

SCHEDULE 12

Regulations 26(2)(a) & 29

Collation of information and criteria for aggregating data and calculating statistical parameters

PART 1

Information to be submitted to the Commission

1. The following information on ozone concentrations shall be obtained and collated—

	<i>Type of station</i>	<i>Level</i>	<i>Averaging/accumulation time</i>	<i>Provisional data for each month from April to September</i>	<i>Report for each year</i>
Information threshold	Any	180µg/m ³	1 hour	For each day with any exceedance: date, total hours of, exceedance, maximum 1 hour ozone and related NO ₂ values when required and monthly 1 hour maximum ozone	For each day with any exceedance: date, total hours of, exceedance, maximum 1 hour ozone and related NO ₂ values, when required
Alert threshold	Any	240µg/m ³	1 hour	For each day with any exceedance: date, total hours of, exceedance, maximum 1 hour ozone and related NO ₂ values, when required	For each day with any exceedance: date, total hours of, exceedance, maximum 1 hour ozone and related NO ₂ values, when required
Health protection	Any	120µg/m ³	8 hours	For each day with any exceedance: date, 8 hours maximum ⁽¹⁾	For each day with any exceedance: date, 8 hours maximum ⁽¹⁾

(1) Maximum daily 8-hour mean.

(2) In this table, “AOT40” has the same meaning as in paragraph 3(d) of Part 4 of Schedule 1.

Status: This is the original version (as it was originally made).

	<i>Type of station</i>	<i>Level</i>	<i>Averaging/accumulation time</i>	<i>Provisional data for each month from April to September</i>	<i>Report for each year</i>
Vegetation protection	Suburban, rural, rural background	AOT40 ⁽²⁾ = 6,000 µg/m ³ .h	1 hour, accumulated from May to June		Value
Forest protection	Suburban, rural, rural background	AOT40 ⁽²⁾ = 20,000µg/m ³ .h	1 hour, accumulated from April to September		Value
Materials	Any	40 µg/m ³	1 year		Value

(1) Maximum daily 8-hour mean.

(2) In this table, "AOT40" has the same meaning as in paragraph 3(d) of Part 4 of Schedule 1.

2. The Scottish Ministers shall also ensure that the following information is collated–

- (a) for ozone, nitrogen dioxide, oxides of nitrogen and the sums of ozone and nitrogen dioxide (added as parts per billion and expressed in µg/m³ ozone) the maximum, 99.9th, 98th and 50th percentiles and annual average and number of valid data from hourly series; and
- (b) the maximum, 98th and 50th percentile and annual average from a series of daily 8-hour ozone maxima.

3. Data collated in monthly reports shall be considered provisional and shall be updated where necessary in subsequent submissions.

PART 2

Criteria for aggregating data and calculating statistical parameters

4. In this Part, percentiles are to be calculated using the method specified in Council Decision [97/101/EC\(1\)](#) establishing a reciprocal exchange of information and data from networks and individual stations measuring ambient air pollution within member States.

5. The following criteria are to be used for checking validity when aggregating data and calculating statistical parameters–

<i>Parameter</i>	<i>Required proportion of valid data</i>
1 hour values	75% (45 minutes)
8 hour values	75% of values (6 hours)

(1) In this table "AOT40" has the same meaning as in paragraph 3(d) of Part 4 of Schedule 1.

(2) In cases where all possible measured data are not available, the following factor shall be used to calculate AOT40 values: AOT40 (estimate) = AOT40 measured x (total possible number of hours ÷ number of measured hourly values). The reference in this formula to the total possible number of hours is to the hours within the time period of AOT40 definition (that is, 08:00 to 20:00 Central European Time from 1st May to 31st July each year, for vegetation protection and from 1st April to 30th September each year for forest protection).

(1) O.J. L 35, 05.02.97, p.14.

<i>Parameter</i>	<i>Required proportion of valid data</i>
Maximum daily 8 hours mean from hourly running 8 hours averages	75% of the hourly running 8 hour averages (18 8 hours averages per day)
AOT40 ⁽¹⁾	90% of the 1 hour values over the time period defined for calculating the AOT40 value ⁽²⁾
Annual mean	75% of the 1 hour values over summer (April to September) and winter (January to March, October to December) seasons separately
Number of exceedances and maximum values per month	90% of the daily maximum 8 hours mean value (27 available daily values per month)
	90% of the 1 hour values between 08:00 and 20:00 Central European Time
Number of exceedances and maximum values per year	Five out of six summer months over the summer season (April to September)

(1) In this table “AOT40” has the same meaning as in paragraph 3(d) of Part 4 of Schedule 1.

(2) In cases where all possible measured data are not available, the following factor shall be used to calculate AOT40 values: $AOT40 \text{ (estimate)} = AOT40 \text{ measured} \times (\text{total possible number of hours} \div \text{number of measured hourly values})$. The reference in this formula to the total possible number of hours is to the hours within the time period of AOT40 definition (that is, 08:00 to 20:00 Central European Time from 1st May to 31st July each year, for vegetation protection and from 1st April to 30th September each year for forest protection).