

The most detailed and reliable deposition observations are for the wet component. The results presented in Chapter 6 for the estimated wet deposition rate at the sensitive sites are compared in Table 5.3 with the predictions of the models obtained from Appendix 8, Table A8-9, and from the U.S. model outputs.

For many of the sensitive areas, the predictions of the two Canadian models agree with the observations reasonably well, with the AES model tending to overpredict and the MOE model tending to underpredict.

We recognize the importance of advising the reader about the confidence with which one can make use of the transfer matrices in this chapter and Appendix 8. These matrices have not yet been thoroughly verified or intercompared, so that it is difficult to assign a quantitative measure of uncertainty to the matrix elements. The differences among model estimates for individual matrix elements are perhaps the best indication of the uncertainty in these values at the present time. On the whole, the matrix elements representing transport between major source areas and those receptor areas within reasonable transport range of the source areas are in relatively good agreement across the models. Where obvious differences exist, efforts have been initiated to determine the cause for disagreement. These efforts are expected to help us understand the reasons for most of the major differences before the end of Phase II.