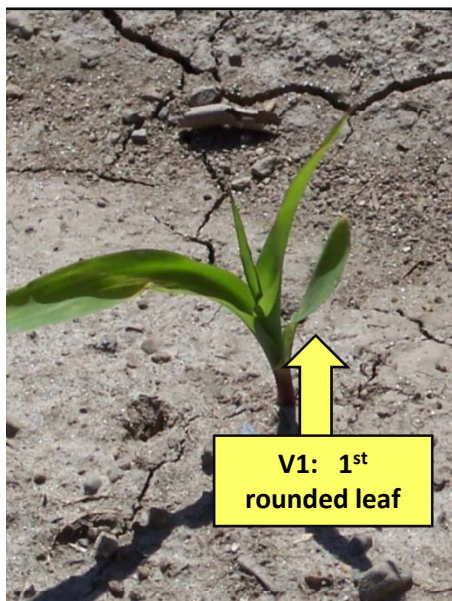
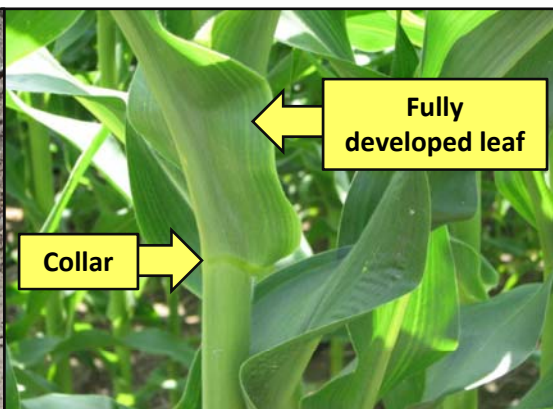


Corn and Soybean Tissue Sampling



The starting point for corn growth staging is the 1st round-shaped leaf, count each leaf with a collar from there.



Fully developed leaf: The first part of the collar that is visible is the back which appears as a discolored line between the leaf blade and leaf sheath.

Seedling corn: 25 plants
Vegetative Stages: Upper most fully developed (with collar) leaf of 15-20 plants.
Reproductive Stages: 15 – 20 leaves below and opposite the ear.



Increasing stalk size and brace root development cause the smallest leaves to tear and/or decompose. The leaf coming from the 1st set of brace roots is the V5 growth stage.



NOT fully developed leaves: Usually have a shiny appearance and wrinkled edges. Tissue is also softer or tender to touch and break off.



Fully developed leaves have a deep green color and usually lay flat and have a thicker stem.



Sampling Hint:
 To avoid injuring the growing point or flowers when removing the trifoliate, hold the top of the plant with one hand and pull the trifoliate downward until it snaps off.

Soybean: Collect the upper most fully developed trifoliate from 20-25 plants.
Staging note: Two categories - vegetative and reproductive.