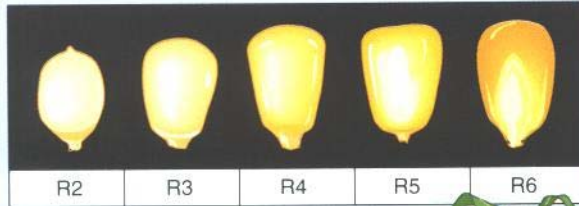
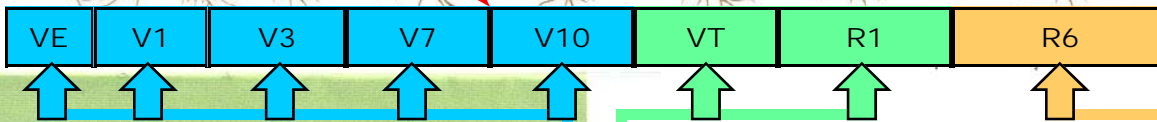
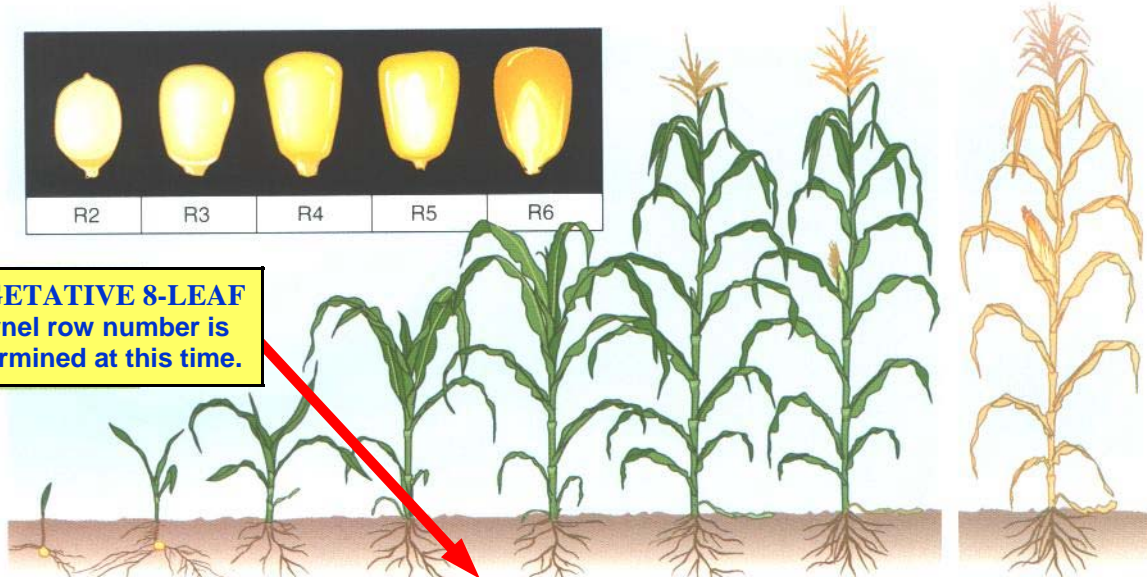


GROWTH CHART FOR CORN



VEGETATIVE 8-LEAF
Kernel row number is determined at this time.



Growth Stages of Corn

- VE Emergence:** coleoptile emerges at root surface, seminal root growth begins to slow, nodal roots initiated at crown
- V1 First leaf collar:** lowermost leaf (short with rounded tip) with visible leaf collar, nodal roots begin elongation
- V3 3 leaf collars:** lowermost three leaves with visible leaf collars, two complete nodal sets visible near crown of plant, root hairs developing on nodal roots, seminal root growth ceases
- V5 5 leaf collars:** uppermost ear and tassel initiated, kernel row number determination begins soon after, growing point nears soil surface as stalk internode elongation begins
- V6 6 leaf collars:** tassel/growing point above soil surface, plants increasingly vulnerable to above-ground damage, some herbicide injuries may be evident, nutrient deficiencies appearing, ear shoot initiation

- V7/V8 7/8 leaf collars:** senescence of lower leaves may occur if plant is stressed but must still be counted when staging plants, rapid growth phase begins, kernel row determination begins
- V9/V10 9/10 leaf collars:** many ear shoots easily visible when stalk is dissected, rapid stalk growth
- V12 12 leaf collars:** important stage in ear growth because number of kernels per row and total number of potential kernels is mostly determined; moisture and nutrient availability increasingly important
- V15 15 leaf collars:** tips of ear shoots may emerge, silks continuing to elongate, brace root formation very evident
- VT Tasseling:** tassel emerges from whorl, pollen shed (anthesis) begins shortly, few if any silks emerged from husk; plants at VT/R1 most vulnerable to drought stress and leaf loss

HARVESTING

EMERGENCE & VEGETATIVE
The corn plant experiences all of its growth at these stages and can withstand some soil moisture stress without affecting yield.

TASSELING & REPRODUCTIVE
Must not stress corn at these stages.