

SECTION 683.2 DAILY WATER REQUIREMENTS

The following curves show the net daily consumptive use of different crops at different locations in Nebraska. They were derived by the procedure outlined in SCS-MNTC Technical Note - Eng LI-46.

It should be noted that these rates are for average conditions which can vary from day to day. Temperature, wind, and humidity will cause variation in the crops needs. In many cases, the variation in the net daily need will average out for the days between irrigation. The longer the time period is between irrigations, the more likely it will be that this averaging will occur.

The rates that are shown indicate net daily consumptive rates to raise a maximum crop. Near maximum yields can be obtained with less water if water is available during the critical growth periods of some crops. Table 682-3 gives a brief description of when the critical growth periods occur. More information on the growth of crops is contained in Section 682, Crops.

When the curves are used to estimate irrigation that is needed, remember the figures are for net consumption; and it is necessary to know the efficiency of application to determine the gross amount of water needed.

The dates shown at the bottom of the figures are average dates and won't be correct for all situations. The dates should be ignored once irrigation begins. The important thing to know is what the stage of growth is and what it will be during the period that an irrigation will be depleted. An example of this is given in Section 686, Irrigation Water Management.