## FY 2022

## RPIE 2019 Income and Expense Distributions

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Special Thanks to the Property Modeling and Research Group


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## RPIE 2019 <br> Citywide by Property Type <br> Income, Expense, and Year-Year Change Distribution

| Property Type | Count | Variable | 25th Pct\| | 50th Pctl | 75th Pct\| | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| INDUSTRIAL | 2,840 | Income | \$11.16 | \$15.57 | \$21.21 | \$20.34 |
|  |  | Income \% change | -1.11\% | 2.48\% | 8.24\% | 2.36\% |
|  |  | Expense | \$1.55 | \$2.92 | \$5.01 | \$5.45 |
|  |  | Expense \% change | -19.66\% | 0.58\% | 20.36\% | 4.21\% |
| OFFICE | 2,890 | Income | \$23.39 | \$38.19 | \$62.60 | \$61.64 |
|  |  | Income \% change | -3.23\% | 1.72\% | 6.86\% | 0.75\% |
|  |  | Expense | \$4.98 | \$9.97 | \$18.60 | \$17.33 |
|  |  | Expense \% change | -11.91\% | 1.53\% | 16.39\% | 3.09\% |
| RENTAL | 13,865 | Income | \$15.19 | \$20.26 | \$33.95 | \$27.59 |
|  |  | Income \% change | -0.19\% | 2.17\% | 5.17\% | 1.79\% |
|  |  | Expense | \$7.20 | \$9.35 | \$12.78 | \$11.05 |
|  |  | Expense \% change | -8.00\% | 1.22\% | 9.85\% | 0.48\% |
| RETAIL | 8,983 | Income | \$22.33 | \$35.48 | \$58.77 | \$63.12 |
|  |  | Income \% change | -3.16\% | 1.89\% | 7.08\% | 0.61\% |
|  |  | Expense | \$4.12 | \$7.59 | \$14.18 | \$14.68 |
|  |  | Expense \% change | -15.65\% | 0.95\% | 18.30\% | 3.24\% |

Notes:
Income = Gross Income per square foot
Expense = Total Expense per square foot
Income and Expense \% changes based on information filed in RPIE 2018 and RPIE 2019
Rental Apartments with greater than 10 units
Does not include outlier filers and /or partial year filers

## RPIE 2016-2019

## Citywide by Property Type

Median Income Per Square Foot


Does not include outlier filers and /or partial year filers

# RPIE 2019 <br> Citywide by Borough <br> Income, Expense, and Year-Year Change Distribution 

| Borough | Count | Variable | 25th Pctl | 50th Pctl | 75th Pctl | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Manhattan | 8,545 | Income | \$28.16 | \$46.26 | \$66.97 | \$72.53 |
|  |  | Income \% change | -1.35\% | 2.19\% | 6.08\% | 1.26\% |
|  |  | Expense | \$9.51 | \$13.67 | \$19.74 | \$20.87 |
|  |  | Expense \% change | -10.01\% | 0.96\% | 12.16\% | 1.56\% |
| Bronx | 4,865 | Income | \$13.00 | \$16.12 | \$22.19 | \$21.76 |
|  |  | Income \% change | -0.53\% | 2.09\% | 5.49\% | 1.56\% |
|  |  | Expense | \$5.84 | \$7.74 | \$9.92 | \$8.68 |
|  |  | Expense \% change | -7.61\% | 2.26\% | 12.17\% | 2.73\% |
| Brooklyn | 7,851 | Income | \$14.77 | \$19.93 | \$30.55 | \$28.09 |
|  |  | Income \% change | -0.71\% | 2.04\% | 5.88\% | 1.47\% |
|  |  | Expense | \$4.16 | \$6.80 | \$9.67 | \$8.62 |
|  |  | Expense \% change | -12.07\% | 0.87\% | 12.72\% | 1.71\% |
| Queens | 6,394 | Income | \$17.60 | \$23.71 | \$36.68 | \$32.88 |
|  |  | Income \% change | -0.76\% | 2.14\% | 6.06\% | 1.39\% |
|  |  | Expense | \$3.74 | \$6.91 | \$10.55 | \$8.67 |
|  |  | Expense \% change | -12.52\% | 0.99\% | 15.28\% | 2.76\% |
| Staten Island | 923 | Income | \$14.14 | \$21.39 | \$32.61 | \$31.47 |
|  |  | Income \% change | -2.97\% | 0.68\% | 5.39\% | 0.40\% |
|  |  | Expense | \$2.73 | \$5.12 | \$8.94 | \$7.56 |
|  |  | Expense \% change | -19.54\% | 0.00\% | 13.44\% | -1.06\% |

