Hurricane Sandy Surge Extent

In NYC Surge Area

74,000 Residential Buildings
312,000 Residential Units

Legend
- NYC Boroughs
- NY/NJ Counties
- Bodies of Water
- NYC Surge Area
- NY/NJ Surge Area

Sources:
- NYC Department of City Planning
- NYS Office of Cyber Security
- New Jersey Office of Information Technology, Office of Geographic Information Systems
- FEMA Modeling Task Force
Hurricane Sandy Surge Extent & Evacuation Zone A

Legend
- NYC Boroughs
- NY/NJ Counties
- Bodies of Water
- NYC Surge Area
- NYC Hurricane Evacuation Zones
  - A

In NYC Evacuation Zone A
- 48,000 Residential Buildings
- 183,000 Residential Units

Sources:
- NYC Department of City Planning
- NYS Office of Cyber Security
- New Jersey Office of Information Technology, Office of Geographic Information Systems
- NYC Office of Emergency Management
- FEMA Modeling Task Force
Evacuation Zones A, B & C

In NYC Evacuation Zones

270,000 Residential Buildings
1,025,000 Residential Units
FEMA Registrations

Legend
- NYC Surge Area

Share of Units Registered with FEMA

1% - 100%

Sources:
NYC Department of City Planning
NYS Office of Cyber Security
New Jersey Office of Information Technology, Office of Geographic Information Systems
NYC Office of Emergency Management
FEMA Registrations: Rockaway Island and Brooklyn

74,000 Residential Buildings
312,000 Residential Units

Share of Units Registered with FEMA

1% 100%

Legend
NYC Surge Area

Source:
NYC Department of City Planning
NYS Office of Cyber Security
New Jersey Office of Information Technology, Office of Geographic Information Systems
NYC Office of Emergency Management
FEMA Registrations: Staten Island

- Residential Buildings: 74,000
- Residential Units: 312,000
- Share of Units Registered with FEMA: 1% to 100%

Legend:
- NYC Surge Area

Sources:
- NYC Department of City Planning
- NYS Office of Cyber Security
- New Jersey Office of Information Technology, Office of Geographic Information Systems
- NYC Office of Emergency Management
Sandy Surge Extent and NYCHA Properties

In NYC Evacuation Zones

74,000 Residential Buildings
312,000 Residential Units

NYCHA Properties in Surge Area

402 Buildings
35,476 Units

Legend
- NYCHA Properties
- NYC Boroughs
- Bodies of Water
- NYC Surge Area

Sources:
NYC Department of City Planning
NYS Office of Cyber Security
New York City Housing Authority
FEMA Modeling Task Force
Sandy Surge Extent and Other Subsidized Properties

Subsidized Properties in Surge Area

80 Buildings
20,000 Units
## Distribution of Residential Building Types in Surge Area

<table>
<thead>
<tr>
<th>Property Type</th>
<th>Buildings</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Family</td>
<td>32,137</td>
<td>32,137</td>
</tr>
<tr>
<td>2-4 Family</td>
<td>26,746</td>
<td>58,728</td>
</tr>
<tr>
<td>Condo</td>
<td>615</td>
<td>24,346</td>
</tr>
<tr>
<td>Co-op</td>
<td>345</td>
<td>80,807</td>
</tr>
<tr>
<td>NYCHA</td>
<td>402</td>
<td>35,476</td>
</tr>
<tr>
<td>Other Rental Subsidies</td>
<td>79</td>
<td>20,119</td>
</tr>
<tr>
<td>Rent Stabilized</td>
<td>839</td>
<td>42,681</td>
</tr>
<tr>
<td>Market Rate Multifamily</td>
<td>806</td>
<td>27,962</td>
</tr>
<tr>
<td>Other</td>
<td>16,361</td>
<td>5,301</td>
</tr>
</tbody>
</table>
Decade of Construction, Buildings in Surge Area

<table>
<thead>
<tr>
<th>Decade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before 1900</td>
<td>1%</td>
</tr>
<tr>
<td>1900s</td>
<td>2%</td>
</tr>
<tr>
<td>1910s</td>
<td>3%</td>
</tr>
<tr>
<td>1920s</td>
<td>15%</td>
</tr>
<tr>
<td>1930s</td>
<td>15%</td>
</tr>
<tr>
<td>1940s</td>
<td>6%</td>
</tr>
<tr>
<td>1950s</td>
<td>6%</td>
</tr>
<tr>
<td>1960s</td>
<td>21%</td>
</tr>
<tr>
<td>1970s</td>
<td>6%</td>
</tr>
<tr>
<td>1980s</td>
<td>5%</td>
</tr>
<tr>
<td>1990s</td>
<td>4%</td>
</tr>
<tr>
<td>2000s</td>
<td>9%</td>
</tr>
</tbody>
</table>
## Demographics of Households Living in the Surge Area

<table>
<thead>
<tr>
<th></th>
<th>Surge Area</th>
<th>NYC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Households with Children</td>
<td>28.8%</td>
<td>30.7%</td>
</tr>
<tr>
<td>Households with Seniors</td>
<td>27.3%</td>
<td>24.0%</td>
</tr>
<tr>
<td>Seniors Living Along</td>
<td>12.1%</td>
<td>9.8%</td>
</tr>
</tbody>
</table>
# Ability to Recover Losses

<table>
<thead>
<tr>
<th>Surge Area</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Median Income (Owners)</td>
<td>$83,438</td>
</tr>
<tr>
<td>Median Income (Renters)</td>
<td>$36,481</td>
</tr>
<tr>
<td>Poverty Rate</td>
<td>17.9%</td>
</tr>
</tbody>
</table>
Thank you!

Max Weselcouch
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