Behavior of Imazaquin and Flazasulfuron in Brazilian soils. (S11-oliveira190958-Poster)

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Abstract:

There is little information available on the behavior of herbicides in tropical soils. Retention of the herbicides flazasulfuron and imazaquin was measured in several Brazilian soils using batch sorption and desorption equilibration techniques. Hydrolysis of flazasulfuron was also evaluated in 0.01 M calcium chloride as a function of pH and temperature. Sorption coefficients for flazasulfuron correlate well with organic carbon, silt and cation exchange capacity. For imazaquin, sorption coefficients correlate well to clay and pH. For both herbicides, adsorption was reduced at high pH values. Flazasulfruon hydrolysis increased with decreasing pH and increasing temperature.

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