Simulation of Irrigation Water Requirements of Some Crops in Trinidad Using the CROPWAT Irrigation Software

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Abstract: The Crop Water Requirements (CROPWAT) computer software package was used to design irrigation schedules during the dry season (February to May) for twelve (12) major farming locations in Trinidad. The irrigation schedules are for the nine major crops grown in different predominant soils in the selected locations. Crop and field parameters were obtained from published texts whereas the climatological data were obtained from the Water Resources Agency in Trinidad. The irrigation schedules using CROPWAT were planned in such a way that for the convenience of the farmer, the irrigation depth and irrigation interval were kept constant throughout the growing season for each crop and this value depended on the climatological situation or the water consumption pattern of the crops.

Keywords: Irrigation, Scheduling, Crop, Soil, Trinidad