Notes:
Income = Gross Income per square foot
Expense = Total Expense per square foot
Income and Expense \% changes based on information filed in RPIE 2018 and RPIE 2019
Rental Apartments with greater than 10 units
Does not include outlier filers and /or partial year filers

## RPIE 2019

## Industrial Properties by Borough Income, Expenses, and Year-Year Change Distribution

| Major Building Category | Borough | Count | Variable | 25th Pct\| | 50th Pctl | 75th Pctl | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| INDUSTRIAL | Manhattan | 44 | Income | \$14.67 | \$33.15 | \$52.18 | \$148.80 |
|  |  |  | Income \% change | 0.00\% | 3.60\% | 8.33\% | -0.17\% |
|  |  |  | Expense | \$2.27 | \$4.85 | \$11.25 | \$92.19 |
|  |  |  | Expense \% change | -38.87\% | 1.61\% | 20.85\% | 0.26\% |
|  | Bronx | 363 | Income | \$9.62 | \$13.33 | \$17.67 | \$16.80 |
|  |  |  | Income \% change | -1.99\% | 2.37\% | 7.20\% | 1.81\% |
|  |  |  | Expense | \$1.59 | \$2.76 | \$4.78 | \$3.92 |
|  |  |  | Expense \% change | -20.73\% | 0.52\% | 26.11\% | 6.44\% |
|  | Brookln | 1,178 | Income | \$11.40 | \$15.40 | \$20.55 | \$18.08 |
|  |  |  | Income \% change | -0.63\% | 2.44\% | 8.86\% | 3.07\% |
|  |  |  | Expense | \$1.63 | \$3.05 | \$5.15 | \$4.26 |
|  |  |  | Expense \% change | -17.94\% | 0.34\% | 17.22\% | 3.42\% |
|  | Queens | 1,132 | Income | \$12.09 | \$17.02 | \$22.41 | \$19.60 |
|  |  |  | Income \% change | -1.41\% | 2.78\% | 8.08\% | 2.03\% |
|  |  |  | Expense | \$1.51 | \$2.93 | \$5.00 | \$4.09 |
|  |  |  | Expense \% change | -19.42\% | 1.16\% | 24.58\% | 5.54\% |
|  | Staten Island | 123 | Income | \$9.29 | \$11.56 | \$15.71 | \$13.39 |
|  |  |  | Income \% change | -5.45\% | 0.00\% | 8.83\% | 1.04\% |
|  |  |  | Expense | \$1.16 | \$1.89 | \$3.79 | \$2.86 |
|  |  |  | Expense \% change | -31.70\% | 0.00\% | 10.86\% | -5.58\% |

Notes:
Income = Gross Income per square foot
Expense = Total Expense per square foot
Income and Expense \% changes based on information filed in RPIE 2018 and RPIE 2019
Does not include outlier filers and or partial year filers

## RPIE 2016-2019 <br> Industrial Properties by Borough

Median Income Per Square Foot


Median Expense Per Square Foot


|  | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | ---: | ---: | ---: | ---: |
| Manhattan (MN) | 35 | 32 | 46 | 44 |
| Bronx (BX) | 333 | 312 | 334 | 363 |
| Brooklyn (BK) | 1,096 | 1,026 | 1,167 | 1,178 |
| Queens (QN) | 1,036 | 998 | 1,100 | 1,132 |
| Staten Island (SI) | 91 | 98 | 115 | 123 |

