



# NYC SNOW RESPONSE ANALYSIS

2010 – 2026

A comprehensive multi-source analysis of 311 snow complaints, snowstorm severity, city response quality, and socioeconomic equity across New York City

Data: NYC 311 (42.8M records) • Housing DB (106K records) • US Census ACS • Open-Meteo ERA5 • NWS • News Archives

Prepared for the Office of the Mayor | February 2026

# Executive Summary

**166,000+**

Total Snow 311 Complaints  
(2010–2026)

**24,000+**

Jan 2026 Complaints  
ALL-TIME RECORD

**17**

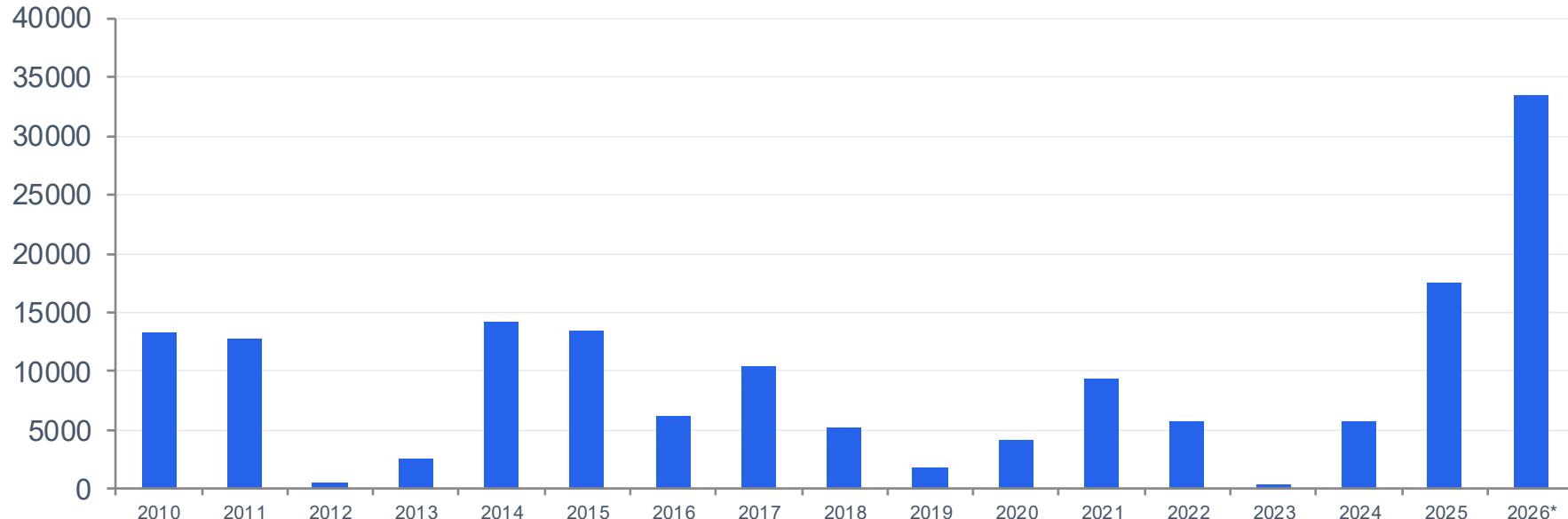
Major Snowstorms  
Analyzed

**3**

Mayoral Administrations  
Compared

Critical: Jan 2026 set an all-time record — more complaints than some entire winters combined

