

Appendix 3: PM Data, 2024 and National Air Quality Objectives

Low-cost sensors PM ₁₀ µg/m ³ 2024	
Worcestershire High	12.69
Worcestershire Low	8.53
Worcestershire Average	10.47
Bromsgrove High (Hanover Street)	12.69
Bromsgrove Low (Hagley)	9.41
Bromsgrove Average	10.86
Defra Background Maps (BDC) Average	12.31
Low-cost sensors PM _{2.5} µg/m ³ 2024	
Worcestershire High	7.96
Worcestershire Low	5.42
Worcestershire Average	6.90
Bromsgrove High (Hanover Street)	7.96
Bromsgrove Low (Hagley)	6.23
Bromsgrove Average	6.99
Defra Background Maps (BDC) Average	6.57

Also Worcester Road, Wychbold PM₁₀ analyser 15.2 µg/m³ in 2024

6.1 Local Air Quality Management Framework		
The Air Quality (England) Regulations 2000 (2002 as amended)		
These pollutant limits apply locally under the Air Quality Management framework.		
Pollutant	Objective	Averaging Period
Fine and coarse particulate matter - PM10	50 µg/m ³ not to be exceeded more than 35 times/ year	24-hour mean
Fine and coarse particulate matter - PM10	40 µg/m ³	Annual mean

WHO Air Quality Guidelines PM₁₀ Annual Mean is 15 µg/m³

6.2 Environment Act PM2.5		
The Environmental Targets (Fine Particulate Matter) (England) Regulations 2023		
Pollutant and metric	Target	Target year
PM2.5 annual mean concentration	Interim target: 12 µg/m ³	2028
PM2.5 annual mean concentration	Legally binding target: 10 µg/m ³	2040
PM2.5 population exposure	Interim target: 22% reduction in exposure compared to 2018	2028
PM2.5 population exposure	Legally binding target: 35% reduction in exposure compared to 2018	2040

WHO Air Quality guidelines PM_{2.5} Annual Mean is 5 µg/m³