Does not include outlier filers and /or partial year filers

# RPIE 2019 <br> Office Properties by Borough <br> Income, Expenses, and Year-Year Change Distribution 

| Major Building Category | Borough | Count | Variable | 25th Pctl | 50th Pctl | 75th Pctl | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OFFICE | Manhattan | 1,177 | Income | \$41.87 | \$61.31 | \$86.47 | \$95.22 |
|  |  |  | Income \% change | -3.28\% | 1.87\% | 6.82\% | 1.00\% |
|  |  |  | Expense | \$10.88 | \$17.97 | \$26.70 | \$27.90 |
|  |  |  | Expense \% change | -6.65\% | 2.53\% | 15.64\% | 5.27\% |
|  | Bronx | 196 | Income | \$17.69 | \$27.74 | \$37.89 | \$31.80 |
|  |  |  | Income \% change | -1.51\% | 2.43\% | 7.70\% | 2.45\% |
|  |  |  | Expense | \$3.44 | \$6.18 | \$9.62 | \$8.61 |
|  |  |  | Expense \% change | -16.79\% | 1.03\% | 17.91\% | 1.64\% |
|  | Brooklyn | 646 | Income | \$18.85 | \$27.53 | \$39.32 | \$36.22 |
|  |  |  | Income \% change | -3.33\% | 1.78\% | 6.48\% | 0.72\% |
|  |  |  | Expense | \$3.45 | \$6.06 | \$10.73 | \$9.70 |
|  |  |  | Expense \% change | -14.13\% | 1.43\% | 18.60\% | 3.52\% |
|  | Queens | 689 | Income | \$20.93 | \$31.82 | \$47.77 | \$45.37 |
|  |  |  | Income \% change | -2.77\% | 1.49\% | 7.04\% | 0.15\% |
|  |  |  | Expense | \$3.93 | \$7.52 | \$12.76 | \$11.25 |
|  |  |  | Expense \% change | -16.21\% | 0.00\% | 15.47\% | 0.24\% |
|  | Staten Island | 182 | Income | \$17.75 | \$25.56 | \$34.51 | \$28.49 |
|  |  |  | Income \% change | -5.25\% | 0.00\% | 4.65\% | -0.33\% |
|  |  |  | Expense | \$3.41 | \$6.52 | \$11.49 | \$8.40 |
|  |  |  | Expense \% change | -16.81\% | 0.00\% | 18.51\% | -0.15\% |

Notes:
Income = Gross Income per square foot
Expense = Total Expense per square foot
Income and Expense \% changes based on information filed in RPIE 2018 and RPIE 2019
Does not include outlier filers and or partial year filers

## RPIE 2016-2019 Office Properties by Borough

Median Income Per Square Foot


Median Expense Per Square Foot


Number of Filings

|  | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | ---: | ---: | ---: | ---: |
| Manhattan (MN) | 973 | 971 | 1,173 | $\mathbf{1 , 1 7 7}$ |
| Bronx (BX) | 186 | 172 | 179 | 196 |
| Brooklyn (BK) | 587 | 577 | 633 | 646 |
| Queens (QN) | 572 | 520 | 613 | 689 |
| Staten Island (SI) | 184 | 184 | 187 | 182 |

