

2.2.3 Data Used For Model Evaluation and the Transfer Matrices

When the agreed upon sulfur dioxide emissions inventory is displayed on a grid basis (see Figure 2.2) the clustering of the high emission areas, along the Ohio River and elsewhere in the U.S., is readily apparent as are the high emission areas in Canada.

Figure 2.2 shows both the 1978 and the 1980 gridded values for sulfur dioxide. The 1978 distribution was used for model evaluation purposes and the 1980 distribution was used to produce the transfer matrices.

2.2.4 Uncertainty and Aggregation

Work Group 3B has provided estimates of uncertainty in the 1980 U.S. and Canadian emissions in their final report and feels that these estimates should apply reasonably well to the 1978 sulfur dioxide emissions.

The participating modelers agreed to group the 40 source regions used in the transfer matrix into 11 aggregated regions to facilitate analysis of the modeling results. Table 2.5 lists the 11 aggregated areas which are shown on Figure 2.3 with the location of the selected sensitive areas.