

EARWIG Results			
Derwentside District Council	Baseline	2050s	Change
TEMPERATURE			
Annual average daily temperature (°C)	8.6	10.5	+1.8
Winter average daily temperature (°C)	3.8	5.3	+1.4
Spring average daily temperature (°C)	7.3	8.9	+1.6
Summer average daily temperature (°C)	13.9	16.1	+2.2
Autumn average daily temperature (°C)	9.4	11.6	+2.1
Annual average average maximum temp (°C)	11.8	13.8	+1.9
Winter daily average maximum temp (°C)	6.5	7.9	+1.4
Spring daily average maximum temp (°C)	10.7	12.3	+1.7
Summer daily average maximum temp (°C)	17.6	20.1	+2.5
Autumn daily average maximum temp (°C)	12.5	14.7	+2.2
Annual average average minimum temp (°C)	5.4	7.1	+1.7
Winter daily average minimum temp (°C)	1.2	2.6	+1.4
Spring daily average minimum temp (°C)	3.9	5.4	+1.5
Summer daily average minimum temp (°C)	10.2	12.1	+1.9
Autumn daily minimum temp (°C)	6.3	8.4	+2.1
Winter extreme 5 th percentile (cold) temp (°C)	-4.0	-2.4	+1.7
Spring extreme 5 th percentile (cold) temp (°C)	-1.5	0.1	+1.6
Summer extreme 5 th percentile (cold) temp (°C)	5.7	7.2	+1.5
Autumn extreme 5 th percentile (cold) temp (°C)	-0.3	1.6	+1.9
Winter extreme 10 th percentile (cold) temp (°C)	-2.7	-1.3	+1.5
Spring extreme 10 th percentile (cold) temp (°C)	-0.3	1.3	+1.6
Summer extreme 10 th percentile (cold) temp (°C)	6.8	8.4	+1.6

Derwentside District Council	Baseline	2050s	Change
Autumn extreme 10 th percentile (cold) temp (°C)	1.3	3.1	+1.9
Winter extreme 90 th percentile (hot) temp (°C)	10.4	11.8	+1.3
Spring extreme 90 th percentile (hot) temp (°C)	15.5	17.4	+1.9
Summer extreme 90 th percentile (hot) temp (°C)	21.2	24.0	+2.9
Autumn extreme 90 th percentile (hot) temp (°C)	17.7	20.4	+2.8
Winter extreme 95 th percentile (hot) temp (°C)	11.7	12.9	+1.2
Spring extreme 95 th percentile (hot) temp (°C)	16.8	18.8	+2.0
Summer extreme 95 th percentile (hot) temp (°C)	22.4	25.2	+2.8
Autumn extreme 95 th percentile (hot) temp (°C)	19.0	21.8	+2.9
RAINFALL			
Average annual rainfall (mm/year)	717	686	-4.4%
Average winter rainfall (mm/month)	59	70	+18.5%
Average spring rainfall (mm/month)	53	56	+6.5%
Average summer rainfall (mm/month)	59	40	-32.3%
Average autumn rainfall (mm/month)	68	63	-8.5%
1-hour extreme 50% AEP rainfall event (mm)	12	11	-6.2%
3-hour extreme 50% AEP rainfall event (mm)	18	17	-2.9%
6-hour extreme 50% AEP rainfall event (mm)	23	22	-0.7%
12-hour extreme 50% AEP rainfall event (mm)	27	26	-5.0%
1-hour extreme 10% AEP rainfall event (mm)	21	21	-2.2%
3-hour extreme 10% AEP rainfall event (mm)	28	27	-3.3%
6-hour extreme 10% AEP rainfall event (mm)	35	35	-0.3%
12-hour extreme 10% AEP rainfall event (mm)	39	42	+9.3%

Derwentside District Council	Baseline	2050s	Change
1-day extreme 50% AEP rainfall event (mm)	27	25	-9.6%
2-day extreme 50% AEP rainfall event (mm)	35	33	-4.9%
5-day extreme 50% AEP rainfall event (mm)	48	49	+0.5%
10-day extreme 50% AEP rainfall event (mm)	66	69	+4.3%
1-day extreme 5% AEP rainfall event (mm)	44	45	+2.3%
2-day extreme 5% AEP rainfall event (mm)	57	55	-3.8%
5-day extreme 5% AEP rainfall event (mm)	76	69	-8.6%
10-day extreme 5% AEP rainfall event (mm)	100	97	-2.9%
SNOWFALL			
Annual average daily snowfall (mm)	0.23	0.06	-73.8%
Winter average daily snowfall (mm)	0.84	0.23	-72.6%
Spring average daily snowfall (mm)	0.05	0.01	-86.7%
Summer average daily snowfall (mm)	0.00	0.00	0.0%
Autumn average daily snowfall (mm)	0.04	0.01	-82.3%
FROST			
Frost days (Tmin < 0) per year	47.4	23.4	-50.7%
WIND			
Average annual wind speed (m/s)	5.3	5.2	-0.1
Average winter wind speed (m/s)	6.0	5.9	0.0
Average spring wind speed (m/s)	5.4	5.4	-0.1
Average summer wind speed (m/s)	4.5	4.3	-0.2
Average autumn wind speed (m/s)	5.3	5.2	-0.1
Mean annual maximum wind speed (m/s)	12.9	13.2	+0.2
SOIL MOISTURE CONTENT			
Winter soil moisture	80.2	80.4	+0.2

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content (mm)	80.2	80.4	+0.2
Spring soil moisture content (mm)	85.3	87.7	+2.4
Summer soil moisture content (mm)	35.2	31.2	-4.0
Autumn soil moisture content (mm)	32.7	27.8	-4.9