Does not include outlier filers and /or partial year filers

## RPIE 2019 <br> Rental Apartments By Borough <br> Income, Expense, and Year-Year Change Distribution

| Major Building Category | Borough | Count | Variable | 25th Pctl | 50th Pctl | 75th Pctl | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RENTAL APARTMENTS | Manhattan | 5,167 | Income | \$23.05 | \$38.70 | \$52.27 | \$41.04 |
|  |  |  | Income \% change | -0.66\% | 2.16\% | 5.58\% | 1.72\% |
|  |  |  | Expense | \$9.55 | \$12.74 | \$17.02 | \$14.36 |
|  |  |  | Expense \% change | -9.86\% | 0.31\% | 10.04\% | -0.38\% |
|  | Bronx | 3,116 | Income | \$12.62 | \$14.89 | \$17.66 | \$16.34 |
|  |  |  | Income \% change | -0.09\% | 2.11\% | 4.87\% | 1.63\% |
|  |  |  | Expense | \$6.74 | \$8.13 | \$9.86 | \$9.02 |
|  |  |  | Expense \% change | -5.24\% | 2.63\% | 10.35\% | 2.01\% |
|  | Brooklyn | 3,578 | Income | \$14.20 | \$17.58 | \$23.39 | \$20.84 |
|  |  |  | Income \% change | -0.10\% | 2.16\% | 5.09\% | 1.79\% |
|  |  |  | Expense | \$6.27 | \$7.98 | \$10.22 | \$8.94 |
|  |  |  | Expense \% change | -7.95\% | 1.18\% | 9.12\% | 0.14\% |
|  | Queens | 1,894 | Income | \$17.58 | \$21.07 | \$25.05 | \$22.53 |
|  |  |  | Income \% change | 0.43\% | 2.32\% | 4.98\% | 2.35\% |
|  |  |  | Expense | \$6.74 | \$8.51 | \$10.93 | \$9.44 |
|  |  |  | Expense \% change | -7.51\% | 1.49\% | 9.85\% | 1.11\% |
|  | Staten Island | 110 | Income | \$14.34 | \$16.30 | \$20.35 | \$20.92 |
|  |  |  | Income \% change | -1.14\% | 1.03\% | 3.93\% | 0.53\% |
|  |  |  | Expense | \$5.95 | \$7.85 | \$9.76 | \$9.32 |
|  |  |  | Expense \% change | -9.16\% | 1.03\% | 9.74\% | -2.20\% |

Notes:
Income = Gross Income per square foot
Expense = Total Expense per square foot
Income and Expense \% changes based on information filed in RPIE 2018 and RPIE 2019
Does not include outlier filers and or partial year filers

## RPIE 2016-2019 <br> Rental Properties by Borough

Median Income Per Square Foot


Median Expense Per Square Foot


Number of Filings

|  | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | ---: | ---: | ---: | ---: |
| Manhattan (MN) | 5,362 | 5,423 | 5,342 | 5,167 |
| Bronx (BX) | 2,675 | 2,747 | 2,652 | 3,116 |
| Brooklyn (BK) | 3,288 | 3,210 | 3,222 | 3,578 |
| Queens (QN) | 1,773 | 1,732 | 1,643 | 1,894 |
| Staten Island (SI) | 104 | 113 | 107 | 110 |

Does not include outlier filers and /or partial year filers

## RPIE 2019 <br> Retail Properties By Borough Income, Expenses, and Year-Year Change Distribution

| Major Building Category | Borough | Count | Variable | 25th Pctl | 50th Pctl | 75th Pct\| | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RETAIL | Manhattan | 2,157 | Income | \$44.75 | \$68.19 | \$114.98 | \$134.00 |
|  |  |  | Income \% change | -3.67\% | 2.47\% | 7.42\% | 0.33\% |
|  |  |  | Expense | \$8.82 | \$15.86 | \$25.19 | \$31.16 |
|  |  |  | Expense \% change | -12.37\% | 2.28\% | 17.70\% | 4.21\% |
|  | Bronx | 1,190 | Income | \$19.72 | \$29.19 | \$42.57 | \$35.80 |
|  |  |  | Income \% change | -3.06\% | 1.83\% | 7.76\% | 1.16\% |
|  |  |  | Expense | \$4.05 | \$7.07 | \$11.38 | \$9.26 |
|  |  |  | Expense \% change | -14.88\% | 1.28\% | 19.47\% | 3.64\% |
|  | Brooklyn | 2,449 | Income | \$19.72 | \$28.54 | \$43.34 | \$41.37 |
|  |  |  | Income \% change | -2.85\% | 1.77\% | 6.81\% | 0.44\% |
|  |  |  | Expense | \$3.40 | \$5.94 | \$9.72 | \$9.95 |
|  |  |  | Expense \% change | -17.99\% | 0.37\% | 18.81\% | 2.69\% |
|  | Queens | 2,679 | Income | \$21.91 | \$33.33 | \$50.83 | \$42.60 |
|  |  |  | Income \% change | -3.13\% | 1.66\% | 6.64\% | 0.76\% |
|  |  |  | Expense | \$3.70 | \$6.73 | \$11.37 | \$9.39 |
|  |  |  | Expense \% change | -15.90\% | 0.73\% | 18.75\% | 3.41\% |
|  | Staten Island | 508 | Income | \$16.59 | \$24.95 | \$36.88 | \$39.21 |
|  |  |  | Income \% change | -2.42\% | 1.00\% | 6.30\% | 0.49\% |
|  |  |  | Expense | \$2.95 | \$5.05 | \$8.60 | \$8.02 |
|  |  |  | Expense \% change | -20.02\% | 0.00\% | 14.53\% | -0.05\% |

