

# Growing Corn

Name: \_\_\_\_\_

Use the link below to learn about Corn Growth and Development.  
<https://www.bookstore.ksre.ksu.edu/pubs/MF3305.pdf>

Write the correct growth stage next to the descriptions below.

## Vegetative Growth

- \_\_\_\_\_ Emergence occurs when the first leaves, called the spike or the coleoptile, appear above the soil surface.
- \_\_\_\_\_ Last branch of the tassel is visible at the top of the plant.
- \_\_\_\_\_ One leaf with collar visible (structure found at the base of the leaf).
- \_\_\_\_\_ Brace roots begin to develop in the lower above-ground nodes of the plants.
- \_\_\_\_\_ Nodal roots are dominant, occupying more soil volume than seminal roots.
- \_\_\_\_\_ This stage occurs approximately two weeks before flowering.
- \_\_\_\_\_ Six leaves with collar visible.
- \_\_\_\_\_ Nodal roots begin to emerge below ground.

## Reproductive Growth

- \_\_\_\_\_ Pollen falls from the tassel to the silks, fertilizing the ovule to produce an embryo.
- \_\_\_\_\_ A black layer forms at the base of the kernel, blocking movement of dry matter and nutrients from the plant to the kernel.
- \_\_\_\_\_ Kernels are yellow, and a milk-like fluid can be squeezed out of the kernels when crushed between fingers.
- \_\_\_\_\_ Starchy material within the kernels has dough-like consistency.
- \_\_\_\_\_ Kernels are white and blister-like in shape and contain a clear fluid.
- \_\_\_\_\_ Most of the kernels are dented.

Give one example of management for corn at the following stages:

V1

V10

V14

R1

R4

R6

# Growing Corn

Write the correct name of vegetative stage next to each picture.

21.



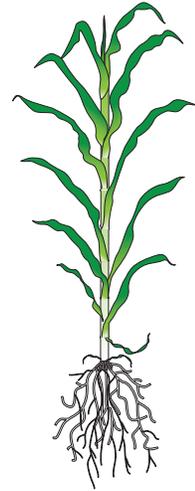
25.



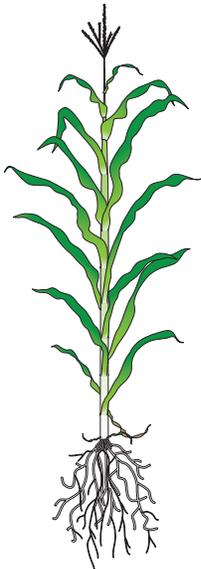
22.



26.



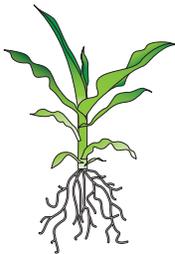
23.



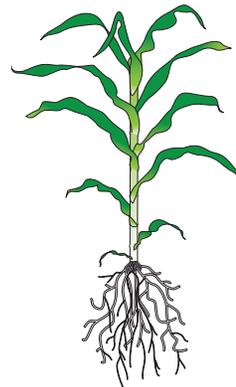
27.



24.



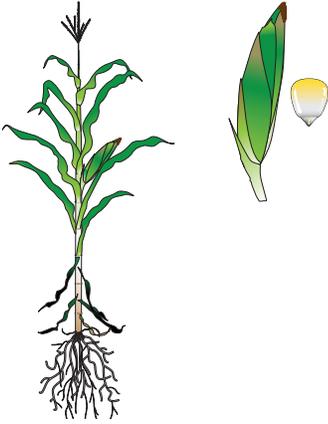
28.



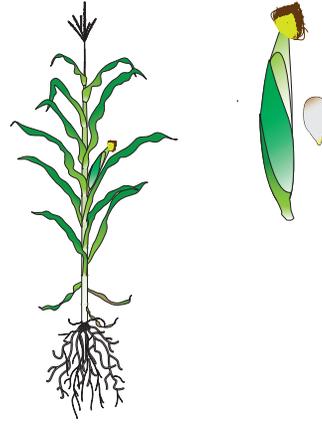
# Growing Corn

Write the correct name of reproductive stage next to each picture.

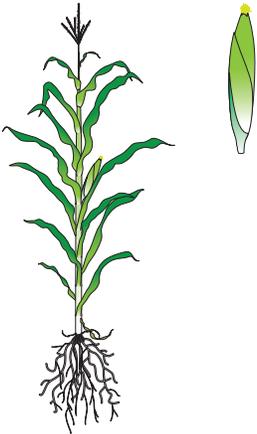
29.



32.



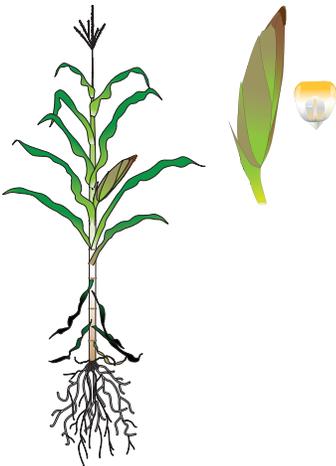
30.



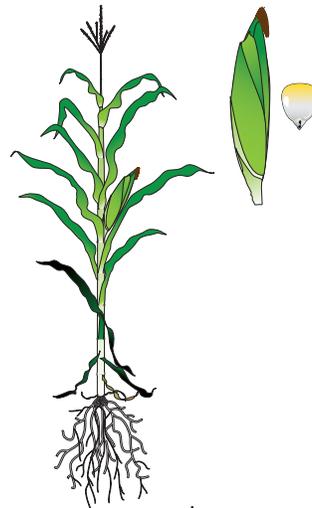
33.



31.



34.