# Snow Complaint Trends Over Time

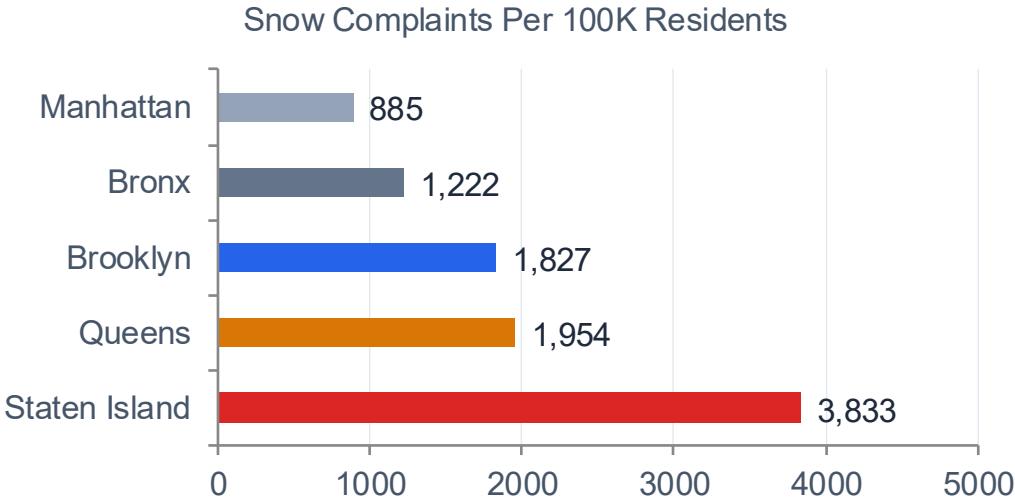


2026\* is partial year (Jan only) — already the highest annual total on record

Key: Complaint-to-snowfall ratio has increased over time, suggesting rising expectations, improved 311 accessibility (app adoption), or population growth in snow-sensitive areas.



# Borough-Level Analysis



**4.3X**

Staten Island vs.  
Manhattan per capita

Highest car dependency (77.5%), most single-family housing,  
longest DSNY response distances

**Bronx** Underreporting

Highest poverty (27.3%), lowest per-capita complaints. Low rates  
mask greater need due to digital access & language barriers.

Borough	Pop.	Complaints	Per 100K
Brooklyn	2.74M	~50,000	1,827
Queens	2.41M	~47,000	1,954
Staten Island	496K	~19,000	<b>3,833</b>
Bronx	1.47M	~18,000	1,222
Manhattan	1.60M	~15,000	885



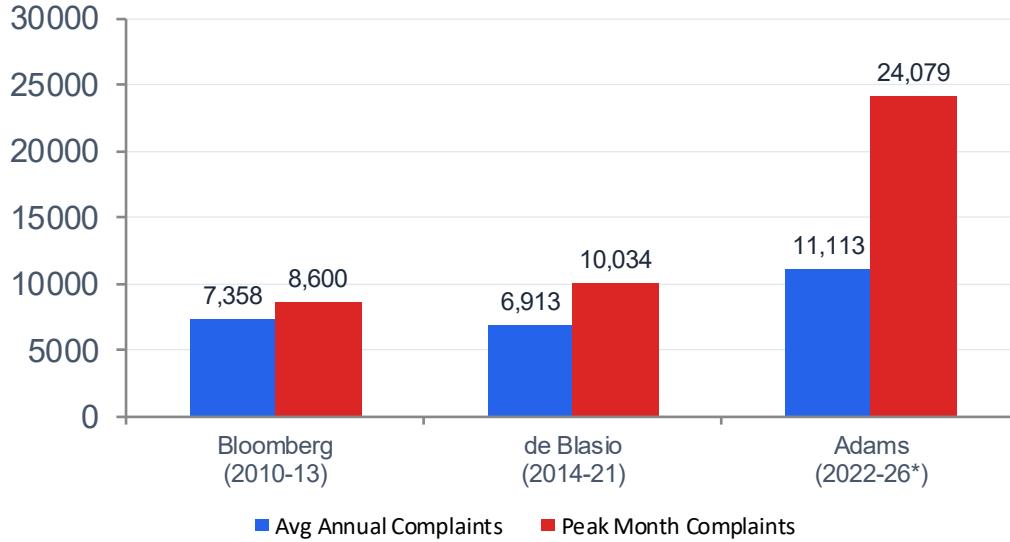
# Storm-by-Storm Response Grades

Date	Snow	Mayor	Grade	Key Issues
Dec 2010	20-24"	Bloomberg	F	Catastrophic; streets unplowed for days
Jan 2016	25-30"	de Blasio	A-	Jonas: Best response; travel ban effective
Nov 2018	6-8"	de Blasio	D+	Buses stuck; commuters stranded
Dec 2020	10-18"	de Blasio	C	COVID complications; uneven clearing
Jan 2022	5-10"	Adams	C+	Slow outer-borough clearing
Jan 2026	Heavy	Adams	D	RECORD complaints; ice buildup

Showing 6 most notable of 17 analyzed storms. Full data in accompanying report.