Notes:
Income = Gross Income per square foot
Expense = Total Expense per square foot
Income and Expense \% changes based on information filed in RPIE 2018 and RPIE 2019
Does not include outlier filers and or partial year filers

## RPIE 2016-2019 <br> Retail Properties by Borough

Median Income Per Square Foot


Median Expense Per Square Foot


|  | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | ---: | ---: | ---: | ---: |
| Manhattan (MN) | 2,010 | 2,000 | 2,343 | 2,157 |
| Bronx (BX) | 1,136 | 1,144 | 1,252 | 1,190 |
| Brooklyn (BK) | 2,368 | 2,318 | 2,466 | 2,449 |
| Queens (QN) | 2,592 | 2,539 | 2,769 | 2,679 |
| Staten Island (SI) | 494 | 464 | 505 | 508 |

Does not include outlier filers and /or partial year filers

## Guideline Income, Expense, and Cap Rate Distributions

| Major Building Categories | Variable | 25 th Pctl | 50 th Pctl | 75 th Pctl | Mean |
| :--- | :--- | :---: | :---: | :---: | :---: |
| INDUSTRIAL | Income | $\$ 12.71$ | $\$ 15.21$ | $\$ 18.30$ | $\$ 16.44$ |
|  | Expense | $\$ 2.60$ | $\$ 3.51$ | $\$ 4.61$ | $\$ 3.81$ |
|  | Cap Rate | $14.48 \%$ | $14.50 \%$ | $14.53 \%$ | $14.37 \%$ |
| OFFICE | Income | $\$ 24.43$ | $\$ 30.27$ | $\$ 42.44$ | $\$ 37.03$ |
|  | Expense | $\$ 5.80$ | $\$ 8.36$ | $\$ 12.60$ | $\$ 10.46$ |
|  | Cap Rate | $14.98 \%$ | $15.17 \%$ | $15.18 \%$ | $14.82 \%$ |
| RENTAL | Income | $\$ 15.44$ | $\$ 20.61$ | $\$ 34.37$ | $\$ 27.05$ |
|  | Expense | $\$ 7.49$ | $\$ 9.48$ | $\$ 12.70$ | $\$ 10.65$ |
|  | Cap Rate | $12.50 \%$ | $12.93 \%$ | $13.68 \%$ | $13.21 \%$ |
|  | Income | $\$ 24.12$ | $\$ 31.41$ | $\$ 44.59$ | $\$ 39.98$ |
|  | RETAIL | Expense | $\$ 4.83$ | $\$ 7.08$ | $\$ 10.41$ |
|  | Cap Rate | $15.08 \%$ | $15.47 \%$ | $16.29 \%$ | $15.34 \%$ |
|  |  |  |  |  |  |

Notes:
Income = Gross Income per square foot
Expense = Total Expense per square foot

