

EARWIG Results			
Wear Valley District Council	Baseline	2050s	Change
TEMPERATURE			
Annual average daily temperature (°C)	5.5	7.2	+1.7
Winter average daily temperature (°C)	0.8	2.1	+1.3
Spring average daily temperature (°C)	4.0	5.6	+1.6
Summer average daily temperature (°C)	10.7	12.8	+2.0
Autumn average daily temperature (°C)	6.3	8.3	+2.0
Annual average average maximum temp (°C)	8.5	10.4	+1.9
Winter daily average maximum temp (°C)	3.2	4.5	+1.3
Spring daily average maximum temp (°C)	7.2	9.0	+1.7
Summer daily average maximum temp (°C)	14.4	16.7	+2.4
Autumn daily average maximum temp (°C)	9.1	11.2	+2.1
Annual average average minimum temp (°C)	2.5	4.1	+1.6
Winter daily average minimum temp (°C)	-1.5	-0.2	+1.3
Spring daily average minimum temp (°C)	0.7	2.3	+1.5
Summer daily average minimum temp (°C)	7.1	8.8	+1.7
Autumn daily minimum temp (°C)	3.4	5.4	+2.0
Winter extreme 5 th percentile (cold) temp (°C)	-6.8	-5.4	+1.4
Spring extreme 5 th percentile (cold) temp (°C)	-4.9	-3.3	+1.5
Summer extreme 5 th percentile (cold) temp (°C)	2.1	3.2	+1.2
Autumn extreme 5 th percentile (cold) temp (°C)	-3.0	-1.0	+2.0
Winter extreme 10 th percentile (cold) temp (°C)	-5.5	-4.1	+1.4
Spring extreme 10 th percentile (cold) temp (°C)	-3.7	-2.2	+1.6
Summer extreme 10 th percentile (cold) temp (°C)	3.4	4.6	+1.3

Wear Valley District Council	Baseline	2050s	Change
Autumn extreme 10 th percentile (cold) temp (°C)	-1.4	0.4	+1.8
Winter extreme 90 th percentile (hot) temp (°C)	7.1	8.4	+1.3
Spring extreme 90 th percentile (hot) temp (°C)	12.5	14.5	+2.0
Summer extreme 90 th percentile (hot) temp (°C)	18.5	21.4	+2.9
Autumn extreme 90 th percentile (hot) temp (°C)	14.3	16.8	+2.4
Winter extreme 95 th percentile (hot) temp (°C)	8.2	9.6	+1.4
Spring extreme 95 th percentile (hot) temp (°C)	14.0	16.2	+2.2
Summer extreme 95 th percentile (hot) temp (°C)	19.7	22.9	+3.1
Autumn extreme 95 th percentile (hot) temp (°C)	15.5	18.1	+2.7
RAINFALL			
Average annual rainfall (mm/year)	1527	1466	-4.0%
Average winter rainfall (mm/month)	161	174	+7.6%
Average spring rainfall (mm/month)	108	106	-1.6%
Average summer rainfall (mm/month)	97	69	-28.5%
Average autumn rainfall (mm/month)	142	139	-2.4%
1-hour extreme 50% AEP rainfall event (mm)	17	17	-0.3%
3-hour extreme 50% AEP rainfall event (mm)	23	23	-1.5%
6-hour extreme 50% AEP rainfall event (mm)	27	28	+6.0%
12-hour extreme 50% AEP rainfall event (mm)	32	31	+2.8%
1-hour extreme 10% AEP rainfall event (mm)	23	23	2.0%
3-hour extreme 10% AEP rainfall event (mm)	35	34	-4.6%
6-hour extreme 10% AEP rainfall event (mm)	44	44	+0.7%
12-hour extreme 10% AEP rainfall event (mm)	47	51	+9.2%

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1-day extreme 50% AEP rainfall event (mm)	38	40	+4.2%
2-day extreme 50% AEP rainfall event (mm)	55	55	-1.4%
5-day extreme 50% AEP rainfall event (mm)	88	86	-2.8%
10-day extreme 50% AEP rainfall event (mm)	125	136	+8.1%
1-day extreme 5% AEP rainfall event (mm)	57	63	+9.6%
2-day extreme 5% AEP rainfall event (mm)	74	83	+12.7%
5-day extreme 5% AEP rainfall event (mm)	116	126	+8.4%
10-day extreme 5% AEP rainfall event (mm)	172	189	+9.9%
SNOWFALL			
Annual average daily snowfall (mm)	16.20	5.61	-65.4%
Winter average daily snowfall (mm)	37.92	16.53	-56.4%
Spring average daily snowfall (mm)	25.73	5.70	-77.8%
Summer average daily snowfall (mm)	0.00	0.00	-100.0%
Autumn average daily snowfall (mm)	1.43	0.37	-74.0%
FROST			
Frost days (Tmin < 0) per year	117.0	79.8	-31.8%
WIND			
Average annual wind speed (m/s)	5.4	5.3	-0.1
Average winter wind speed (m/s)	5.9	6.0	+0.0
Average spring wind speed (m/s)	5.7	5.6	-0.1
Average summer wind speed (m/s)	4.7	4.5	-0.2
Average autumn wind speed (m/s)	5.3	5.1	-0.1
Mean annual maximum wind speed (m/s)	14.1	13.9	-0.1
SOIL MOISTURE CONTENT			
Winter soil moisture	179.8	182.1	+2.3

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content (mm)	179.8	182.1	+2.3
Spring soil moisture content (mm)	172.1	170.6	-1.5
Summer soil moisture content (mm)	156.3	140.5	-15.8
Autumn soil moisture content (mm)	167.5	155.9	-11.6