

<b>EARWIG Results</b>			
<b>Tynedale Council</b>	<b>Baseline</b>	<b>2050s</b>	<b>Change</b>
<b>TEMPERATURE</b>			
Annual average daily temperature (°C)	7.1	8.9	+1.8
Winter average daily temperature (°C)	2.3	3.6	+1.3
Spring average daily temperature (°C)	5.7	7.4	+1.6
Summer average daily temperature (°C)	12.3	14.4	+2.1
Autumn average daily temperature (°C)	8.0	10.1	+2.1
Annual average average maximum temp (°C)	10.2	12.1	+1.9
Winter daily average maximum temp (°C)	4.9	6.2	+1.3
Spring daily average maximum temp (°C)	9.0	10.7	+1.7
Summer daily average maximum temp (°C)	15.8	18.3	+2.5
Autumn daily average maximum temp (°C)	10.9	13.1	+2.1
Annual average average minimum temp (°C)	4.0	5.7	+1.7
Winter daily average minimum temp (°C)	-0.2	1.1	+1.3
Spring daily average minimum temp (°C)	2.4	4.0	+1.5
Summer daily average minimum temp (°C)	8.7	10.5	+1.8
Autumn daily minimum temp (°C)	5.0	7.1	+2.1
Winter extreme 5 <sup>th</sup> percentile (cold) temp (°C)	-5.5	-3.9	+1.6
Spring extreme 5 <sup>th</sup> percentile (cold) temp (°C)	-2.9	-1.3	+1.6
Summer extreme 5 <sup>th</sup> percentile (cold) temp (°C)	4.0	5.4	+1.4
Autumn extreme 5 <sup>th</sup> percentile (cold) temp (°C)	-1.4	0.7	+2.1
Winter extreme 10 <sup>th</sup> percentile (cold) temp (°C)	-4.2	-2.8	+1.4
Spring extreme 10 <sup>th</sup> percentile (cold) temp (°C)	-1.7	-0.2	+1.5
Summer extreme 10 <sup>th</sup> percentile (cold) temp (°C)	5.1	6.7	+1.6

Tynedale Council	Baseline	2050s	Change
Autumn extreme 10 <sup>th</sup> percentile (cold) temp (°C)	0.1	2.1	+2.0
Winter extreme 90 <sup>th</sup> percentile (hot) temp (°C)	8.8	10.1	+1.3
Spring extreme 90 <sup>th</sup> percentile (hot) temp (°C)	14.1	15.9	+1.8
Summer extreme 90 <sup>th</sup> percentile (hot) temp (°C)	19.5	22.4	+2.9
Autumn extreme 90 <sup>th</sup> percentile (hot) temp (°C)	16.0	18.6	+2.6
Winter extreme 95 <sup>th</sup> percentile (hot) temp (°C)	9.9	11.1	+1.2
Spring extreme 95 <sup>th</sup> percentile (hot) temp (°C)	15.4	17.4	+2.0
Summer extreme 95 <sup>th</sup> percentile (hot) temp (°C)	20.8	23.8	+3.0
Autumn extreme 95 <sup>th</sup> percentile (hot) temp (°C)	17.1	20.0	+2.9
<b>RAINFALL</b>			
Average annual rainfall (mm/year)	1095	1062	-3.0%
Average winter rainfall (mm/month)	101	114	+13.7%
Average spring rainfall (mm/month)	77	74	-3.5%
Average summer rainfall (mm/month)	86	65	-24.8%
Average autumn rainfall (mm/month)	101	100	-0.8%
1-hour extreme 50% AEP rainfall event (mm)	14	14	-2.9%
3-hour extreme 50% AEP rainfall event (mm)	18	18	+0.3%
6-hour extreme 50% AEP rainfall event (mm)	20	22	+10.2%
12-hour extreme 50% AEP rainfall event (mm)	23	25	+8.8%
1-hour extreme 10% AEP rainfall event (mm)	20	19	-3.5%
3-hour extreme 10% AEP rainfall event (mm)	24	28	+12.9%
6-hour extreme 10% AEP rainfall event (mm)	28	32	+11.5%
12-hour extreme 10% AEP rainfall event (mm)	32.0	34.0	+7.3%

Tynedale Council	Baseline	2050s	Change
1-day extreme 50% AEP rainfall event (mm)	26	27	+2.3%
2-day extreme 50% AEP rainfall event (mm)	35	37	+6.9%
5-day extreme 50% AEP rainfall event (mm)	54	59	+8.3%
10-day extreme 50% AEP rainfall event (mm)	82	89	+8.9%
1-day extreme 5% AEP rainfall event (mm)	37	41	+11.6%
2-day extreme 5% AEP rainfall event (mm)	49	54	+10.2%
5-day extreme 5% AEP rainfall event (mm)	75	86	+13.7%
10-day extreme 5% AEP rainfall event (mm)	103	116	+13.2%
<b>SNOWFALL</b>			
Annual average daily snowfall (mm)	2.18	0.64	-70.8%
Winter average daily snowfall (mm)	7.24	2.38	-67.1%
Spring average daily snowfall (mm)	1.18	0.12	-89.6%
Summer average daily snowfall (mm)	0.00	0.00	0.0%
Autumn average daily snowfall (mm)	0.39	0.07	-80.9%
<b>FROST</b>			
Frost days (Tmin < 0) per year	77.2	45.2	-41.5%
<b>WIND</b>			
Average annual wind speed (m/s)	5.2	5.1	-0.1
Average winter wind speed (m/s)	5.8	5.7	0.0
Average spring wind speed (m/s)	5.4	5.3	-0.1
Average summer wind speed (m/s)	4.4	4.3	-0.2
Average autumn wind speed (m/s)	5.3	5.2	0.0
Mean annual maximum wind speed (m/s)	13.0	12.8	-0.2
<b>SOIL MOISTURE CONTENT</b>			
Winter soil moisture	156.1	155.2	-0.9

Tynedale Council	Baseline	2050s	Change
content (mm)	130.1	130.2	0.9
Spring soil moisture content (mm)	145.7	144.2	-1.5
Summer soil moisture content (mm)	109.7	92.0	-17.7
Autumn soil moisture content (mm)	118.0	97.1	-20.9