4%	1%	92%	0,44	0%	23570	Negative
Lima	Peru	342	0,07	4%	4	1%	3%	1%	95%	0,39	0%	9672	Negative
Dubai	United Arab Emirates	343	0,01	3%	7	2%	1%	4%	93%	0,47	0%	4314	Negative
Riyadh	Saudi Arabia	344	0,00	1%	2	1%	0%	0%	99%	0,61	0%	6007	Positive



About HUGSI.green

The Husqvarna Urban Green Space Insights (HUGSI) is an AI-powered satellite solution that indicates how green cities are by reviewing their green areas and how they are developing. The aim is to contribute to the protection and growth as well as the maintenance of green areas in cities. Since 2019, HUGSI has conducted annual surveys of a growing number of cities in the world. The cities themselves apply to be part of HUGSI. All data is open and published at www.hugsi.green. The data presented in this year's report is based on the cities' best day, from a vegetation perspective, from previous calendar year.

About Husqvarna

Husqvarna, a brand within Husqvarna Group, is a market leader in innovative and high-quality products and services for shaping green spaces in parks, forests and gardens. Since 1689, Swedish-born Husqvarna has a strong focus on research and development and is a pioneer in robotic lawn mowers and chainsaws. Today, the product portfolio consists of the next generation of robotic mowers, riders, chainsaws and trimmers for professional as well as private use. Sustainable value creation, product innovation and digitalization remain important for the journey ahead. Husqvarna products are sold in more than 100 countries.