

## 2. Cold tolerance in maize inbreds.

During the summer of 1952 some exploratory work was undertaken to determine the ability of certain inbred lines to germinate under controlled low temperature ( $10^{\circ}\text{C} \pm 1^{\circ}$ ). The experiments were carried out in deep freeze units with each kernel in a separate aseptic culture tube on an agar medium of mineral salts. Germination counts were taken daily for more than thirty days. Results may be summarized as follows:

<u>Inbred</u>	<u>% Germination @ <math>10^{\circ}\text{C}</math>.</u>
Wisc. W23	96.7
Minn. A152	75.0
Ill. A	10.0
Mo. G	7.5

It is interesting to note that while the inbred Mo. G showed the lowest germination at  $10^{\circ}\text{C}$ ., once the cultures were exposed to room temperatures almost perfect germination was recorded. This occurred after the inbred had been held at  $10^{\circ}\text{C}$ . for as long as two months.

R. Rabson