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[AGRIVITA] Journal Registration

1 message

AGRIVITA <agrivita@ub.ac.id>

Mon, Jan 4, 2021 at 12:06 PM

To: "Aminah Aminah, Mrs" <aminah.muchdar@umi.ac.id>

Aminah Aminah, Mrs

You have now been registered as a user with AGRIVITA, Journal of Agricultural Science. We have included your username and password in this email, which are needed for all work with this journal through its website. At any point, you can ask to be removed from the journal's list of users by contacting me.

Username: aminahmuch1969

Password: Amin@h2017

Thank you,
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E-mail :
agrivita@ub.ac.id
agrivitafaperta@yahoo.com
website <http://www.agrivita.ub.ac.id>

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Submission

Authors	Aminah Aminah, Fadry Djufry, Abdul Wahid Rauf, Saida Saida, Marlana S. Palad, Salim Salim
Title	Effectiveness of Irrigation Methods and Time of Providing Water in Maintaining Soil Classification for Increasing Soybean Production
Section	Articles
Editor	Agrivita UB Syahrul Kurniawan Moch. Maghfoer

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ID	13358
Date	March 25, 2021 - 09:02 PM
Sender	Aminah Aminah
From	AGRIVITA <agrivita@ub.ac.id>
To	"Aminah Aminah, Mrs " <aminah.muchdar@umi.ac.id>
CC	
BCC	agrivita@ub.ac.id, agrivita@ub.ac.id
Subject	[AGRIVITA] Submission Acknowledgement
Body	Aminah Aminah, Mrs : Thank you for submitting the manuscript, "Effectiveness Of Irrigation Methods And Time Of Providing Water In Maintaining Soil Classification For Increasing Soybean Production" to AGRIVITA, Journal of Agricultural Science. With the online journal management system that we are using, you will be able to track its progress through the editorial process by logging in to the journal web site: Manuscript URL: https://agrivita.ub.ac.id/index.php/agrivita/author/submission/2975 Username: aminahmuch1969 If you have any questions, please contact me. Thank you for considering this journal as a venue for your work. AGRIVITA AGRIVITA, Journal of Agricultural Science Agrivita Editorial Team

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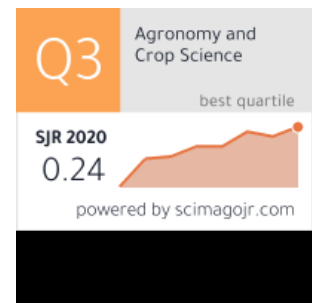
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Aminah Muchdar <aminah.muchdar@umi.ac.id>

[AGRIVITA] Submission Acknowledgement

1 message

AGRIVITA <agrivita@ub.ac.id>

Thu, Mar 25, 2021 at 2:02 PM

To: "Aminah Aminah, Mrs" <aminah.muchdar@umi.ac.id>

Aminah Aminah, Mrs :

Thank you for submitting the manuscript, "Effectiveness Of Irrigation Methods And Time Of Providing Water In Maintaining Soil Classification For Increasing Soybean Production" to AGRIVITA, Journal of Agricultural Science. With the online journal management system that we are using, you will be able to track its progress through the editorial process by logging in to the journal web site:

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Submission

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Title	Effectiveness of Irrigation Methods and Time of Providing Water in Maintaining Soil Classification for Increasing Soybean Production
Section	Articles
Editor	Agrivita UB  Syahrul Kurniawan  Moch. Maghfoer 

Email Log

ID	13490
Date	May 1, 2021 - 10:03 AM
Sender	Kuswanto Kuswanto 
From	AGRIVITA <agrivita@ub.ac.id>
To	"Syahrul Kurniawan, Dr." <syahrul.fp@ub.ac.id>
CC	agrivita@ub.ac.id
BCC	
Subject	[AGRIVITA] Editorial Assignment
Body	Syahrul Kurniawan, Dr. : The submission, "Effectiveness Of Irrigation Methods And Time Of Providing Water In Maintaining Soil Classification For Increasing Soybean Production," to AGRIVITA, Journal of Agricultural Science has been assigned to you to see through the editorial process in your role as Section Editor. Submission URL: https://agrivita.ub.ac.id/index.php/agrivita/editor/submissionReview/2975 Username: syahrulfp Thank you, Kuswanto Kuswanto, Prof. Faculty of Agriculture Universty of Brawijaya (Scopus ID: 57192702058) Phone +62-341-575743 Fax +62-341-575743 kuswantoas@ub.ac.id Agricultural Faculty Universty of Brawijaya Jl. Veteran Malang 65145 East Java Indonesia

