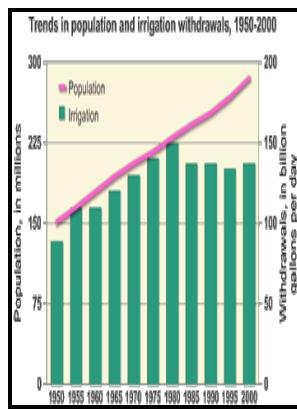


Water requirement and irrigation management of crops in India.

Water Technology Centre, Indian Agricultural Research Institute - Hydroponics

Description: -



- Encyclopedias and dictionaries.
 - Encyclopedias and dictionaries.
 - Israel-Arab War, 1967.
 - Mental arithmetic.
 - Bermuda Triangle.
 - Unidentified flying objects.
 - Denmark -- Social conditions.
 - Denmark -- Statistics, Vital -- History -- 17th century.
 - Denmark -- Population -- History -- 17th century.
 - Church records and registers -- Denmark -- History -- 17th century.
 - Musical form
 - Crops -- Water requirements -- India.
 - Irrigation farming -- India. Water requirement and irrigation management of crops in India.
 - I.A.R.I. monograph ; new ser., no. 4 Water requirement and irrigation management of crops in India.
- Notes: Includes bibliographical references and index.
This edition was published in 1977



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#intelligence #in #agriculture #for #optimisation #of #irrigation #and #application #of #pesticides #and #herbicides

Implementation of artificial intelligence in agriculture for optimisation of irrigation and application of pesticides and herbicides

This fact may reveal the limitations of soil-water balance and lysimetry-based methods to estimate soil evaporation with accuracy. Nevertheless, generally acceptable concentrations for nutrient solutions exist, with minimum and maximum concentration ranges for most plants being somewhat similar.

Implementation of artificial intelligence in agriculture for optimisation of irrigation and application of pesticides and herbicides

For irrigated crops, the concept of CWR has to be complemented by that of irrigation water requirement IWR , which is the net depth of water millimeters that is required to be applied to a crop to satisfy fully its specific crop water requirement. The method requires no substrate and entails growing plants with their roots suspended in a deep air or growth chamber with the roots periodically wetted with a fine mist of. For example, at the end of an's , a plant should be restricted from high nitrogen fertilizers.

Crop Water Requirement

This methodology is ideal for woody crops, as it is heavily influenced by local microclimate, the soil type, and the phenological stage, which allow the calculation of specific K_c for each of the different situations considered and therefore indicate the crop water needs during their development cycle. Therein, for the first time, he published his basic formula involving the macro- and micronutrient salts for hydroponically-grown plants. In a commercial setting, watering frequency is multi-factorial and governed by computers or.

Hydroponics

Above 65%, the ET_c 100% of mature trees is assumed. Once the roots have reached the reservoir below, there is not a huge advantage with top-fed deep water culture over standard deep water culture.

Implementation of artificial intelligence in agriculture for optimisation of irrigation and application of pesticides and herbicides

When taking the use of domestic water resources as a starting point for calculating a nation's water footprint, one should subtract the virtual water flows that leave the country and add the virtual water flows that enter the country. Another goal is to find sustainable sources for the raw materials it uses in its drinks, such as , , and. In a study comparing wool with peat slabs, coconut fibre slabs, perlite and rockwool slabs to grow cucumber plants, sheep wool had a greater air capacity of 70%, which decreased with use to a comparable 43%, and water capacity that increased from 23% to 44% with use.

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