Congestion Pricing Benefits: Save Lives, Save Time



By CHEKPEDS



Summary

Congestion pricing – similar to tolling roads – is successfully used in London, Singapore and other leading cities to reduce vehicular congestion in their central business district (CBD).

Congestion pricing is proven to reduce traffic congestion and to improve air quality – thus reducing related health issues; it improves quality of life for drivers and transit users who spend less time commuting, and it helps fund better transit for all; deliver value to car and transit

commuters alike. Notably, Congestion Pricing <u>significantly reduces crashes</u> – especially motorist related - and could bring New York City closer to reaching its vital goal of Vision Zero¹.

While Congestion Pricing's value to transit users is well documented, the research here establishes the value of congestion pricing for those drivers who will be paying tolls. This report shows that Congestion Pricing could reduce the number of traffic fatalities by 71 and injuries by 17,000 over two years, of which 11,900 are injuries to motorists. Reductions in CO2 emissions are estimated to reach 16%². And the savings in commute time for motorists add up to <u>five days annually</u> per motorist. A 15% reduction in traffic means a potential 15% improvement in ease of parking. These are substantial benefits for motorists.

Contrary to certain claims, Congestion Pricing is <u>not</u> a regressive policy. Many roads and highways are already tolled in the region without raising such criticism. The proportion of commuters who drive to the Central Business District (CBD) in Manhattan is typically very small, and with few exceptions, these drivers are wealthier than transit riders³. For low-income commuters who must drive because they live in transit deserts, Congestion Pricing will fund other transit options such as express buses that will reduce the need to drive.

CHEKPEDS is a Manhattan- based non-profit advocacy group founded in 2005. It focuses on pedestrian safety, quality of life for pedestrians and reducing traffic congestion.

¹ Vision Zero (New York City) is a program created by Mayor De Blasio in 2014 to eliminate all traffic deaths and serious injuries on New York City Streets by 2024

² November 2018- Balanced Transportation Analyzer (BTA) – Charles Komanoff

³ 2018 Congestion Pricing: An Analysis of New York State Legislative Districts - Tri- State Transportation Campaign



Google maps, CBD=Central Business District, Manhattan below 60th Street.

Saving Lives

London implemented congestion pricing 10 years ago and reduced its road traffic by 15%. In 2015, Lancaster University Management School⁴ studied the effect Congestion Pricing had on traffic safety and concluded that it reduced crashes leading to fatalities and injuries by 40% in the congestion zone and 13% in the adjacent counties. The study attributes these remarkable results to the fact that with less congestion, trips are more predictable and thus less stressful for drivers.

These results are consistent with a study of the link between crime and extreme traffic recently published in <u>the Journal of Public Economics</u> - Traffic and Crime.⁵ The analysis aimed at estimating the psychological cost of traffic by combining police incident reports with observations of local traffic data in Los Angeles from 2011 to 2015. The conclusion was that extreme traffic increases the incidence of domestic violence by 9%. This is another dimension of the catastrophic human costs of driving in congestion. Chekpeds studied the potential effect Congestion Pricing would have on traffic safety and Vision Zero if it was implemented in New York.



⁴ 2014/2015 – Traffic Accidents and the London Congestion Charge – Department of Economics, Lancaster University Management School

⁵ April 2018 – Traffic and Crime, Journal of Public Economics

POTENTIAL INJURY REDUCTION BY MODE ATTRIBUTABLE TO CONGESTION PRICING



Methodology: the crash numbers come from NYC Open Data, Traffic Collisions (provided by NYPD November 2016 to November 2018). Using Crashmapper.org, the data was disaggregated in fatalities and injuries, pedestrians, bicyclists and motorists. It was further filtered by Boroughs, State Assembly and State Senatorial districts. The potential fatality and injury reductions in New York City were then determined by applying to New York data the crash reduction rates found in London (40% in the congestion zone and 13% outside of it).

The crash rate reduction outside of the congestion zone may be under estimated: the congestion zone crash rate reduction applies to all crashes in the congestion zone, regardless of the drivers' residence. With drivers in the congestion zone coming from other counties, many of the averted crashes in the zone will benefit commuters who live outside the congestion zone.

Appendix A shows the statistics for each of the Boroughs of New York city. Appendix B shows the statistics for each of the State legislative districts in New York City.

Saving Time

In June 2018, the NYC Department of Transportation published a study of the effects of congestion on vehicular speed here ⁶ and concluded that the travel speed in the CBD has decreased from 9.1 to 7.2 miles per hour or 20.1 % over the 7 years from 2010 to 2016. Residents of the Tri State Region experience the second longest commute in the country.

Congestion adds time to travel in a second, more insidious way: by making the trip duration unpredictable, it forces drivers to leave much earlier in order to keep appointments and family commitments - like picking up the children from school. That additional time is difficult to quantify as it is usually not accounted for in survey or statistics.

The reduction in trip duration demonstrated below have been derived exclusively from traffic speeds and thus are underestimated. They do not take into account the improvements in predictability that Congestion Pricing will provide.



⁶ June 2018- New York City Mobility Report – New York City Department of Transportation

Methodology: using Google maps, we calculated the two-way trip duration from each legislator's district office to a central point in the CBD (34th Street and 5th Avenue). The trip was planned for a Monday morning at 7 a.m. That itinerary was then divided between two segments, one in the congestion zone, and one outside of it, in order to apply the proper speed reduction obtained from the assumptions contained in the Balanced Transportation Analyzer (BTA)⁷, (22.6% and 7.6% respectively). "Average commute time" is the average of lowest and highest times for that trip. "Time wasted in congestion" is the minimum daily commute time subtracted from the average daily commute time. The proportion of commuters who drive to the CBD was obtained from the 2017 Tri-State Transportation Campaign. The number of minutes saved by day was then multiplied by 250 working days a year, and divided by 480 minutes for each 8-hour working day saved.