## FY22 Capitalization Rate Methodology Tax Class 2

- Capitalization Rate based on Ellwood formula


Fallout Capitalization Rate $=$ return on capital (dividend yield) - return of capital (capital gain/loss)


Capitalization Rate based on earnings

- the higher the growth rate, the lower the fallout Capitalization Rate, the more valuable the property


## FY22 Capitalization Rate Methodology <br> Tax Class 2

- $R_{o}$ and $\Delta_{n}{ }^{(a n)}$ are not estimated for each property but are guideline curves that reflect median relationships with income.
- $R_{o}$ is estimated by a median regression of market Capitalization Rate on income per square foot.
- $\Delta_{n}{ }^{(a n)}$ is estimated by a median regression of annual sales growth of Class 2 rentals that were purchased between 1985-2020 and sold from 2012-2020.


## FY22 Capitalization Rate Methodology Tax Class 2

- Guideline curves are applied on rental filer population and centered to reflect market rates

> FY22 Market Cap Rate and Annual Growth Rate

| Variable | 25th Pctl | 50th Pctl | 75th PctI | Mean |
| :--- | ---: | ---: | ---: | ---: |
| Ro | $2.15 \%$ | $\mathbf{3 . 7 4} \%$ | $\mathbf{5 . 1 1} \%$ | $\mathbf{3 . 8 0} \%$ |
| $\Delta$ | $3.06 \%$ | $3.66 \%$ | $\mathbf{4 . 7 1} \%$ | $\mathbf{3 . 9 0} \%$ |

FY22 versus FY21 Capitalization Rate

| Variable | 25th PctI | 50th PctI | 75th PctI | Mean |
| :--- | ---: | ---: | ---: | ---: |
| Cap Rate FY22 | $6.97 \%$ | $7.41 \%$ | $\mathbf{8 . 1 7} \%$ | $7.70 \%$ |
| Cap Rate FY21 | $6.85 \%$ | $7.17 \%$ | $7.80 \%$ | $7.43 \%$ |
| Cap Rate FY22-FY21 | $\mathbf{0 . 1 2} \%$ | $0.24 \%$ | $0.37 \%$ | $0.27 \%$ |

## FY22 Capitalization Rate Formulas and Example Tax Class 2

- Capitalization Rate used reflects earnings-based return

$$
\begin{gathered}
Y_{o}=R_{o}+\Delta_{n}\left(a_{n}\right) \\
R_{o}=\exp \left(-1.08833^{*} \ln (\text { income psf })\right) \\
\Delta_{n}\left(a_{n}\right)=-0.025917+0.020696^{*} \ln (\text { income psf })
\end{gathered}
$$

Example: income psf = \$22.64*

$$
R_{o}=\exp (-1.08833 * \ln (22.64))^{*} 100=3.35 \%
$$

$\Delta_{n}{ }^{\left(a_{n}\right)}=(-0.025917+0.020696 * \ln (22.64))^{*} 100=3.86 \%$

$$
Y o=3.35 \%+3.86 \%=7.22 \%
$$

## FY22 Capitalization Rate Methodology Tax Class 4

| Maior Building Coitegory | Flat Cop Rate <br> Adiustment from FY21 <br> $(B P S)$ |
| :--- | :---: |
| OFFICE - MANHATTAN SOUTH OF 110TH STREET <br> CLASS A/B/T AND DOWNTOWN BROOKLYN CLASS A | 20 |
| OFFICE - MANHATTAN SOUTH OF 110TH STREET Non <br> CLASS A/B/T | 20 |
| OFFICE - MANHATTAN NORTH OF 110TH STREET AND <br> OUTER BOROUGHS | 20 |
| RETAIL - MANHATTAN SOUTH OF 125TH STREET AND <br> DOWNTOWN BROOKLYN | 30 |
| RETAIL - MANHATTAN NORTH OF 125TH STREET AND <br> OUTER BOROUGHS | 30 |
| INDUSTRIAL | 20 |
| GARAGE |  |

- Capitalization Rate are given a flat rate adjustment from FY21

