

EARWIG Results			
Berwick upon Tweed Borough Council	Baseline	2050s	Change
TEMPERATURE			
Annual average daily temperature (°C)	7.8	9.5	+1.7
Winter average daily temperature (°C)	2.9	4.3	+1.3
Spring average daily temperature (°C)	6.5	7.9	+1.5
Summer average daily temperature (°C)	12.9	15.0	+2.1
Autumn average daily temperature (°C)	8.6	10.6	+1.9
Annual average average maximum temp (°C)	10.9	12.7	+1.8
Winter daily average maximum temp (°C)	5.5	6.8	+1.3
Spring daily average maximum temp (°C)	9.8	11.3	+1.5
Summer daily average maximum temp (°C)	16.5	18.9	+2.4
Autumn daily average maximum temp (°C)	11.6	13.6	+2.0
Annual average average minimum temp (°C)	4.6	6.3	+1.6
Winter daily average minimum temp (°C)	0.4	1.7	+1.3
Spring daily average minimum temp (°C)	3.1	4.6	+1.4
Summer daily average minimum temp (°C)	9.3	11.2	+1.8
Autumn daily minimum temp (°C)	5.7	7.5	+1.9
Winter extreme 5 th percentile (cold) temp (°C)	-4.7	-3.2	+1.5
Spring extreme 5 th percentile (cold) temp (°C)	-2.2	-0.8	+1.3
Summer extreme 5 th percentile (cold) temp (°C)	4.8	6.5	+1.6
Autumn extreme 5 th percentile (cold) temp (°C)	-0.8	0.9	+1.7
Winter extreme 10 th percentile (cold) temp (°C)	-3.5	-2.1	+1.4
Spring extreme 10 th percentile (cold) temp (°C)	-1.1	0.3	+1.3
Summer extreme 10 th percentile (cold) temp (°C)	6.0	7.5	+1.6

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Autumn extreme 10 th percentile (cold) temp (°C)	0.7	2.4	+1.7
Winter extreme 90 th percentile (hot) temp (°C)	9.3	10.6	+1.3
Spring extreme 90 th percentile (hot) temp (°C)	14.6	16.3	+1.7
Summer extreme 90 th percentile (hot) temp (°C)	20.0	22.8	+2.8
Autumn extreme 90 th percentile (hot) temp (°C)	16.6	19.0	+2.4
Winter extreme 95 th percentile (hot) temp (°C)	10.5	11.7	+1.3
Spring extreme 95 th percentile (hot) temp (°C)	16.0	17.6	+1.6
Summer extreme 95 th percentile (hot) temp (°C)	21.2	24.1	+2.9
Autumn extreme 95 th percentile (hot) temp (°C)	17.8	20.3	+2.5
RAINFALL			
Average annual rainfall (mm/year)	894	852	-4.7%
Average winter rainfall (mm/month)	78	85	+8.7%
Average spring rainfall (mm/month)	63	67	+5.8%
Average summer rainfall (mm/month)	75	51	-31.8%
Average autumn rainfall (mm/month)	81	81	-0.6%
1-hour extreme 50% AEP rainfall event (mm)	14	13	-3.8%
3-hour extreme 50% AEP rainfall event (mm)	21	20	-5.7%
6-hour extreme 50% AEP rainfall event (mm)	26	25	-4.0%
12-hour extreme 50% AEP rainfall event (mm)	30	28	-6.4%
1-hour extreme 10% AEP rainfall event (mm)	22	19	-16.6%
3-hour extreme 10% AEP rainfall event (mm)	32	32	-1.6%
6-hour extreme 10% AEP rainfall event (mm)	45	41	-9.0%
12-hour extreme 10% AEP rainfall event (mm)	40	46	+12.9%

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1-day extreme 50% AEP rainfall event (mm)	29	28	-1.9%
2-day extreme 50% AEP rainfall event (mm)	35	39	+10.6%
5-day extreme 50% AEP rainfall event (mm)	53	56	+6.3%
10-day extreme 50% AEP rainfall event (mm)	76	77	+1.4%
1-day extreme 5% AEP rainfall event (mm)	47	46	-1.6%
2-day extreme 5% AEP rainfall event (mm)	64	63	-1.0%
5-day extreme 5% AEP rainfall event (mm)	86	89	+4.5%
10-day extreme 5% AEP rainfall event (mm)	122	117	-4.0%
SNOWFALL			
Annual average daily snowfall (mm)	0.89	0.19	-79.2%
Winter average daily snowfall (mm)	3.30	0.70	-78.7%
Spring average daily snowfall (mm)	0.18	0.02	-87.3%
Summer average daily snowfall (mm)	0.00	0.00	0.0%
Autumn average daily snowfall (mm)	0.12	0.02	-82.0%
FROST			
Frost days (Tmin < 0) per year	61.7	36.2	-41.4%
WIND			
Average annual wind speed (m/s)	5.4	5.3	-0.1
Average winter wind speed (m/s)	6.0	6.0	+0.0
Average spring wind speed (m/s)	5.6	5.5	-0.1
Average summer wind speed (m/s)	4.6	4.4	-0.2
Average autumn wind speed (m/s)	5.4	5.4	0.0
Mean annual maximum wind speed (m/s)	13.5	13.3	-0.2

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SOIL MOISTURE CONTENT			
Winter soil moisture content (mm)	159.0	160.1	+1.1
Spring soil moisture content (mm)	152.4	151.2	-1.2
Summer soil moisture content (mm)	130.6	113.6	-17.0
Autumn soil moisture content (mm)	139.9	123.4	-16.5