Special Issue

Innovative Crop Model Development and Applications in Agro-Meteorology

Message from the Guest Editors

Process-based crop models have traditionally been developed and applied to annual grain crops. They contain soil description, a water balance to simulate drought and flooding, and nutrient balance subroutines to simulate nutrient demand and stress. With all of these normal components affecting plant growth, a natural extension has been the application of these models to other plant systems. These have included forests, bioenergy plant systems, grassland systems, wetland systems, and even vegetable crop production. This Special Issue will be dedicated to summarizing recent applications of crop models to these other plant systems. It will also include papers describing recent improvements in some commonly used crop models as they simulate annual cropping systems.

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Deadline for manuscript submissions

closed (25 November 2020)

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/32422

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