

New York City Mean Annual Changes

a. Temperature

	Baseline (1971 - 2000) 54.6 °F	Low Estimate (10 th Percentile)	Middle Range (25 th to 75 th Percentile)	High Estimate (90 th Percentile)
	2020s	+ 1.6 °F	+ 2.1 to 2.9 °F	+ 3.3 °F
	2050s	+ 3.1 °F	+ 4.1 to 5.7 °F	+ 6.9 °F
Ī	2080s	+ 3.8 °F	+ 5.1 to 8.8 °F	+ 10.2 °F

b. Precipitation

Baseline (1971 -	Low Estimate (10 th	Middle Range (25 th	High Estimate (90 th
2000) 49.7 inches	Percentile)	to 75 th Percentile)	Percentile)
2020s	- 1 percent	+ 2 to + 11 percent	+ 15 percent
2050s	+ 1 percent	+ 5 to + 14 percent	+ 17 percent
2080s	+ 3 percent	+ 7 to + 18 percent	+ 23 percent

Based on 33 GCMs and two Representative Concentration Pathways. Baseline data are for the 1971 to 2000 base period and are from the NOAA National Climatic Data Center (NCDC) Shown are the low-estimate (10th percentile), middle range (25th percentile to 75th percentile), and high-estimate (90th percentile).

c. Sea Level Rise

Baseline (2000- 2004) 0 inches	Low-estimate (10 th percentile)	Middle Range (25 th to 75 th percentile)	High-estimate (90 th percentile)
2020s	2 in	4 to 8 in	10 in
2050s	8 in	11 to 21 in	30 in
2080s	13 in	18 to 39 in	58 in

Projections are based on a 6-component approach that incorporates both local and global factors. The model-based components are from 24 GCMs and two Representative Concentration Pathways. Shown are the low-estimate (10th percentile), middle range (25th percentile to 75th percentile), and high-estimate (90th percentile). Projections are relative to the 2000-2004 base period.

New York City Extreme Events

a. 2020s

	Low Estimate (10 th Percentile)	Middle Range (25 th to 75 th Percentile)	High Estimate (90 th Percentile)
Number of days per year with maximum temperature at or above over 90°F (18 days)	24	27 to 32	34
Number of days per year with minimum temperature at or below 32°F (71 days)	50	52 to 58	61
Number of days per year with rainfall at or above 1 inch (13 days)	13	14 to 16	17
Number of days per year with rainfall at or above 2 inches (3 days)	3	4 to 5	5
Numbers of heat waves per year (2 heat waves)	3	3 to 4	4
Average heat wave duration (in days) (4 days)	5	5 to 5	5

Projections for temperature and precipitation are based on 33GCMs and 2 RCPs. Baseline data (shown in parenthesis) are for the 1971 to 2000 base period and are from the NOAA National Climatic Data Center (NCDC). Shown are the low-estimate (10th percentile), middle range (25th to 7^{t5h} percentile), and high-estimate (90th percentile) 30-year mean values from model-based outcomes. Decimal places are shown for values less than 1, although this does not indicate higher precision/certainty. Heat waves are defined as three more consecutive days with maximum temperatures at or above 90 °F.

b. 2050s

	Low Estimate (10 th Percentile)	Middle Range (25 th to 75 th Percentile)	High Estimate (90 th Percentile)
Number of days per year with maximum temperature at or above over 90°F (18 days)	31	39 to 53	62
Number of days per year with minimum temperature at or below 32°F (71 days)	37	41 to 49	55
Number of days per year with rainfall at or above 1 inch (13 days)	14	15 to 17	18
Number of days per year with rainfall at or above 2 inches (3 days)	4	4 to 5	5
Numbers of heat waves per year (2 heat waves)	4	5 to 7	8
Average heat wave duration (in days) (4 days)	5	5 to 6	6

Projections for temperature and precipitation are based on 33GCMs and 2 RCPs. Baseline data (shown in parenthesis) are for the 1971 to 2000 base period and are from the NOAA National Climatic Data Center (NCDC). Shown are the low-estimate (10th percentile), middle range (25th to 7^{t5h} percentile), and high-estimate (90th percentile) 30-year mean values from model-based outcomes. Decimal places are shown for values less than 1, although this does not indicate higher precision/certainty. Heat waves are defined as three more consecutive days with maximum temperatures at or above 90 °F.

c. 2080s

	Low Estimate (10 th Percentile)	Middle Range (25 th to 75 th Percentile)	High Estimate (90 th Percentile)
Number of days per year with maximum temperature at or above over 90°F (18 days)	40	45 to 77	93
Number of days per year with minimum temperature at or below 32°F (71 days)	25	30 to 44	51
Number of days per year with rainfall at or above 1 inch (13 days)	14	15 to 18	20
Number of days per year with rainfall at or above 2 inches (3 days)	4	4 to 5	6
Numbers of heat waves per year (2 heat waves)	5	6 to 9	10
Average heat wave duration (in days) (4 days)	5	5 to 7	8

Projections for temperature and precipitation are based on 33GCMs and 2 RCPs. Baseline data (shown in parenthesis) are for the 1971 to 2000 base period and are from the NOAA National Climatic Data Center (NCDC). Shown are the low-estimate (10th percentile), middle range (25th to 7^{t5h} percentile), and high-estimate (90th percentile) 30-year mean values from model-based outcomes. Decimal places are shown for values less than 1, although this does not indicate higher precision/certainty. Heat waves are defined as three more consecutive days with maximum temperatures at or above 90 °F.