

EARWIG Results			
Darlington Borough Council	Baseline	2050s	Change
TEMPERATURE			
Annual average daily temperature (°C)	8.6	10.5	+1.8
Winter average daily temperature (°C)	4.0	5.2	+1.2
Spring average daily temperature (°C)	7.2	8.9	+1.7
Summer average daily temperature (°C)	13.8	16.1	+2.3
Autumn average daily temperature (°C)	9.5	11.5	+2.1
Annual average average maximum temp (°C)	11.9	13.8	+1.9
Winter daily average maximum temp (°C)	6.7	7.9	+1.3
Spring daily average maximum temp (°C)	10.6	12.3	+1.8
Summer daily average maximum temp (°C)	17.6	20.1	+2.6
Autumn daily average maximum temp (°C)	12.6	14.7	+2.1
Annual average average minimum temp (°C)	5.4	7.1	+1.7
Winter daily average minimum temp (°C)	1.3	2.5	+1.2
Spring daily average minimum temp (°C)	3.8	5.4	+1.6
Summer daily average minimum temp (°C)	10.1	12.0	+1.9
Autumn daily minimum temp (°C)	6.3	8.4	+2.0
Winter extreme 5 th percentile (cold) temp (°C)	-3.8	-2.7	+1.1
Spring extreme 5 th percentile (cold) temp (°C)	-1.5	0.1	+1.6
Summer extreme 5 th percentile (cold) temp (°C)	5.6	7.2	+1.7
Autumn extreme 5 th percentile (cold) temp (°C)	0.1	1.9	+1.8
Winter extreme 10 th percentile (cold) temp (°C)	-2.7	-1.4	+1.2
Spring extreme 10 th percentile (cold) temp (°C)	-0.4	1.2	+1.6
Summer extreme 10 th percentile (cold) temp (°C)	6.7	8.3	+1.7

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Autumn extreme 10 th percentile (cold) temp (°C)	1.4	3.3	+1.9
Winter extreme 90 th percentile (hot) temp (°C)	10.6	11.8	+1.2
Spring extreme 90 th percentile (hot) temp (°C)	15.5	17.4	+1.9
Summer extreme 90 th percentile (hot) temp (°C)	21.3	24.1	+2.8
Autumn extreme 90 th percentile (hot) temp (°C)	17.7	20.1	+2.4
Winter extreme 95 th percentile (hot) temp (°C)	11.8	13.0	+1.2
Spring extreme 95 th percentile (hot) temp (°C)	16.7	19.0	+2.2
Summer extreme 95 th percentile (hot) temp (°C)	22.4	25.3	+2.9
Autumn extreme 95 th percentile (hot) temp (°C)	19.0	21.4	+2.4
RAINFALL			
Average annual rainfall (mm/year)	740	703	-5.0%
Average winter rainfall (mm/month)	61	74	+19.8%
Average spring rainfall (mm/month)	57	56	-2.4%
Average summer rainfall (mm/month)	61	43	-28.8%
Average autumn rainfall (mm/month)	67	61	-8.5%
1-hour extreme 50% AEP rainfall event (mm)	11	12	+3.6%
3-hour extreme 50% AEP rainfall event (mm)	16	17	+2.5%
6-hour extreme 50% AEP rainfall event (mm)	20	20	-0.5%
12-hour extreme 50% AEP rainfall event (mm)	23	23	+0.4%
1-hour extreme 10% AEP rainfall event (mm)	16	17	+5.8%
3-hour extreme 10% AEP rainfall event (mm)	23	25	+9.9%
6-hour extreme 10% AEP rainfall event (mm)	33	30	-8.4%
12-hour extreme 10% AEP rainfall event (mm)	34	38	+10.3%

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1-day extreme 50% AEP rainfall event (mm)	23	24	+5.0%
2-day extreme 50% AEP rainfall event (mm)	31	31	+2.6%
5-day extreme 50% AEP rainfall event (mm)	43	46	+6.9%
10-day extreme 50% AEP rainfall event (mm)	61	60	-1.7%
1-day extreme 5% AEP rainfall event (mm)	33	37	+12.4%
2-day extreme 5% AEP rainfall event (mm)	44	51	+15.1%
5-day extreme 5% AEP rainfall event (mm)	60	68	+13.4%
10-day extreme 5% AEP rainfall event (mm)	86	91	+5.9%
SNOWFALL			
Annual average daily snowfall (mm)	0.21	0.08	-63.7%
Winter average daily snowfall (mm)	0.77	0.30	-61.5%
Spring average daily snowfall (mm)	0.04	0.01	-79.1%
Summer average daily snowfall (mm)	0.00	0.00	0.0%
Autumn average daily snowfall (mm)	0.05	0.01	-86.6%
FROST			
Frost days (Tmin < 0) per year	44.9	24.0	-46.5%
WIND			
Average annual wind speed (m/s)	5.2	5.1	-0.1
Average winter wind speed (m/s)	5.8	5.9	+0.1
Average spring wind speed (m/s)	5.3	5.2	-0.1
Average summer wind speed (m/s)	4.4	4.2	-0.2
Average autumn wind speed (m/s)	5.1	5.0	-0.1
Mean annual maximum wind speed (m/s)	12.6	12.6	-0.1
SOIL MOISTURE CONTENT			
Winter soil moisture	132.9	129.0	-3.9

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content (mm)	132.9	129.0	-3.9
Spring soil moisture content (mm)	132.8	130.9	-1.9
Summer soil moisture content (mm)	76.8	62.1	-14.7
Autumn soil moisture content (mm)	70.2	54.9	-15.3