Conclusion

For those commuters who want to continue to drive to the CBD, the benefits of Congestion Pricing include safer trips, shorter trips and predictable commute time. For those commuters who would like to switch to mass transit, congestion pricing offers the best way to bring public transportation to transit deserts and make transit faster and more reliable. Enacting Congestion Pricing is the <u>one proven way</u> to achieve these benefits.



⁷ ⁷November 2018- Balanced Transportation Analyzer (BTA) – Charles Komanoff











Sources : CHEKPEDS, Tri State Transportation Campaign 2017; Transport For London, Carbon Tax Cent Google maps, CBD=Central Business District, Manhattan below 60th Street.



Appendix B: Legislative District Summaries

Projected Crash and Time Reductions resulting from Congestion Pricing - by county and legislative office

| county | office name | district # | elected name | % crash reduction | reduction in fatalities # | reduction in injuries # | drivers' time save per week (min) | drivers' time saved per year (day) | % drivers commute to CBD (2017- TSTC) | average daily 2- way commute (min) |
|--|--|---|---|--|--|--|--|--|--|--|
| Manhattan CBD | Borough President | ** | Gale Brewer | 40% | 17 | 3,533 | 47 | 5 | ** | 42 |
| Manhattan non CBD | Borough President | ** | Gale Brewer | 13% | 5 | 996 | 46 | 5 | ** | 72 |
| Manhattan | Borough President | ** | Gale Brewer | 27% | 22 | 4,529 | ** | ** | ** | ** |
| Bronx | Borough President | ** | Ruben Diaz Jr. | 13% | 11 | 2,577 | 53 | 5 | ** | 105 |
| Brooklyn | Borough President | ** | Eric Adams | 13% | 16 | 4,764 | 53 | 5 | ** | 105 |
| Staten Island | Borough President | ** | James Oddo | 13% | 3 | 735 | 65 | 7 | ** | 137 |
| Queens | Borough President | ** | Melinda Katz | 13% | 19 | 4,424 | 62 | 6 | ** | 130 |
| | | | Citywide | | 71 | 17,029 | | | | |
| Bronx & New York Counties | Senator | S29 | Jose M. Serrano | 13% | 3 | 673 | 35 | 4 | 3.8% | 62 |
| Bronx & Westchester Counties | Senator | S34 | Alessandra Biaggi | 13% | 4 | 609 | 59 | 6 | 5.2% | 125 |
| Bronx & Westchester Counties | Senator | S36 | Jamaal T. Bailey | 13% | 2 | 430 | 59 | 6 | 3.6% | 125 |
| Bronx County | Assembly Member | A83 | Carl Heastie | 13% | 2 | 239 | 61 | 6 | 2.5% | 130 |
| Bronx County | Assembly Member | A84 | Carmen E. Arroyo | 13% | 2 | 343 | 36 | 4 | 2.2% | 65 |
| Bronx County | Assembly Member | A81 | Jeffrey Dinowitz | 13% | 2 | 244 | 43 | 4 | 5.1% | 83 |
| Bronx County | Assembly Member | A78 | Jose Rivera | 13% | 1 | 163 | 47 | 5 | 2.3% | 95 |
| Bronx County | Assembly Member | A87 | Karines Reyes | 13% | 2 | 185 | 53 | 6 | 3.1% | 110 |
| Bronx County | Assembly Member | A77 | Latoya Joyner | 13% | 1 | 249 | 37 | 4 | 3.4% | 67 |
| Bronx County | Assembly Member | A85 | Marcos Crespo | 13% | 1 | 198 | 47 | 5 | 4.2% | 95 |
| Bronx County | Assembly Member | A79 | Michael A. Blake | 13% | 1 | 194 | 35 | 4 | 3.0% | 62 |
| Bronx County | Assembly Member | A82 | Michael Bendetto | 13% | 2 | 250 | 57 | 6 | 5.3% | 120 |
| Bronx County | Assembly Member | A80 | Nathalia Fernandez | 13% | 1 | 211 | 61 | 6 | 3.4% | 130 |
| Bronx County | Assembly Member | A86 | Victor Pichardo | 13% | 2 | 282 | 42 | 4 | 2.2% | 81 |
| Bronx County | Senator | S33 | Gustavo Rivera | 13% | 3 | 604 | 45 | 5 | 2.5% | 90 |
| Bronx County | Senator | S32 | Luis R.Sepúlveda | 13% | 2 | 439 | 39 | 4 | 2.8% | 74 |
| | | | | | | | drivers' time | drivers' time | % drivers | average daily 2- |
| county | office name | district # | elected name | % crash reduction | reduction in fatalities # | reduction in injuries # | save per week (min) | saved per year (day) | commute to CBD (2017-TSTC) | way commute (min) |
| Kings & New York Counties | Senator | S26 | Brian P. Kavanagh | 13% | 3 | 590 | 50 | 5 | 6.5% | 53 |
| Kings & Richmond Counties | Senator | S23 | Diane J. Savino | 13% | | | | 7 | | 145 |
| *************************************** | | | | 10 /0 | 2 | 486 | 66 | | 3.1% | |
| Kinas County | Assembly Member | A60 | 000000000000000000000000000000000000000 | 08080808 | | | 99999999999 | 00000000000 | 000000000000000000000000000000000000000 | 9999999999 |
| | Assembly Member Assembly Member | A60 A43 | Charles Barron | 13% | 2 | 344 | 59 59 | 6 | 2.2% | 125 |
| Kings County | Assembly Member | A60 A43 A54 | 000000000000000000000000000000000000000 | 08080808 | | | 99999999999 | 00000000000 | 000000000000000000000000000000000000000 | 9999999999 |
| Kings County Kings County Kings County Kings County | Assembly Member Assembly Member | A43 A54 | Charles Barron Diana C. Richardson | 13% 13% | 2 1 | 344 236 | 59 65 44 | 6 7 | 2.2% 1.6% 1.6% | 125 93 |
| Kings County Kings County Kings County | Assembly Member Assembly Member Assembly Member | A43 A54 A51 | Charles Barron Diana C. Richardson Erik Martin Dilan Feliz Ortiz | 13% 13% 13% 13% 13% | 2 1 2 1 | 344 236 231 253 | 59 65 44 61 | 6 7 5 6 | 2.2% 1.6% 1.6% 2.1% | 125 93 86 81 |
