



## What to Expect When Corn Reaches V10-R6

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We are now entering the part of summer when growers start to notice changes in their rapidly growing corn fields. With this year's spring pattern, not all corn is at the V10 stage, but the majority of corn that Ag Partners Agronomists have been scouting, is between V10 and V14. When corn is at the V10 stage, it is during this time you can determine the number of kernels on each plant and the ear size. The brace roots will begin to develop and the tassels will start to rapidly grow. The plants typically require .25" of moisture per day and it has a high demand for phosphorus, nitrogen and potash. The less stress the plant has the better maximization you will get in your yield.

Stages V10 to V14 can happen within 8-12 days. In between the V10 and V14 stages, it is important to scout for common rust and physoderma brown spot. During this time, it is also crucial to make sure that your brace roots are developing correctly. Growers want the best yield in their crop, and studies show that in order to get 230-bushel corn, the plant requires 7.8 pounds of nitrogen, 2.1 pounds of phosphorus and 5.4 pounds of potash per day between the stages of V10 and V14.

During V14 stage you will continue to see rapid growth, and you are typically within two weeks from flowering. It is vital to continue scouting for corn earworm, Japanese beetles, rust, physoderma brown leaf spot, gray leaf spot and northern corn leaf blight. It is important to know that the maximum nutrient uptake is typically two weeks prior to VT stage.

On average it takes between 10-15 days to get from V10 to V14. Once your crop gets to the VT stage the kernel per row is set and the final number of ovules (kernels) is set. Your plant needs .30" of moisture per day and you will still need to be monitoring for insects and disease. This is also when you will want to start applying VT fungicide.

When considering a fungicide, Ag Partners recommends Trivapro® to safeguard your investment and help protect your yield potential. Trivapro is the best in its class for delivering long-lasting, preventive and curative disease control and provides crop enhancement benefits late into the growing season. There is also a potential that you will need to apply insecticide with fungicide. Contact your Ag Partners Agronomists for guidance.

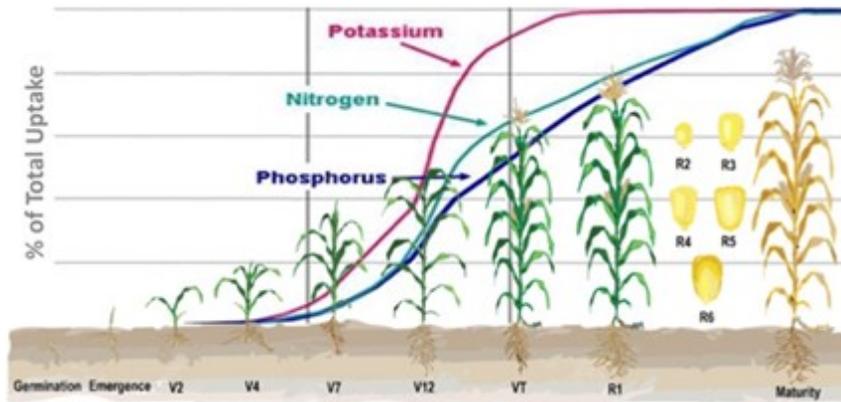
After VT comes R1 stage where your plants begin silking and flowering. The nitrogen uptake is still at a high rate and the potash accumulation is almost complete. The plant wants .33" of moisture per day.

Then approximately 12 days after R1 comes R2. In this stage the silks start to darken and your grain fill begins and the kernels are typically at 85 percent moisture. Typically, 20 days later you will begin the R3 milk stage. In this stage the silks start to dry out and the kernels start to turn yellow.

At R4 (dough stage) you are now 26-30 days from R1, and the kernels are at 70 percent moisture and they start to dent. In days 38-42 after R1 then comes the R5 (dent stage) the kernels are at

55 percent moisture and silage harvest is approaching. The final stage of corn develop is R6, which takes place between 50-60 days from R1. This is typically called "relative maturity," and is also known as the black layer (physiological maturity) and the kernels are at the max dry matter.

When working with us, our team is committed to helping you succeed and achieve your goals on-farm and in the marketplace. Throughout the growing season, your Ag Partners agronomist is available to answer any questions or provide guidance on your operation.



## Winter Propane Contracts



Return your signed contract by July 31, 2019 to lock in pricing.

Propane contracts were mailed out last week. If you haven't received one and should have, please contact us. Signed contracts should be returned by July 31, 2019 to lock in pricing

## Happy 4th of July!

Ag Partners locations will be closed Thursday, July 4th in observance of Independence Day.

Office and location closures are subject to customer demand and weather cooperation.

