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## A Prescribed Fire Emission Factors Database for Land Management and Air Quality Applications

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Prescribed fire is a significant emissions source in the U.S. and that needs to be adequately characterized in atmospheric transport/chemistry models. In addition, the Clean Air Act, its amendments, and air quality regulations require that prescribed fire managers estimate the quantity of emissions that a prescribed fire will produce. Several published papers contain a few emission factors for prescribed fire and additional results are found in unpublished documents whose quality has to be assessed. In conjunction with three research projects developing detailed new emissions data and meteorological tools to assist prescribed fire managers, the Strategic Environmental Research and Development Program (SERDP) is supporting development of a database that contains emissions information related to prescribed burning. Ultimately, this database will be available on the Internet and will contain older emissions information that has been assessed and newer emissions information that has been developed from both laboratory-scale and field measurements. The database currently contains emissions information from over 300 burns of different wildland vegetation types, including grasslands, shrublands, woodlands, forests, and tundra over much of North America. A summary of the compiled data will be presented, along with suggestions for additional categories.

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