| Kings County Kings County | Assembly Member Assembly Member | A43 A54 | Charles Barron Diana C. Richardson Erik Martin Dilan | 13% 13% 13% 13% | 2 1 2 | 344 236 231 | 59 65 44 | 6 7 5 | 2.2% 1.6% 1.6% | 125 93 86 |
| Kings County Kings County Kings County Kings County Kings County | Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member | A43 A54 A51 A41 | Charles Barron Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams | 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 | 344 236 231 253 185 | 59 65 44 61 76 | 6 7 5 6 8 | 2.2% 1.6% 1.6% 2.1% 3.2% | 125 93 86 81 120 |
| Kings County Kings County Kings County Kings County Kings County Kings County | Assembly Member Assembly Member Assembly Member Assembly Member | A43 A54 A51 A41 A59 | Charles Barron Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein | 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 2 | 344 236 231 253 185 283 | 59 65 44 61 76 79 | 6 7 5 6 8 8 | 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% | 125 93 86 81 120 130 |
| Kings County Kings County Kings County Kings County Kings County Kings County Kings County | Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member | A43 A54 A51 A41 A59 A52 A50 | Charles Barron Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol | 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 2 1 | 344 236 231 253 185 283 269 | 59 65 44 61 76 79 47 29 | 6 7 5 6 8 8 5 5 | 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% | 125 93 86 81 120 130 65 |
| Kings County Kings County Kings County Kings County Kings County Kings County Kings County | Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member | A43 A54 A51 A41 A59 A52 | Charles Barron Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon | 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 2 1 2 2 | 344 236 231 253 185 283 269 267 | 59 65 44 61 76 79 47 | 6 7 5 6 8 8 5 3 | 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% | 125 93 86 81 120 130 65 44 |
| Kings County Kings County Kings County Kings County Kings County Kings County Kings County Kings County | Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member | A43 A54 A51 A41 A59 A52 A50 A55 | Charles Barron Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 1 2 2 1 2 2 2 | 344 236 231 253 185 283 269 267 353 | 59 59 65 44 61 76 79 47 29 57 | 6 7 5 6 8 8 5 3 6 | 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% 2.1% | 125 93 86 81 120 130 65 44 120 |
| Kings County Kings County Kings County Kings County Kings County Kings County Kings County Kings County Kings County | Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member | A43 A54 A51 A41 A59 A52 A50 A55 A53 | Charles Barro Charles Barro Charles Barro Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker Maritza Davila | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 1 2 2 2 2 2 | 344 236 231 253 185 283 269 267 353 243 | 59 59 65 44 61 76 79 47 29 57 39 | 6 7 5 6 8 8 5 3 6 4 | 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% 2.1% 1.6% | 125 93 86 81 120 130 65 44 120 72 |
| Kings County Kings County | Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member | A43 A54 A51 A41 A59 A52 A50 A55 A53 A46 | Charles Barron Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker Maritza Davila Mathylde Frontus | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 1 2 2 1 2 2 2 1 | 344 236 231 253 185 283 269 267 353 243 198 | 59 59 65 44 61 76 79 47 29 57 39 72 | 6 7 5 6 8 8 5 3 6 4 7 | 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% 2.1% 2.1% 1.6% 3.1% | 125 93 86 81 120 130 65 44 120 72 72 110 |
| Kings County Kings County | Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member | A43 A54 A51 A41 A59 A52 A50 A55 A53 A46 A58 | Charles Barrow Charles Barrow Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker Maritza Davila Mathyde Frontus N. Nick Perry | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 1 1 | 344 236 231 253 185 283 269 267 353 243 198 347 | 59 65 44 61 76 79 47 29 57 39 72 72 72 | 6 7 5 6 8 8 8 5 3 6 4 7 7 | 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% 2.1% 2.1% 1.6% 3.1% 2.3% | 125 93 86 81 120 130 65 44 120 72 110 110 |
| Kings County Kings County | Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member Assembly Member | A43 A54 A51 A41 A59 A52 A50 A55 A53 A46 A58 A49 | Charles Barro Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Lattrice Monique Walker Maritya Davila Mathylde Frontus N. Nick Peny Peter Abbate Jr. | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 1 2 2 2 1 1 1 1 | 344 236 231 253 185 283 269 267 353 243 198 347 133 | 59 65 44 61 76 79 47 29 57 39 72 72 63 | 6 7 5 6 8 8 5 3 6 4 7 7 7 7 | 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% 2.1% 2.1% 3.1% 2.3% 3.2% | 125 93 86 81 120 130 65 44 120 72 110 110 86 |
