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SCHEDULE 8

INFORMATION TO BE OBTAINED AND COLLATED ON OZONE CONCENTRATIONS, AND CRITERIA FOR AGGREGATING DATA AND CALCULATING STATISTICAL PARAMETERS

PART I

INFORMATION ON OZONE CONCENTRATIONS

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 date for each month from April to September</i>	<i>Report for each year</i>
Information threshold	Any	180µg/m <sup>3</sup>	1 hour	— for each day with any exceedance date, total hours of exceedance maximum 1 hour ozone and related NO <sub>2</sub> values when required. — monthly 1 hour maximum ozone.	— for each day with any exceedance: date, total hours of exceedance, maximum 1 hour ozone and related NO <sub>2</sub> values when required.
Alert threshold	Any	240µg/m <sup>3</sup>	1 hour	— for each day with any exceedance: date, total hours of exceedance, maximum 1 hour ozone and related NO <sub>2</sub>	— for each day with any exceedance: date, total hours of exceedance, maximum 1 hour ozone and related NO <sub>2</sub> values when required.

(a) in this Schedule, “AOT40” has the same meaning as in paragraph (d) of Part I to Schedule 1.

(b) maximum daily 8-hour mean.

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	<i>Type of station</i>	<i>Level</i>	<i>Averaging/accumulation time</i>	<i>Provisional date for each month from April to September</i>	<i>Report for each year</i>
Health protection	Any	120µg/m <sup>3</sup>	8 hours	values when required – for each day with any exceedance: date, 8 hours maximum <sup>(b)</sup>	– for each day with any exceedance: date, 8 hours maximum <sup>(b)</sup>
Vegetation protection	Suburban, rural, rural=background	AOT40 <sup>(a)</sup> 6,000 µg/m <sup>3</sup> ·h	1 hour, accumulated from May to June		Value
Forest protection	Suburban, rural, rural=background	AOT40 <sup>(a)</sup> 20,000 µg/m <sup>3</sup> ·h	1 hour, accumulated from April to September		Value
Materials	Any	40µg/m <sup>3</sup>	1 year		Value

(a) in this Schedule, “AOT40” has the same meaning as in paragraph (d) of Part I to Schedule 1.

(b) maximum daily 8-hour mean.

Where they do not do so already, annual reports must also contain:

- (a) for ozone, nitrogen dioxide, oxides of nitrogen and the sums of ozone and nitrogen dioxide (added as parts per billion and expressed in mg/m<sup>3</sup> 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.

Data submitted in monthly reports are considered provisional and shall be updated where necessary in subsequent submissions.

## PART II

### CRITERIA FOR AGGREGATING DATA AND CALCULATING STATISTICAL PARAMETERS

In this Part, percentiles are to be calculated using the method specified in Council Directive [97/101/EC\(1\)](#).

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

(1) O.J. No. L35, 5.2.1997, p. 14

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<i>Parameter</i>	<i>Required proportion of valid data</i>
1 hour values	75% (45 minutes)
8 hour values	75% of values (6 hours)
Maximum daily 8 hours mean from hourly running 8 hours averages	75% of the hourly running 8 hour averages (8 hours per day)
AOT40	90% of the 1 hour values over the time period defined for calculating the AOT40 <sup>(b)</sup>
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 8:00 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)

(b) in cases where all possible measured data are not available, the following factor shall be used to calculate AOT40 values:

$$AOT40 \text{ (estimate)} = AOT40 \text{ (measured)} \times \frac{\text{total possible number of hours}^*}{\text{number of measured hourly values}}$$

\* being the number of hours within the time period of AOT40 definition (that is, 8:00 to 20:00 Central European Time from 1 May to 31 July each year, for vegetation protection and from 1 April to 30 September each year for forest protection).