

EARWIG Results			
Castle Morpeth Council	Baseline	2050s	Change
TEMPERATURE			
Annual average daily temperature (°C)	8.3	10.1	+1.7
Winter average daily temperature (°C)	3.6	5.0	+1.4
Spring average daily temperature (°C)	6.9	8.4	+1.5
Summer average daily temperature (°C)	13.5	15.5	+2.0
Autumn average daily temperature (°C)	9.3	11.3	+2.0
Annual average average maximum temp (°C)	11.4	13.2	+1.8
Winter daily average maximum temp (°C)	6.2	7.6	+1.4
Spring daily average maximum temp (°C)	10.1	11.6	+1.5
Summer daily average maximum temp (°C)	17.0	19.2	+2.2
Autumn daily average maximum temp (°C)	12.3	14.3	+2.0
Annual average average minimum temp (°C)	5.3	6.9	+1.7
Winter daily average minimum temp (°C)	1.0	2.4	+1.4
Spring daily average minimum temp (°C)	3.6	5.1	+1.5
Summer daily average minimum temp (°C)	10.0	11.8	+1.8
Autumn daily minimum temp (°C)	6.3	8.3	+2.0
Winter extreme 5 th percentile (cold) temp (°C)	-3.8	-2.4	+1.4
Spring extreme 5 th percentile (cold) temp (°C)	-1.6	0.0	+1.6
Summer extreme 5 th percentile (cold) temp (°C)	5.5	7.1	+1.5
Autumn extreme 5 th percentile (cold) temp (°C)	-0.1	1.8	+1.9
Winter extreme 10 th percentile (cold) temp (°C)	-2.7	-1.3	+1.5
Spring extreme 10 th percentile (cold) temp (°C)	-0.5	1.0	+1.5
Summer extreme 10 th percentile (cold) temp (°C)	6.6	8.2	+1.5

Castle Morpeth Council	Baseline	2050s	Change
Autumn extreme 10 th percentile (cold) temp (°C)	1.3	3.3	+2.0
Winter extreme 90 th percentile (hot) temp (°C)	10.0	11.4	+1.4
Spring extreme 90 th percentile (hot) temp (°C)	14.9	16.6	+1.7
Summer extreme 90 th percentile (hot) temp (°C)	20.4	23.1	+2.7
Autumn extreme 90 th percentile (hot) temp (°C)	17.1	19.5	+2.4
Winter extreme 95 th percentile (hot) temp (°C)	11.0	12.5	+1.4
Spring extreme 95 th percentile (hot) temp (°C)	16.2	17.9	+1.7
Summer extreme 95 th percentile (hot) temp (°C)	21.6	24.2	+2.7
Autumn extreme 95 th percentile (hot) temp (°C)	18.3	20.9	+2.6
RAINFALL			
Average annual rainfall (mm/year)	827	817	-1.2%
Average winter rainfall (mm/month)	70	83	+19.4%
Average spring rainfall (mm/month)	62	64	+3.2%
Average summer rainfall (mm/month)	67	50	-24.6%
Average autumn rainfall (mm/month)	78	75	-3.2%
1-hour extreme 50% AEP rainfall event (mm)	12	12	-2.4%
3-hour extreme 50% AEP rainfall event (mm)	17	16	-9.1%
6-hour extreme 50% AEP rainfall event (mm)	21	20	-4.8%
12-hour extreme 50% AEP rainfall event (mm)	24	23	-4.2%
1-hour extreme 10% AEP rainfall event (mm)	18	15	-15.1%
3-hour extreme 10% AEP rainfall event (mm)	26	26	-0.8%
6-hour extreme 10% AEP rainfall event (mm)	30	31	+4.8%
12-hour extreme 10% AEP rainfall event (mm)	35	35	+0.3%

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1-day extreme 50% AEP rainfall event (mm)	21	22	+3.8%
2-day extreme 50% AEP rainfall event (mm)	29	29	+1.6%
5-day extreme 50% AEP rainfall event (mm)	43	45	+5.8%
10-day extreme 50% AEP rainfall event (mm)	65	66	+0.3%
1-day extreme 5% AEP rainfall event (mm)	35	40	+13.6%
2-day extreme 5% AEP rainfall event (mm)	43	48	+13.2%
5-day extreme 5% AEP rainfall event (mm)	63	69	+8.5%
10-day extreme 5% AEP rainfall event (mm)	87	96	+11.3%
SNOWFALL			
Annual average daily snowfall (mm)	0.34	0.06	-83.2%
Winter average daily snowfall (mm)	1.21	0.21	-82.7%
Spring average daily snowfall (mm)	0.10	0.02	-82.1%
Summer average daily snowfall (mm)	0.00	0.00	#DIV/0!
Autumn average daily snowfall (mm)	0.08	0.01	-91.9%
FROST			
Frost days (Tmin < 0) per year	49.8	23.5	-52.9%
WIND			
Average annual wind speed (m/s)	5.4	5.4	0.0
Average winter wind speed (m/s)	6.2	6.2	0.0
Average spring wind speed (m/s)	5.6	5.6	0.0
Average summer wind speed (m/s)	4.5	4.5	-0.1
Average autumn wind speed (m/s)	5.5	5.5	+0.0
Mean annual maximum wind speed (m/s)	13.2	13.3	+0.1
SOIL MOISTURE CONTENT			
Winter soil moisture	116.8	114.1	-2.7

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content (mm)	110.8	114.1	+2.7
Spring soil moisture content (mm)	120.4	121.0	+0.6
Summer soil moisture content (mm)	69.7	59.7	-10.0
Autumn soil moisture content (mm)	63.3	52.1	-11.2