| Kings County Kings County | Assembly Member Assembly Member | A43 A54 A51 A41 A59 A52 A50 A55 A53 A46 A58 A49 A44 | Charles Barro Charles Barro Charles Barro Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker Maritza Davila Mathylde Frontus N. Nick Perry Peler Abbate Jr. Robert C. Carroll | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 1 2 2 2 1 2 2 2 1 1 1 1 1 | 344 236 231 253 265 283 269 267 353 243 198 347 133 149 | 59 65 44 61 76 79 47 29 57 39 72 72 63 56 | 6 7 5 6 8 8 5 3 6 4 7 7 7 6 | 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% 2.1% 1.6% 3.1% 2.3% 3.2% 2.4% | 125 93 86 81 120 130 65 44 120 72 110 110 86 69 |
| Kings County Kings County Kings County Kings County | Assembly Member Assembly Member | A43 A54 A51 A41 A59 A52 A50 A55 A53 A46 A58 A49 A44 A42 | Charles Barro Charles Barro Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker Maritza Davila Mathylde Frontus N. Nick Peny Peter Abbate Jr. Robert C. carroll Robertes Eichotte | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 1 2 2 2 1 1 2 2 1 1 1 1 1 1 | 344 236 231 253 185 283 269 267 353 243 198 347 133 149 248 | 59 59 65 44 61 76 79 47 29 57 39 72 72 63 56 66 | 6 6 5 6 8 8 5 3 6 4 7 7 7 6 7 7 6 7 | 2.2% 1.6% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% 1.6% 3.1% 2.3% 3.2% 2.4% 1.9% | 125 93 86 81 120 130 65 44 120 72 110 110 86 69 95 |
| Kings County Kings County | Assembly Member Assembly Member | A43 A54 A51 A41 A59 A52 A50 A55 A53 A46 A58 A49 A44 A42 A48 | Charles Barro Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker Martiza Davila Mathylde Frontus N. Nick Perry Peter Abbate Jr. Robert C. Carroll Rodneyse Bichotte Simcha Eichenstein | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 1 1 1 1 1 | 344 344 236 231 253 185 283 269 267 353 243 198 347 133 149 248 151 | 59 65 44 61 76 79 47 29 57 39 72 72 63 56 66 66 62 | 6 7 5 6 8 8 5 3 6 4 7 7 7 7 6 7 6 | 2.2% 1.6% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% 2.1% 1.6% 3.1% 2.3% 3.2% 2.4% 1.9% 2.7% | 125 93 86 81 120 130 65 44 120 72 110 110 86 69 95 83 |
| Kings County Kings County | Assembly Member Assembly Member | A43 A54 A51 A59 A52 A50 A55 A53 A46 A58 A49 A44 A42 A48 A45 | Charles Barro Charles Barro Charles Barro Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Joseph R. Lentol Joseph R. Lentol Latrice Monique Walker Mathylde Frontus N. Nick Penry Peter Abbale Jr. Robert C. Carroll Rodneyse Bichotte Simcha Eichenstein Steven Cymbrowitz | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 1 2 2 1 2 2 1 1 1 1 1 1 1 1 | 344 236 231 253 283 269 267 353 243 198 347 133 149 248 151 185 | 599 65 44 61 76 79 47 29 57 39 72 63 56 66 66 62 72 | 6 7 5 6 8 8 8 5 3 6 4 7 7 7 6 7 6 7 | 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% 1.6% 3.2% 2.1% 1.6% 3.1% 3.2% 2.4% 1.9% 2.4% 1.9% 2.2% | 125 93 86 81 120 130 65 44 120 72 110 110 86 69 95 83 110 |
| Kings County Kings County | Assembly Member Assembly Member | A43 A54 A51 A41 A59 A52 A50 A55 A53 A46 A58 A49 A44 A42 A48 A45 A56 | Charles Barro Charles Barro Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker Maritza Davila Mathylde Frontus N. Nick Penry Peter Abbale Jr. Robert C. Carroll Rodneyse Bichotte Simcha Eichenstein Siteven Cymbrowitz Tremaine S. Wright | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 1 2 2 2 1 1 1 1 1 1 1 1 1 1 | 344 344 236 231 253 185 283 269 267 353 269 267 353 243 198 347 133 198 347 133 149 248 151 155 239 | 59 59 65 44 61 76 79 47 29 57 39 72 72 63 56 66 62 72 43 | 6 7 5 6 8 8 8 5 3 6 4 7 7 7 6 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 7 6 7 | 2.2% 2.2% 1.6% 1.6% 2.1% 2.1% 2.5% 2.0% 2.1% 2.1% 2.1% 2.1% 2.3% 3.1% 2.3% 3.1% 2.3% 3.2% 4.5% 2.4% 1.9% 2.4% 1.9% | 125 93 86 81 120 130 65 44 120 72 110 110 86 69 95 83 110 84 |
| Kings County Kings County | Assembly Member Assembly Member | A43 A54 A51 A41 A59 A52 A50 A55 A53 A46 A58 A46 A58 A49 A44 A42 A48 A45 A56 A57 | Charles Barro Charles Barro Diana C, Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R, Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker Martyde Frontus N. Nick Perry Peter Abbate Jr. Robert C, Carroll Rocheryse Bichotte Simcha Eichenstein Steven Cymbrowitz Termains SWright Walter T, Mosley | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 1 2 2 2 1 1 2 2 2 1 1 1 1 1 | 344 236 231 253 269 267 353 243 269 267 353 243 198 347 133 149 248 151 151 185 239 271 | 599 65 44 61 76 79 47 29 57 39 72 72 63 56 66 62 72 43 56 | 6 7 5 6 8 8 8 5 3 6 4 7 7 7 6 7 6 7 6 7 6 7 4 6 | 2.2% 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% 2.1% 2.1% 2.1% 2.1% 2.3% 3.2% 2.4% 2.3% 3.2% 2.4% 1.9% 2.7% 2.6% | 125 93 86 81 120 130 65 81 120 130 65 81 110 86 69 95 83 110 84 65 |
