

Model Sprinkler Irrigation Based On Gravity

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Submission date: 04-Jun-2020 10:55AM (UTC+0700)

Submission ID: 1337457836

File name: Model_Sprinkler_Irrigation_Based_On_Gravity.docx (14.14K)

Word count: 221

Character count: 1288

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Sprinkler irrigation systems is one technology that can improve the efficiency and effectiveness of the water use. To help solve the problem of food security and increased agricultural land conversion in Indonesia, the need for technological innovations that are environmentally friendly. Sprinkler irrigation applications are still little known by the public, although this system has a high irrigation efficiency. This study aims to introduce new innovations on irrigation sprinklers that can be applied to the micro Agropolitan agriculture-based on gravity in Indonesia. The method used is a laboratory test. Sprinkler design has a groove in which water flows from the reservoir water is then routed through a flexible hose to the pipe. Position higher than the sprinkler water, so the water will hit the sprinkler head and spray water. Position sprinklers can be changed according to the treatment in laboratory tests. The distribution pattern is the result of a combination of water pressure and sprinkler head. From the test results showed that the potential energy (pressure) enters the fluid and its flow capacity does not change the pattern of flow distribution sprinkle

Keywords: Water, Irrigation, Sprinkler, gravity.

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