SOYBEAN (*GLYCINE MAX*) GROWTH AND POD DISTRIBUTION IN RESPONSE TO EARLY SEASON APPLICATION OF RYZUP SMARTGRASS®

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Various aspects of soybean (*Glycine max*) growth were documented in response to RyzUp SmartGrass® applied at unifoliate leaf (0.3, 0.5 oz./acre), first trifoliate leaf, or both (0.3 + 0.3 oz./acre). All RyzUp SmartGrass® treatments resulted in highly visible and significantly taller plant heights by 4 days post treatment due to longer internode lengths, with internode differences still evident at harvest. While significantly increasing height of first trifoliate leaf node above the soil surface to increase harvest efficacy, sequential applications of RyzUp SmartGrass® also resulted in a significantly more pods/plant (11.8%) at harvest, with increased numbers of pods documented on lower plant nodes. Yield increase for the sequential application was calculated to be 3-5 bushels/acre.