| Kings County Kings County | Assembly Member Assembly Member | A43 A54 A51 A59 A52 A50 A55 A53 A46 A58 A49 A44 A42 A48 A42 A48 A45 A56 A57 A47 | Charles Barro Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker Martza Davila Mathylde Frontus N. Nick Perry Peter Abbate Jr. Robert C. Carroll Rodneyse Bichotte Simcha Eichenstein Steven Cymbrowitz Tremaine S.Wright Walter T. Mosley William Colton | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 | 344 344 236 231 253 185 283 269 267 353 243 198 347 133 149 248 151 185 239 271 119 | 599 65 44 61 76 79 47 29 57 39 72 72 63 56 66 66 62 72 43 56 72 | 6 7 5 6 8 8 8 5 3 6 4 7 7 7 6 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 7 6 7 | 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.1% 1.6% 2.1% 1.6% 3.1% 2.3% 3.2% 2.4% 1.9% 2.3% 3.2% 2.4% 1.9% 2.7% | 125 93 86 81 120 130 65 44 120 72 110 86 69 95 83 110 84 65 110 |
| Kings County Kings County | Assembly Member Assembly Member | A43 A54 A51 A59 A52 A50 A55 A53 A46 A53 A46 A58 A49 A44 A42 A48 A42 A48 A45 A56 A57 A47 S22 | Charles Barro Charles Barro Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker Martiza Davila Mathylde Frontus N. Nick Penry Peter Abbate Jr. Robert C. Carroll Rodneyse Bichotte Simcha Eichenstein Siteven Cymbrowitz Tremaine S.Wright Walter T. Mosley William Cotton Andrew Gounardes | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 2 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2 | 344 344 236 231 253 185 283 269 267 353 243 198 347 133 149 248 151 185 239 271 185 239 271 119 409 | 599 599 65 44 61 76 79 47 29 57 72 72 63 39 72 72 63 56 66 62 72 43 56 63 56 66 62 72 43 56 63 | 6 7 5 6 8 8 5 3 6 4 7 7 7 6 7 7 6 7 7 6 7 7 6 7 7 7 7 7 | 2.2% 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% 2.1% 2.1% 2.1% 3.1% 2.3% 3.1% 2.3% 3.2% 4.4% 1.9% 2.4% 1.9% 2.4% 1.9% 2.6% 3.6% | 125 93 86 81 120 130 65 44 120 72 71 110 110 86 95 83 110 84 65 110 88 |
| Kings County Kings County | Assembly Member Assembly Member | A43 A54 A51 A59 A52 A50 A55 A53 A46 A58 A46 A58 A49 A44 A42 A48 A45 A56 A56 A57 A47 S22 S18 | Charles Barro Charles Barro Diana C, Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R, Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker Maritza Davila Mathyde Frontus N. Nick Perry Peter Abbate Jr. Robert C. Carroll Rocheryse Bichotte Simcha Eichenstein Steven Cymbrowitz Tremaine SWright Walter T, Mosley William Cotton Andrew Gounardes Julia Salazar | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 2 1 2 2 1 2 2 2 1 2 2 2 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 1 2 2 2 2 2 1 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 2 1 2 | 344 236 231 253 185 283 269 267 353 243 198 347 133 198 347 133 198 347 133 149 248 151 185 239 271 119 409 645 | 599 65 44 61 76 79 47 29 57 39 72 72 63 56 66 62 72 43 56 66 62 72 43 56 63 51 | 6 7 5 6 8 8 8 5 3 6 4 7 7 7 6 7 6 7 6 7 6 7 6 7 7 6 7 7 5 5 | 2.2% 2.2% 1.6% 1.6% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1 | 125 93 86 81 120 130 65 44 120 72 110 110 86 69 95 83 110 84 65 110 88 81 110 |
| Kings County Kings County | Assembly Member Assembly Member Senator Senator | A43 A54 A51 A41 A59 A52 A50 A55 A53 A46 A58 A49 A44 A42 A48 A45 A56 A57 A47 S22 S18 S21 | Charles Barro Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Joseph R. Lentol Latrice Monique Walker Martya Davila Mathylde Frontus N. Nick Perry Peter Abbate Jr. Robert C. Carroll Rodneyse Bichotte Simcha Eichenstein Steven Cymbrowitz Tremaine S.Wright Walter T. Mosley William Cotton Andrew Gounardes Julia Salazar Kevin S. Parker | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 2 1 2 2 1 2 2 2 1 2 2 2 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 1 2 | 344 344 236 231 269 269 267 353 243 198 347 133 149 248 151 185 239 271 119 409 645 659 | 59 65 44 61 76 79 47 29 57 39 72 72 63 56 66 62 72 43 56 62 72 43 56 51 66 | 6 7 5 6 8 8 8 5 3 6 4 7 7 7 6 7 6 7 6 7 6 7 7 5 7 7 5 7 | 2.2% 2.2% 1.6% 1.6% 2.1% 3.2% 4.5% 2.0% 2.1% 2.1% 2.1% 2.3% 3.2% 2.4% 3.2% 2.4% 2.3% 3.2% 2.4% 2.7% 2.8% 1.9% 2.7% 2.6% 1.9% 2.7% 1.9% 2.1% | 125 93 86 81 120 130 65 44 120 72 110 86 69 95 83 110 84 65 110 88 101 95 |
| Kings County Kings County | Assembly Member Assembly Member Senator Senator Senator | A43 A54 A51 A41 A59 A52 A50 A53 A46 A53 A46 A58 A44 A42 A48 A42 A48 A42 A48 A45 A56 A57 A47 S22 S18 S21 S19 | Charles Barron Diana C. Richardson Erik Martin Dilan Feliz Ortiz Helene Weinstein Jaime R. Williams Jo Anne Simon Josoph R. Lentol Latrice Monique Walker Martiza Davila Mathylde Frontus N. Nick Peny Peter Abbale Jr. Robert C. Carroll Rodneyse Bichotte Simcha Eichenstein Steven Cymbrowitz Tremaine S.Wright Walter T. Mosley William Colton Andrew Gounardes Julia Salzaar Kevin S. Parker Roxanne J. Persaud | 13% 13% 13% 13% 13% 13% 13% 13% 13% 13% | 2 2 1 2 2 2 2 2 2 2 2 2 2 1 1 2 2 2 2 2 | 344 344 236 231 253 185 263 267 353 269 267 353 243 198 347 133 149 248 151 185 239 271 119 409 645 659 750 | 599 599 65 44 61 76 79 47 29 57 72 72 63 56 66 62 72 43 56 66 72 43 56 63 51 66 70 | 6 7 5 8 8 8 5 3 6 4 7 7 6 7 6 7 7 6 7 7 5 7 7 7 7 7 7 | 2.2% 2.2% 1.6% 1.6% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1 | 125 93 86 81 120 130 65 44 120 72 710 110 86 95 83 110 84 65 110 84 65 110 88 101 95 5155 |

