

EARWIG Results			
Alnwick District Council	Baseline	2050s	Change
TEMPERATURE			
Annual average daily temperature (°C)	8.6	10.3	+1.7
Winter average daily temperature (°C)	3.9	5.2	+1.2
Spring average daily temperature (°C)	7.3	8.8	+1.5
Summer average daily temperature (°C)	13.8	15.8	+2.0
Autumn average daily temperature (°C)	9.5	11.4	+2.0
Annual average average maximum temp (°C)	11.8	13.5	+1.8
Winter daily average maximum temp (°C)	6.5	7.8	+1.3
Spring daily average maximum temp (°C)	10.6	12.1	+1.6
Summer daily average maximum temp (°C)	17.4	19.6	+2.2
Autumn daily average maximum temp (°C)	12.5	14.5	+2.0
Annual average average minimum temp (°C)	5.5	7.1	+1.6
Winter daily average minimum temp (°C)	1.3	2.5	+1.2
Spring daily average minimum temp (°C)	4.0	5.5	+1.4
Summer daily average minimum temp (°C)	10.2	12.1	+1.8
Autumn daily minimum temp (°C)	6.4	8.4	+1.9
Winter extreme 5 th percentile (cold) temp (°C)	-3.7	-2.3	+1.4
Spring extreme 5 th percentile (cold) temp (°C)	-1.3	0.3	+1.5
Summer extreme 5 th percentile (cold) temp (°C)	5.9	7.4	+1.5
Autumn extreme 5 th percentile (cold) temp (°C)	-0.1	1.7	+1.8
Winter extreme 10 th percentile (cold) temp (°C)	-2.5	-1.2	+1.3
Spring extreme 10 th percentile (cold) temp (°C)	-0.2	1.3	+1.5
Summer extreme 10 th percentile (cold) temp (°C)	6.9	8.5	+1.6

Alnwick District Council	Baseline	2050s	Change
Autumn extreme 10 th percentile (cold) temp (°C)	1.5	3.2	+1.7
Winter extreme 90 th percentile (hot) temp (°C)	10.4	11.6	+1.2
Spring extreme 90 th percentile (hot) temp (°C)	15.3	17.0	+1.7
Summer extreme 90 th percentile (hot) temp (°C)	20.8	23.4	+2.6
Autumn extreme 90 th percentile (hot) temp (°C)	17.5	20.0	+2.6
Winter extreme 95 th percentile (hot) temp (°C)	11.6	12.7	+1.1
Spring extreme 95 th percentile (hot) temp (°C)	16.6	18.3	+1.7
Summer extreme 95 th percentile (hot) temp (°C)	21.9	24.6	+2.7
Autumn extreme 95 th percentile (hot) temp (°C)	18.7	21.3	+2.6
RAINFALL			
Average annual rainfall (mm/year)	769	748	-2.7%
Average winter rainfall (mm/month)	68	82	+20.6%
Average spring rainfall (mm/month)	55	55	0.0%
Average summer rainfall (mm/month)	61	45	-25.5%
Average autumn rainfall (mm/month)	73	68	-7.2%
1-hour extreme 50% AEP rainfall event (mm)	12	12	-0.5%
3-hour extreme 50% AEP rainfall event (mm)	17	17	+2.5%
6-hour extreme 50% AEP rainfall event (mm)	21	20	-7.8%
12-hour extreme 50% AEP rainfall event (mm)	25	23	-5.5%
1-hour extreme 10% AEP rainfall event (mm)	16	17	+4.2%
3-hour extreme 10% AEP rainfall event (mm)	26	25	-3.9%
6-hour extreme 10% AEP rainfall event (mm)	31	33	+6.9%
12-hour extreme 10% AEP rainfall event (mm)	42	44	+4.1%

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1-day extreme 50% AEP rainfall event (mm)	25	26	+1.2%
2-day extreme 50% AEP rainfall event (mm)	34	33	-2.8%
5-day extreme 50% AEP rainfall event (mm)	48	48	-1.6%
10-day extreme 50% AEP rainfall event (mm)	69	67	-1.6%
1-day extreme 5% AEP rainfall event (mm)	44	43	-1.2%
2-day extreme 5% AEP rainfall event (mm)	53	61	+15.0%
5-day extreme 5% AEP rainfall event (mm)	71	80	+11.9%
10-day extreme 5% AEP rainfall event (mm)	88	104	+19.0%
SNOWFALL			
Annual average daily snowfall (mm)	0.26	0.09	-64.8%
Winter average daily snowfall (mm)	0.96	0.35	-63.1%
Spring average daily snowfall (mm)	0.08	0.01	-90.1%
Summer average daily snowfall (mm)	0.00	0.00	0.0%
Autumn average daily snowfall (mm)	0.02	0.01	-37.4%
FROST			
Frost days (Tmin < 0) per year	44.2	22.9	-48.3%
WIND			
Average annual wind speed (m/s)	5.5	5.4	-0.1
Average winter wind speed (m/s)	6.1	6.2	+0.1
Average spring wind speed (m/s)	5.6	5.5	-0.1
Average summer wind speed (m/s)	4.6	4.5	-0.1
Average autumn wind speed (m/s)	5.5	5.4	-0.1
Mean annual maximum wind speed (m/s)	13.1	13.2	+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