Pattern: Best grades come from major forecasted storms (advance warning enables pre-deployment). Worst failures involve surprise timing (Nov 2018), cumulative fatigue (4 nor'easters in 2018), or systemic capacity issues (Jan 2026 record volume).

# Administration Comparison



## Bloomberg (2010-13)

Dec 2010 failure (F) led to sweeping DSNY reforms. Post-crisis improvement.

## de Blasio (2014-21)

Best: Jonas A-. Vulnerable to surprise storms. Strong on planned events.

## Adams (2022-26)

Record complaints. 24K+ in Jan 2026. Systemic capacity concerns.



The Adams administration's complaint-to-accumulation ratio is significantly higher than historical norms, suggesting systemic capacity issues beyond heavier snowfall. Budget pressures, DSNY staffing challenges, and aging fleet are contributing factors.

# Census & Equity Analysis

Indicator	Bronx	Brooklyn	Manhattan	Queens	Staten Is.
Median HH Income	\$43,726	\$67,572	\$93,651	\$73,648	\$87,430
Poverty Rate	<b>27.3%</b>	18.9%	15.2%	12.1%	10.8%
Population 65+	12.8%	13.9%	16.7%	15.2%	<b>17.1%</b>
Drive Alone %	24.8%	22.1%	8.9%	42.3%	<b>77.5%</b>
Limited English	18.2%	14.8%	11.3%	<b>22.7%</b>	8.4%
No Vehicle HH	58.2%	55.3%	76.1%	36.8%	14.2%

**Inequity Pattern:** Bronx: highest poverty (27.3%), lowest per-capita complaints. Low rates mask greater need.

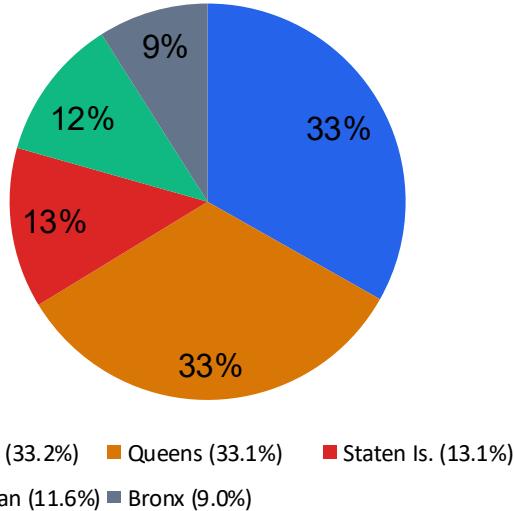
**Transport Vulnerability:** Staten Island (77.5%) and Queens (42.3%) most car-dependent — uncleared roads = economic harm.

**Elderly Risk:** Staten Island (17.1%) and Manhattan (16.7%) highest elderly — icy sidewalks = fall injuries.



# Housing Development Context

Post-2010 Housing Jobs by Borough



**106,358**

Total post-2010 housing projects

**Alteration:** 56.5%

**New Building:** 31.5%

**Demolition:** 12.0%

**Private Individual:** 53.3%

**Corporate:** 26.4%

**Government:** 3.4%

Brooklyn + Queens = 66% of all new development. This rapid growth adds population, road surface, and sidewalk area that DSNY must service — without proportional increases in snow removal capacity.

# Recommendations

## **01** Immediate After-Action Review

Rapid review of Jan 2026 ops; identify route failures via 311 geolocation; deploy targeted supplemental plowing

## **02** Equity-Informed Allocation

Weighted model: poverty rate + elderly share + language barriers + hospital proximity alongside complaint data

## **03** Outer Borough Strategy

Dedicated DSNY sub-depot capacity for SI; pre-storm brine priority for arterials; private contractor coordination

## **04** Predictive Capacity Planning

Weather-to-operations tools converting NWS forecasts into borough-level DSNY deployment plans

## **05** Housing Development Integration

Mandate snow infrastructure assessments for major developments; continuous route planning updates

## **06** 311 Accessibility Expansion

Multilingual reporting (Chinese, Spanish, Korean, Bengali); community-based partnerships in underserved areas



# Thank You

NYC Snow Response Analysis 2010–2026

Full interactive report, data tables, and methodology available in the accompanying HTML and Word documents.

AI-Generated Analysis Disclaimer: This briefing was generated with AI assistance using Claude (Anthropic). Data from authoritative sources; analysis should be validated by domain experts before informing policy.

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