Using NYC Open Data and Crashmapper.org (11/16 to 11/18)

Appendix B: Legislative District Summaries

Projected Crash and Time Reductions resulting from Congestion Pricing - by county and legislative office

| county office name district # elected name % Chain Production feature field of the field of | | verage dally 2- way commute (min) 74 76 8 50 25 47 67 38 27 19 54 36 33 76 33 76 32 |
|---|---|--|
| New York County Assembly Member A72 Carmen N. De La Rosa 13% 1 132 40 New York County Assembly Member A73 Dan Quart 18% 2 317 9 New York County Assembly Member A73 Dan Quart 18% 2 317 9 New York County Assembly Member A66 Daniel J. O'Donnell 13% 1 101 38 New York County Assembly Member A74 Harvey Epstein 40% 6 722 28 New York County Assembly Member A70 Inez E. Dickens 13% 1 188 37 New York County Assembly Member A76 Rebecca Seawright 40% 1 298 22 New York County Assembly Member A76 Rebecca Seawright 40% 6 1,004 21 New York County Assembly Member A58 Robert J. Rodriguez 13% 1 235 34 New York County Senato | 4 2.3% 1 9.7% 4 3.0% 3 2.0% 6 9.2% 4 3.1% 3 6.8% 2 7.8% 2 8.5% 4 2.2% 4 8.3% 4 3.1% 3 9.8% | 76 8 50 25 47 67 38 27 19 54 36 33 76 |
| New York County Assembly Member A73 Dan Quart 18% 2 317 9 New York County Assembly Member A69 Daniel J. O'Donneil 13% 1 1011 33 New York County Assembly Member A66 Deboral J. Glick 40% 6 722 28 New York County Assembly Member A74 Harvey Epstein 40% 1 516 53 New York County Assembly Member A7 Inzer E. Dickens 13% 1 188 37 New York County Assembly Member A76 Linda Rosenthal 20% 2 200 28 New York County Assembly Member A76 Rebecca Seawright 40% 1 298 22 New York County Assembly Member A85 Robert J. Rodriguez 13% 1 235 34 New York County Assembly Member A65 Yuh-Line Niou 40% 4 629 41 New York County Senator< | $\begin{array}{cccc} 1 & 9.7\% \\ 4 & 3.0\% \\ 3 & 2.0\% \\ 6 & 9.2\% \\ 4 & 3.1\% \\ 3 & 6.8\% \\ 2 & 7.8\% \\ 2 & 8.5\% \\ 4 & 4.0\% \\ 4 & 2.2\% \\ 4 & 8.3\% \\ 4 & 3.1\% \\ 3 & 9.8\% \end{array}$ | 8 50 25 47 67 38 27 19 54 36 33 76 |
| New York County Assembly Member A69 Daniel J. O'Donnell 13% 1 101 38 New York County Assembly Member A66 Deborah J. Glick 40% 6 722 28 New York County Assembly Member A74 Harvey Epstein 40% 1 516 53 New York County Assembly Member A70 Inez E. Dickens 13% 1 188 37 New York County Assembly Member A70 Inez E. Dickens 13% 1 288 22 New York County Assembly Member A67 Inda Rosenthal 20% 2 200 28 New York County Assembly Member A67 Rebecca Seawright 40% 6 1,004 21 New York County Assembly Member A68 Robert J. Rodriguez 13% 1 205 34 New York County Senator S27 Brad M. Holyman 40% 8 1,660 37 New York County Senat | 4 3.0% 3 2.0% 6 9.2% 4 3.1% 3 6.8% 2 7.8% 2 8.5% 4 4.0% 4 2.2% 4 8.3% 4 3.1% 3 9.8% | 50 25 47 67 38 27 19 54 36 33 76 |
| New York County Assembly Member A66 Deborah J. Glick 40% 6 722 28 New York County Assembly Member A74 Harvey Epstein 40% 1 516 53 New York County Assembly Member A70 Inez E. Dickens 13% 1 188 37 New York County Assembly Member A67 Linda Rosenthal 20% 2 200 28 New York County Assembly Member A76 Rebecca Seawright 40% 1 298 22 New York County Assembly Member A76 Rebecca Seawright 40% 6 1,004 21 New York County Assembly Member A75 Richard N. Gottfried 40% 4 629 41 New York County Assembly Member A65 Yuh-Line Niou 40% 8 1,560 37 New York County Senator S27 Brad M. Holyman 40% 8 1,660 37 New York County Senat | 3 2.0% 6 9.2% 4 3.1% 3 6.8% 2 7.8% 2 8.5% 4 4.0% 4 2.2% 4 8.3% 3 9.8% | 25 47 67 38 27 19 54 36 33 76 |
| New York County Assembly Member A66 Deborah J. Glick 40% 66 722 28 New York County Assembly Member A74 Harvey Epstein 40% 1 516 53 New York County Assembly Member A70 Inez E. Dickens 13% 1 188 37 New York County Assembly Member A70 Inda Rosenthal 20% 2 200 22 New York County Assembly Member A76 Rebecca Seawright 40% 1 298 22 New York County Assembly Member A76 Rebecca Seawright 40% 6 1,004 21 New York County Assembly Member A75 Richard N. Gottfried 40% 6 1,004 21 New York County Assembly Member A66 Robert J. Rodriguez 13% 1 235 34 New York County Senator S27 Brad M. Holyman 40% 8 1,560 37 | 6 9.2% 4 3.1% 3 6.8% 2 7.8% 4 4.0% 4 2.2% 4 8.3% 4 3.1% 3 9.8% | 47 67 38 27 19 54 36 33 76 |