35. In your own words, describe how understanding corn growth stages can help producers raise their crop.

# Growing Corn

Use the link below to learn about Corn Growth and Development.  
<https://www.bookstore.ksre.ksu.edu/pubs/MF3305.pdf>

Write the correct growth stage next to the descriptions below.

## Vegetative Growth

- VE Emergence occurs when the first leaves, called the spike or the coleoptile, appear above the soil surface.
- VT Last branch of the tassel is visible at the top of the plant.
- V1 One leaf with collar visible (structure found at the base of the leaf).
- V10 Brace roots begin to develop in the lower above-ground nodes of the plants.
- V4 Nodal roots are dominant, occupying more soil volume than seminal roots.
- V14 This stage occurs approximately two weeks before flowering.
- V6 Six leaves with collar visible.
- V2 Nodal roots begin to emerge below ground.

## Reproductive Growth

- R1 Pollen falls from the tassel to the silks, fertilizing the ovule to produce an embryo.
- R6 A black layer forms at the base of the kernel, blocking movement of dry matter and nutrients from the plant to the kernel.
- R3 Kernels are yellow, and a milk-like fluid can be squeezed out of the kernels when crushed between fingers.
- R4 Starchy material within the kernels has dough-like consistency.
- R2 Kernels are white and blister-like in shape and contain a clear fluid.
- R5 Most of the kernels are dented.

Give one example of management for corn at the following stages:

- V1 Scout for proper emergence
- V10 Weed control
- V14 Scout for root lodging issues
- R1 Water demands are at peak
- R4 Impact of frost on grain quality can be severe
- R6 Grain is not ready for safe storage

# Growing Corn

Write the correct name of vegetative stage next to each picture.

21. V2



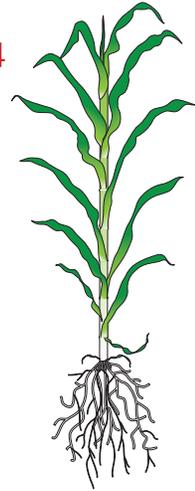
25. V4



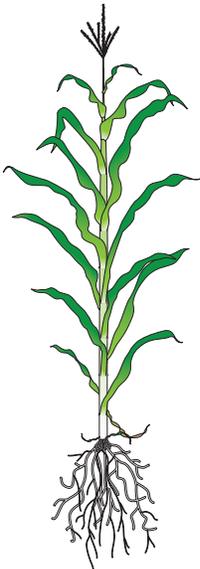
22. V1



26. V14



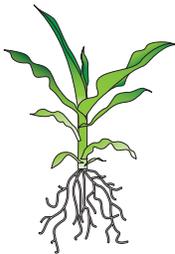
23. VT



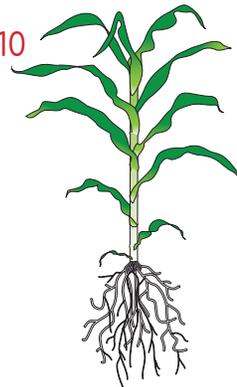
27. VE



24. V6



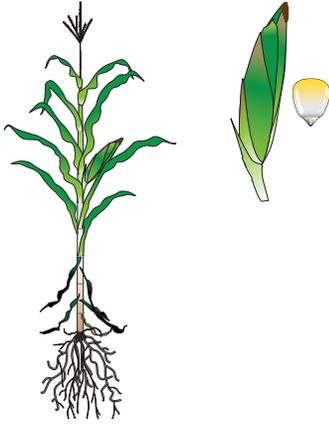
28. V10



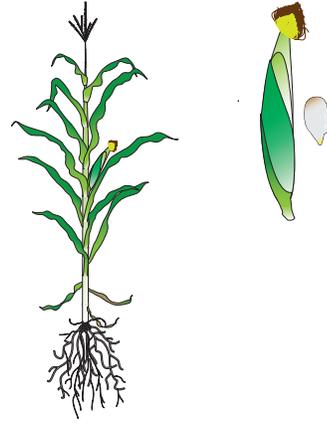
# Growing Corn

Write the correct name of reproductive stage next to each picture.

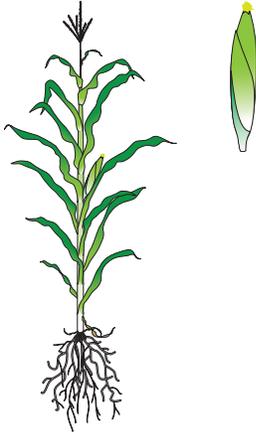
29. R4



32. R2



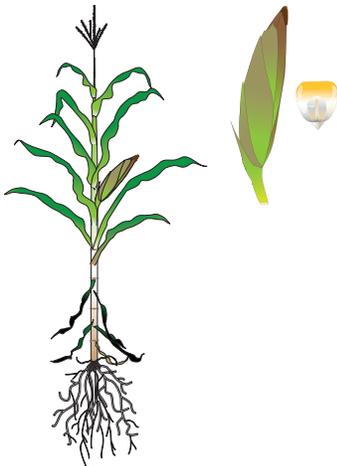
30. R1



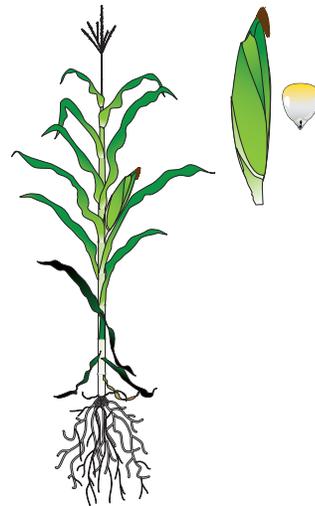
33. R6



31. R5



34. R3



35. In your own words, describe how understanding corn growth stages can help producers raise their crop.