

It was also noted in these experiments that the conductivity of the air in the cylinder was less for corresponding barometric pressures when the ground was frozen and covered with snow than when the temperature was above freezing point and the ground bare. This is shewn in Table IX which contains the mean readings for observations taken under similar barometric conditions both with and without snow on the ground.

TABLE III

Time Nov. 25th, 1908	Temp.	No. of ions per c.c. per sec.
8.00 p.m.	20 °C	16.4
8.10 "	15.9
8.20 "	15.7
8.30 "	15.4
8.40 "	20.5°C	15.9
8.50 "	16.2
9.00 "	15.6
9.10 "	15.9
9.40 "	15.9
9.50 "	16.0
10.00 "	15.7
10.10 "	16.3
10.20 "	15.7
10.30 "	20.2°C	16.4
10.50 "	16.2
11.30 "	16.2
11.50 "	15.9
12.10 "	15.9

Mean 15.95.

Extreme Deviation 3%.