| New York County Assembly Member A74 Harvey Epstein 40% 1 516 53 New York County Assembly Member A70 Inez E. Dickens 13% 1 188 37 New York County Assembly Member A70 Inez E. Dickens 13% 1 188 37 New York County Assembly Member A76 Rebecca Seawright 40% 1 298 22 New York County Assembly Member A76 Rebecca Seawright 40% 6 1,004 21 New York County Assembly Member A65 Robert J. Rodriguez 13% 1 235 34 New York County Assembly Member A65 Yuh-Line Niou 40% 4 629 41 New York County Senator S27 Brad M. Holyman 40% 8 1,560 37 New York County Senator S28 Liz Krueger 26% 3 830 26 New York County Senator | 6 9.2% 4 3.1% 3 6.8% 2 7.8% 4 4.0% 4 2.2% 4 8.3% 4 3.1% 3 9.8% | 67 38 27 19 54 36 33 76 |
| New York County Assembly Member A70 Inez E. Dickens 13% 1 188 37 New York County Assembly Member A67 Linda Rosenthal 20% 2 200 28 New York County Assembly Member A67 Linda Rosenthal 20% 1 298 22 200 28 New York County Assembly Member A67 Richard N. Gottfried 40% 6 1,004 21 New York County Assembly Member A68 Robert J. Rodriguez 13% 1 225 34 New York County Assembly Member A68 Yub-Line Niou 40% 4 629 41 New York County Senator S27 Brad M. Holyman 40% 8 1,560 37 New York County Senator S28 Liz Krueger 26% 3 830 26 New York County Senator S28 Liz Krueger 26% 3 830 26 New York County | 4 3.1% 3 6.8% 2 7.8% 2 8.5% 4 4.0% 4 2.2% 4 8.3% 4 3.1% 3 9.8% | 67 38 27 19 54 36 33 76 |
| New York County Assembly Member A67 Linda Rosenthal 20% 2 200 28 New York County Assembly Member A76 Rebecca Seawright 40% 1 298 22 200 28 New York County Assembly Member A76 Rebecca Seawright 40% 6 1,004 21 40% 1 298 23 40% 20 20 20 20 28 20 20 23 23 23 24 40% 6 1,004 21 40% 40% 6 1,004 21 40% 40% 6 1,004 21 40% 40% 40% 40% 41 40% 40% 41 40% 40% 41 40% 41 40% 40% 40% 41 40% 41 40% 41 40% 41 40% 41 40% 41 40% 41 40% 41 41 41 41 41 41< | 3 6.8% 2 7.8% 2 8.5% 4 4.0% 4 2.2% 4 8.3% 4 3.1% 3 9.8% | 38 27 19 54 36 33 76 |
| New York County Assembly Member A76 Rebecca Seawright 40% 1 298 22 New York County Assembly Member A75 Richard N. Gottfried 40% 6 1,004 21 New York County Assembly Member A65 Robert J. Rodriguez 13% 1 225 34 New York County Assembly Member A65 Yuh-Line Niou 40% 4 629 41 New York County Senator S27 Brad M. Holyman 40% 8 1,560 37 New York County Senator S28 Brian A. Benjamin 13% 2 352 41 New York County Senator S28 Liz Krueger 26% 3 830 26 New York County Senator S28 Liz Krueger 24% 4 644 3 New York County Senator S31 Robert Jackson 24% 4 644 3 County offfce name district # <t< td=""><td>2 7.8% 2 8.5% 4 4.0% 4 2.2% 4 8.3% 4 3.1% 3 9.8%</td><td>27 19 54 36 33 76</td></t<> | 2 7.8% 2 8.5% 4 4.0% 4 2.2% 4 8.3% 4 3.1% 3 9.8% | 27 19 54 36 33 76 |
| New York County Assembly Member A75 Richard N. Gottfried 40% 6 1,004 21 New York County Assembly Member A68 Robert J. Rodriguez 13% 1 235 34 New York County Assembly Member A68 Robert J. Rodriguez 13% 1 235 34 New York County Assembly Member A65 Yuh-Line Niou 40% 4 6629 41 New York County Senator S27 Brad M. Holyman 40% 8 1,560 37 New York County Senator S30 Brian A. Benjamin 13% 2 352 41 New York County Senator S28 Liz Krueger 26% 3 830 26 New York County Senator S31 Robert Jackson 24% 4 644 43 county office name district # elected name % crash Fredection in reduction in to building of the stree private stree private stree prin to building of the stree private stree stree stree stree stre | 2 8.5% 4 4.0% 4 2.2% 4 8.3% 4 3.1% 3 9.8% | 19 54 36 33 76 |
| New York County Assembly Member A68 Robert J. Rodriguez 13% 1 235 34 New York County Assembly Member A65 Yuh-Line Niou 40% 4 629 41 New York County Senator S27 Brad M. Holyman 40% 8 1,560 37 New York County Senator S30 Brian A. Benjamin 13% 2 352 41 New York County Senator S30 Brian A. Benjamin 13% 2 3830 26 New York County Senator S28 Liz Krueger 26% 3 830 26 New York County Senator S31 Robert Jackson 24% 4 644 43 County office name district # elected name % crash Fredection in reduction in the statework save | 4 4.0% 4 2.2% 4 8.3% 4 3.1% 3 9.8% | 54 36 33 76 |
