

Chapter 6  
Air Quality Surveillance: Particulate Matter (PM<sub>10</sub>)  
Section 6.11

The State of North Dakota operated a network of 14 inhalable particulate (PM<sub>10</sub>) monitors across the State beginning in April 1985. Five sites (11 monitors) operated on an every other day sampling schedule. The other three monitors operated every sixth day (see Table 1 and Map 1). No exceedances of the promulgated PM<sub>10</sub> standards have been measured during the entire monitoring period. On the basis of these observations, the entire State of North Dakota was designated as a Group III area for PM<sub>10</sub> attainment. In August 1987 at EPA Region VIII's direction, we gave up 7 of our PM<sub>10</sub> monitors to the State of Montana. In September 1988, one additional PM<sub>10</sub> monitor was sent to Montana. We are now operating 6 PM<sub>10</sub> monitors at 6 locations throughout the State on an every sixth day sampling schedule (see Table 2 and Map 2). This monitoring network and schedule is adequate to measure and assure the maintenance of the inhalable particulate standard. Consideration will be given to establish a PM<sub>10</sub> monitor site at either Grand Forks, Minot, or Dickinson to supplement the PM<sub>10</sub> data collected at 3 other major cities in the state, namely Fargo, Bismarck, and Williston.

TABLE 1  
PM<sub>10</sub> SITES

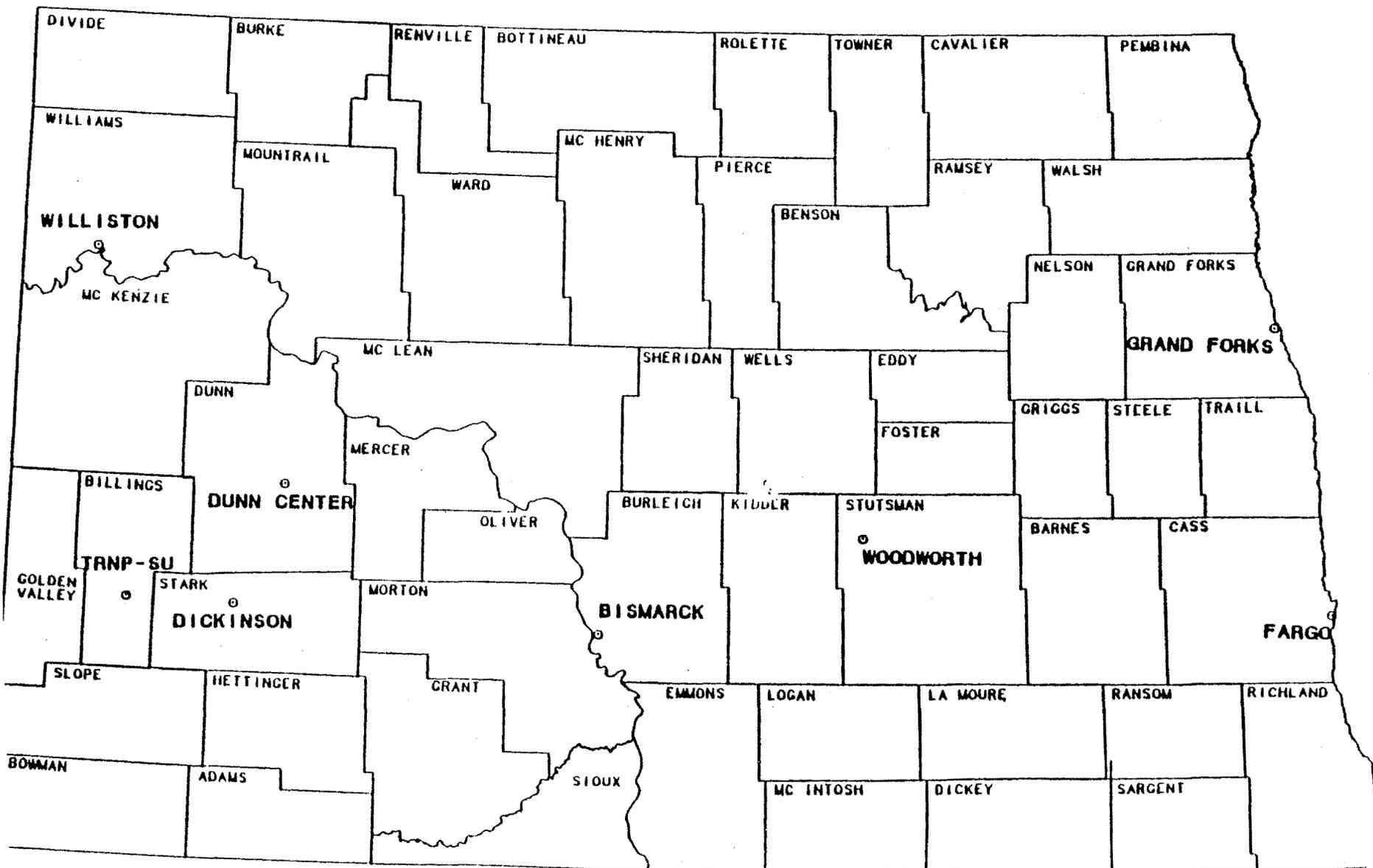
<u>Name</u>	<u>No. of Samplers</u>	<u>Operational Date</u>
Bismarck <sup>1/</sup>	3*	April 1, 1985
Dickinson <sup>1/</sup>	2	April 5, 1985
Dunn Center <sup>2/</sup>	1	April 7, 1985
Fargo <sup>1/</sup>	2	August 27, 1985
Grand Forks <sup>1/</sup>	2	July 2, 1985
Williston <sup>1/</sup>	2	June 14, 1985
Woodworth <sup>2/</sup>	1	June 18, 1985
TRNP-SU <sup>2/</sup>	1	October 22, 1986

\*One of these is collocated.

1/ This site was selected on the basis of estimated exceedance probabilities greater than or equal to 0.20 and less than 0.95 for a prospective PM<sub>10</sub> average annual arithmetic mean standard of 50 µg/m<sup>3</sup> and a 24-hour standard of 150 µg/m<sup>3</sup>. Sampling is conducted every other day.

2/ This site was selected as a background site on the basis of an estimated exceedance probability less than 0.20 for a prospective PM<sub>10</sub> average annual arithmetic mean standard of 50 µg/m<sup>3</sup> and a 24-hour standard of 150 µg/m<sup>3</sup>. Sampling is conducted every sixth day.

# PM10 MONITORING SITES



MAP 1

TABLE 2  
PM<sub>10</sub> SITES

<u>Name</u>	<u>No. of Samplers</u>	<u>Operational Date</u>
Bismarck	1	April 1, 1985
Fargo	2*	August 27, 1985
Lostwood	1	January 7, 1987
TRNP-SU	1	October 22, 1986
Williston	1	June 14, 1985

\*These are collocated.

# PM10 MONITORING SITES

