New York, NY: The standard block in Manhattan is **about 264 by 900 feet (80 m × 274 m)**

Our direction: 80m blocks

From the Southern tip of Central Park to the Northern tip (59th to 110th): 51 blocks

NYC speed limit is 25mph (40.23 kmph), 11.176 meters per second

The average length of a north-south block in Manhattan runs **approximately 264 feet**, which means there are about **20 blocks per mile**.

Most yellow lights in New York City last just [3 seconds](https://nytrafficticket.com/how-long-should-a-traffic-light-remain-in-the-yellow-phase/) as well

<https://www.newyorksafetycouncil.com/articles/short-yellow-lights-in-new-york/>

Since it is only one-way traffic entering the road for the most part, most lights use the cycle: 93 green, 3 yellow, 24 red, repeat:

<https://nacto.org/publication/urban-street-design-guide/intersection-design-elements/traffic-signals/signal-cycle-lengths/>

Few exceptions: 59th (0), 79th (20), 110th (51) - all others one way

Assume they all run on the same cycle

Most intersecting streets are 60ft (18.3m)

Some are 100 ft (30.5 ft): 72nd (13), 79th (20), 86th (27), 96th (37), 106th (47)

<https://thegreatestgrid.mcny.org/greatest-grid/making-the-plan/12>

Assuming that the signals are timed for maximum people to get through, each signal turns green 7.16 seconds apart → round down to 7

* <https://www.nrel.gov/transportation/secure-transportation-data/tsdc-california-travel-survey.html>
* <https://www.nrel.gov/transportation/secure-transportation-data/tsdc-drive-cycle-data.html>
* <https://www.epa.gov/vehicle-and-fuel-emissions-testing/dynamometer-drive-schedules>
* Powertrain blockset, a matlab library. Drive Cycle Source block

<https://www.mathworks.com/products/powertrain.html>