

# Appendix 1. Air Atlas Pollution Estimates

## Eastern Rivers and Mountains Network

| Park | Ozone  |     |            |        |     |           | Wet Deposition |               | Visibility    |           |                   |
|------|--------|-----|------------|--------|-----|-----------|----------------|---------------|---------------|-----------|-------------------|
|      | 2nd Hi | 1hr | #1hr > 100 | 4th Hi | 8hr | #8hr > 85 | Sum06 3 Mo     | Total S kg/Ha | Total N kg/Ha | bext Mm-1 | bext Hazy20% Mm-1 |
| ALPO | 114    |     | 18         | 90     |     | 8         | 24             | 6.31          | 4.99          | 30        | 186               |
| BLUE | 110    |     | 10         | 85     |     | 6         | 28             | 4.58          | 3.54          | 35        | 190               |
| DEWA | 122    |     | 26         | 93     |     | 10        | 28             | 4.41          | 3.89          | 31        | 169               |
| FONE | 114    |     | 18         | 90     |     | 8         | 29             | 6.36          | 4.88          | 31        | 191               |
| FRHI | 114    |     | 18         | 89     |     | 8         | 34             | 6.32          | 4.81          | 31        | 191               |
| GARI | 112    |     | 13         | 86     |     | 6         | 25             | 4.94          | 3.81          | 34        | 190               |
| JOFL | 115    |     | 18         | 90     |     | 8         | 24             | 6.26          | 4.92          | 31        | 187               |
| NERI | 111    |     | 12         | 86     |     | 6         | 26             | 4.91          | 3.78          | 34        | 190               |
| UPDE | 122    |     | 23         | 91     |     | 8         | 22             | 4.56          | 4.07          | 30        | 168               |

Class: refers to an area's designation under the Clean Air Act

Ozone information represents 5-yr average of annual values from 1995-1999

2nd High 1 hr concentration (ppb): indicates peak values for ozone; old standard of 0.12 ppm (120 ppb) was based on 2nd hi,1-hr average

4th high 8 hr concentration (ppb): new ozone standard of 0.08 ppm (80 ppb) is based on 4th hi, 8-hr average

#8 hours>85 ppb: indicates how often the area would be in violation of the new 8-hr standard of 0.08 ppm

# hours> 100 ppb: high peaks in ozone concentration, as well as cumulative dose, contribute to vegetation injury

SUM06\_3mon (ppm-hrs) - sum of hourly ozone conc $\geq$ 0.06 ppm (60 ppb) over 3 months (~ growing season), i.e., cumulative ozone dose

NADP information represents 6-yr average of annual values from 1995-2000

NADP deposition (kg/ha/yr): estimate of pollutants deposited to ecosystem by precipitation (NADP-National Atmospheric Deposition Program)

NADP Total S - sulfur from sulfate deposited by precipitation

NADP Total N - inorganic nitrogen (ammonium plus nitrate) deposited by precipitation

Visibility IMPROVE information represents 5-yr average of annual values from 1995-1999

bextClear - measure of light scattering and absorption, i.e., extinction, by particles in the air on an average clear day

bextHazy - measure of light scattering and absorption, i.e., extinction, by particles in the air on an average hazy day