



Fertilizer Methods of Application Comparison

Experiment Info:

Planted:
Harvest:
Yield Goal:
Target Fert.:
Variety:
Population:
Row Width:
Prev. Crop:
Plot Size:
Replications:

Objective:

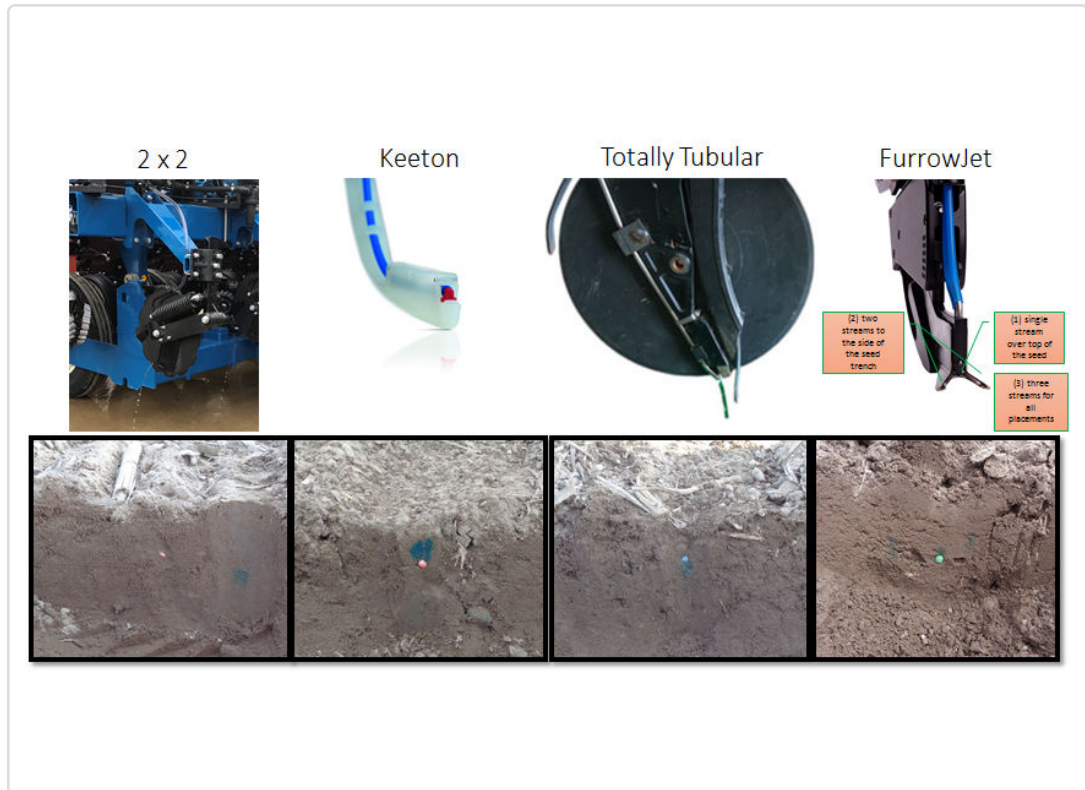
To observe the placement differences using blue dye between different planter attachments used for applying planter fertilizer.

There are many different attachments available from a variety of manufactures to place liquid fertilizer on or near the seed. Each of these attachments have their advantages and disadvantages. Regardless of the attachment being used, it is important that they be properly adjusted and maintained in good shape.

Blue dye was used in these observations to see the location of fertilizer placement in a sandy loam soil. Equipment used for this observation is pictured below. The Kinze 2x2 disc injection unit is set to place nutrients 2" below and 2" to the side of the seed placement. The Keeton seed firmer using a stream splitter is set to place nutrients to the sides of the seed furrow and above the seed. The Totally Tubular attachment places nutrients in the bottom of the seed furrow and under the seed. The FurrowJet attachment has 3 exit points and can be used as over the see and in-furrow only, injected into each side of the seed furrow trench above the seed placement or a combination of the two.

Soil Test Values (ppm):

pH:
CEC:
%OM:
Bray P1:
Bicarb P:
K:
S:
%K:
%Mg:
%Ca:
%H:
Zn:
Mn:
B:



Conclusions:

- Dye comparisons show the placement area where nutrients would be applied and can be used to help understand how the nutrients can affect root growth, nutrient uptake and yield.