| New York County Assembly Member A65 Yuh-Line Niou 40% 4 629 41 New York County Senator S27 Brad M. Holyman 40% 8 1,560 37 New York County Senator S30 Brian A. Benjamin 13% 2 352 41 New York County Senator S28 Liz Krueger 26% 3 830 26 New York County Senator S21 Robert Jackson 24% 4 644 3 County Grifice name district # elected name % crash reduction in reduction in save per week save reduction in save per week save marks reduction in save per week save | 4 2.2% 4 8.3% 4 3.1% 3 9.8% | 36 33 76 |
| New York County Senator S27 Brad M. Holyman 40% 8 1,560 37 New York County Senator S30 Brian A. Benjamin 13% 2 352 41 New York County Senator S28 Liz Krueger 26% 3 830 26 New York County Senator S31 Robert Jackson 24% 4 44 43 county office name district # elected name % crash reduction in reduction in save per week save | 4 8.3% 4 3.1% 3 9.8% | 33 76 |
| New York County Senator S30 Brian A. Benjamin 13% 2 352 41 New York County Senator S28 Liz Krueger 26% 3 830 26 New York County Senator S31 Robert Jackson 24% 4 644 43 county office name district # elected name % crash reduction in county district # elected name % crash reduction in county district # | 4 3.1% 3 9.8% | 76 |
| New York County Senator S28 Liz Krueger 26% 3 830 26 New York County Senator S31 Robert Jackson 24% 4 644 43 county office name district # elected name % crash reduction in save per week save reduction in save per week save save per week save | 3 9.8% | |
| New York County Senator S31 Robert Jackson 24% 4 644 43 county office name district # elected name % crash tableton in reduction in tableton in save per week, save fairwer's time district # | | 32 |
| county office name district # elected name | 4 3.7% | 01 |
| county office name district # elected name % crash reduction in reduction in save per week save | - 0.170 | 83 |
| | | average daily 2- way commute (min) |
| Queens County Assembly Member A29 Alicia L. Hyndman 13% 1 310 72 | 8 3.1% | 160 |
| Queens County Assembly Member A28 Andrew Hevesi 13% 2 171 39 | 4 4.3% | 74 |
| Queens County Assembly Member A30 Brian Barnwell 13% 1 216 40 | 4 4.2% | 49 |
| | | |
| | | 125 |
| Queens County Assembly Member A27 Daniel Rosenthal 13% 2 269 51 | 5 4.1% | 105 |
| Queens County Assembly Member A24 David I. Weprin 13% 2 274 51 | 5 4.2% | 105 |
| Queens County Assembly Member A26 Edward C. Braunstein 13% 1 217 61 | 6 5.7% | 130 |
| Queens County Assembly Member A31 Michele R. Titus 13% 2 456 57 | 6 2.9% | 120 |
| Queens County Assembly Member A25 Nily Rozic 13% 2 242 25 | 3 4.8% | 105 |
| Queens County Assembly Member A40 Ron Kim 13% 2 179 43 | 4 4.0% | 83 |
| Queens County Assembly Member A23 Stacey Pheffer Amato 13% 1 214 57 | 6 4.2% | 120 |
| Queens County Assembly Member A32 Vivian Cook 13% 1 344 57 | 6 3.0% | 120 |
| Queens County Assembly Member A36 Aravella Simotas 13% 1 189 34 | 4 2.6% | 61 |
| Queens County Assembly Member A37 Catherine Nolan 13% 2 292 20 | 2 3.1% | 24 |
| Queens County Assembly Member A39 Catlina Cruz 13% 1 101 36 | 4 1.9% | 65 |
| Queens County Assembly Member A35 Jeffrion L. Aubry 13% 2 240 39 | 4 2.8% | 74 |
| Queens County Assembly Member A34 Michael G. DenDekker 13% 1 152 34 | 4 3.4% | 60 |
| Queens County Assembly Member A38 Michael Miller 13% 1 199 38 | 4 3.3% | 70 |
| Queens County Senator S10 James Sanders, Jr. 13% 2 834 57 | 6 3.1% | 120 |
| Queens County Senator S13 Jessica Ramos 13% 2 423 39 | 4 2.6% | 72 |
| Queens County Senator S11 John Liu 13% 4 587 59 | 6 5.3% | 125 |
| Queens County Senator S15 Joseph P. Addabbo, Jr. 13% 4 553 55 | 6 4.6% | 115 |
| Queens County Senator S14 Leroy Comrie Jr. 13% 3 845 59 | 6 3.6% | 125 |
| Queens County Senator S12 Michael N. Gianaris 13% 2 586 34 | 4 2.8% | 61 |
| Queens County Senator S16 Toby Ann Stavisky 13% 3 532 43 | 4 3.6% | 83 |
| Queens county Senator S to roby Ann Stavisky 13% 3 332 43 | 4 3.0% | 03 |
| | | average daily 2- way commute (min) |
| Richmond County Assembly Member A61 Charles Fall 13% 1 189 85 | 9 4.0% | 145 |
| | 8 5.3% | 160 |
| Richmond County Assembly Member A63 Michael Cusick 13% 2 237 72 | 9 4.2% | 145 |
| | | |
| | 8 7.1% | 160 |

Using NYC Open Data and Crashmapper.org (11/16 to 11/18)