

Temperature and precipitation extremes in Denver metro area

Actual values for 1970–1999 and projections with climate change

	1970-99 Actual	Projections with Different Emission Levels							
		2040–2059				2080–2099			
		High	Med. #1	Med. #2	Very Low	High	Med. #1	Med. #2	Very Low
Daily high temps									
Days/yr greater than/ equal to (>=) 95°	5	35 24 / 48	23 18 / 30	26 18 / 35	20 12 / 27	77 62 / 98	46 33 / 66	31 23 / 54	19 12 / 30
Days per year >= 100°	0	7 3 / 13	3 2 / 7	4 2 / 8	3 1 / 5	34 22 / 65	12 5 / 25	5 3 / 13	2 1 / 4
Temperature of year's hottest day	98°	104° 102 / 106°	102° 102° / 103°	102° 102 / 104°	101° 100 / 103°	109° 108 / 113°	105° 103 / 108°	104° 102 / 106°	101° 100 / 103°
Avg temp of year's 5 hottest days	96°	102° 101 / 104°	101° 100 / 102°	101° 100 / 103°	100° 99 / 101°	107° 106 / 112°	103° 102 / 106°	102° 101 / 105°	99° 98 / 102°
Avg temp of year's 30 hottest days	93°	99° 98 / 101°	98° 97 / 99°	98° 97 / 99°	97° 95 / 98°	104° 103 / 108°	101° 99 / 103°	99° 98 / 102°	97° 95 / 98°
Average daily high in Jun-Jul-Aug	85°	91° 90 / 93°	90° 88 / 91°	90° 88 / 92°	89° 87 / 90°	97° 95 / 101°	93° 91 / 95°	91° 89 / 94°	88° 87 / 91°
Precipitation									
Precipitation amount in year	16.6 in.	3% -7 / 13%	-2% -6 / 13%	0% -7 / 13%	4% -4 / 21%	6% -10 / 19%	9% -4 / 24%	4% -5 / 17%	5% -4 / 14%
Days with less than 0.25 in. precipitation	116	2% -11 / 6%	0% -9 / 4%	0% -11 / 5%	-3% -9 / -7%	-3% -15 / 6%	1% -11 / 6%	-1% -9 / 6%	3% -9 / 7%
Days with 0.25 in. to 0.5 in. precipitation	11	9% -12 / 22%	7% -12 / 18%	4% -7 / 21%	2% -5 / 28%	6% -16 / 26%	9% -5 / 27%	5% -7 / 30%	9% -5 / 21%
Days with 0.5 in. or more precipitation	5	15% -12 / 39%	6% -16 / 43%	5% -23 / 40%	25% -9 / 51%	31% -11 / 55%	19% -2 / 65%	16% -10 / 63%	17% -7 / 39%

Historic averages for 1970-1999 and projections of future temperatures and precipitation in the Denver metropolitan area in two future time periods, showing for each time period the projections based on four different scenarios assuming varying future global levels of heat-trapping emissions. The high emissions scenario is officially known as Representative Concentration Pathway (RCP) 8.5 and assumes continued rates of emissions increases as in recent years, and can be considered a business-as-usual pathway. The medium #1 scenario is officially known as RCP 6.0, the medium #2 scenario as RCP 4.5, and the very low scenario RCP 2.6. The medium #1 scenario starts out with the lowest assumed atmospheric concentrations of heat-trapping gases emissions of all scenarios, but after about the 2060s has the second highest level. The very low scenario assumes rapid and deep reductions in emissions, roughly as would be needed to hold further temperature change to a global average of about 2.5° Fahrenheit.