

Comparison of Herbicides for the Establishment of Warm Season Grasses. (C03-salon155339-Poster)

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Abstract:

Weed control is one of the biggest challenges in establishing native warm season grasses. This study compares the effects of Plateau both (pre) and (post) emergence with Accent, Basis, 2,4-D, Banvel, Bicep Magnum Lite II (Pre) and mowing on the establishment of switchgrass, eastern gamagrass, big bluestem, indiangrass and little bluestem. The grasses were planted at Corning, NY on 6/13/01 in a conventionally prepared seed bed. The Plateau (pre) treatment had the best weed control and allowed for the adequate establishment of eastern gamagrass, but reduced biomass 41% compared to the Bicep treatment. The other warm season grasses established extremely well with no biomass reduction except for switchgrass which did not emerge. The Plateau (post) treatment killed the switchgrass and the eastern gamagrass but had good stands of the other grasses. The Accent and Basis herbicides reduced the vigor of most of the grasses except for little bluestem. The biomass averaged for the Accent and Basis treatments at the end of the establishment year for the gamagrass, switchgrass, big bluestem and indiangrass was reduced by 40, 43, 56 and 91% respectively from the best herbicide for that species.

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