

2.2.2 United States

The U.S. sulfur dioxide emissions inventory representative of 1978, given for each eastern state as total emissions for the utility and non-utility sectors, was developed by contractors to EPA; utilities by E.H. Pechan and Associates based on 1978 fuel consumption, plant flue gas desulfurization equipment and other fuel data (for example, fuel sulfur content and ash sulfur retention); and non-utilities by the Mitre Corporation. Although the non-utility emission estimates are not specifically for 1978, the U.S. part of Work Group 3B has recommended their use in the absence of better information. Table 2.3 lists the sulfur dioxide emission totals for the 25 U.S. source regions used. This table also summarizes emissions by state. The U.S. source regions are numbered 50 through 74 (see Figure 2.1).

A disaggregation of the emissions for the eastern U.S. was prepared by the Modeling Subgroup. The power plants, identified by Pechan and Associates as among the 200 largest utility emitters for 1978, were located by the latitude and longitude. The remaining utility emissions for the states were distributed as state-wide percentage changes in the 1979 emissions of plants not included in the top 200 emitters for 1978. The 1979 utility emissions estimates and plant locations were supplied by the Ontario Ministry of the Environment. These emissions were calculated in a manner similar to that used by Pechan and Associates for 1978 calculations.