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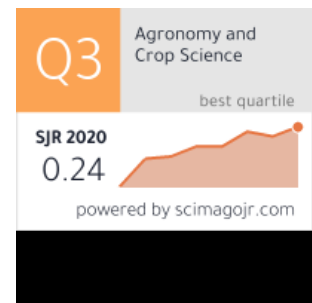
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Section	Articles
Editor	Agrivita UB  Syahrul Kurniawan  Moch. Maghfoer 

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ID	13491
Date	May 1, 2021 - 10:04 AM
Sender	Kuswanto Kuswanto 
From	AGRIVITA <agrivita@ub.ac.id>
To	"Moch. Dawam Maghfoer, Prof." <dmaghfoer@yahoo.com>
CC	agrivita@ub.ac.id
BCC	
Subject	[AGRIVITA] Editorial Assignment
Body	Moch. Dawam Maghfoer, Prof. : The submission, "Effectiveness Of Irrigation Methods And Time Of Providing Water In Maintaining Soil Classification For Increasing Soybean Production," to AGRIVITA, Journal of Agricultural Science has been assigned to you to see through the editorial process in your role as Section Editor. Submission URL: https://agrivita.ub.ac.id/index.php/agrivita/editor/submissionReview/2975 Username: dmaghfoer Thank you, Kuswanto Kuswanto, Prof. Faculty of Agriculture Universty of Brawijaya (Scopus ID: 57192702058) Phone +62-341-575743 Fax +62-341-575743 kuswantoas@ub.ac.id Agricultural Faculty Universty of Brawijaya Jl. Veteran Malang 65145 East Java Indonesia

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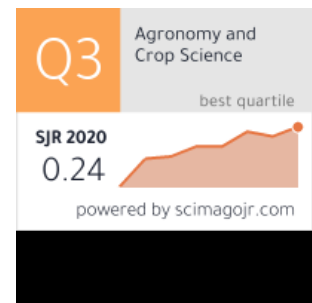
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Section	Articles
Editor	Agrivita UB  Syahrul Kurniawan  Moch. Maghfoer 

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ID	13852
Date	July 15, 2021 - 03:14 PM
Sender	Kuswanto Kuswanto 
From	AGRIVITA <agrivita@ub.ac.id>
To	"Taia Ali Abd El Mageed, Dr." <taa00@fayoum.edu.eg>
CC	agrivita@ub.ac.id
BCC	kuswantoas@ub.ac.id
Attachments	2975-For-Review.docx
Subject	[AGRIVITA] Article Review Request
Body	

Taia Ali Abd El Mageed, Dr. :

I believe that you would serve as an excellent reviewer of the manuscript, "Effectiveness Of Irrigation Methods And Time Of Providing Water In Maintaining Soil Classification For Increasing Soybean Production," which has been submitted to AGRIVITA, Journal of Agricultural Science. The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us.

Please log into the journal web site by 2021-07-22 to indicate whether you will undertake the review or not, as well as to access the submission and to record your review and recommendation. The web site is <https://agrivita.ub.ac.id/index.php/agrivita>

The review itself is due 2021-07-29.

If you do not have your username and password for the journal's web site, you can use this link to reset your password (which will then be emailed to you along with your username).
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Thank you for considering this request.

Kuswanto Kuswanto, Prof.
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Fax +62-341-575743
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"Effectiveness Of Irrigation Methods And Time Of Providing Water In Maintaining Soil Classification For Increasing Soybean Production"

Abstract

The purpose of this study was to get the best irrigation method and determine the best time effective provision of water to maintain optimum soil moisture for increase soybean crop production. This research was conducted on the field in Maros District, South Sulawesi. The experiment used a split-plot design and was repeated three times. As the main plot was an irrigation method, namely the Scatter irrigation, Furrow irrigation and Flood irrigation method and its plot was the time of irrigation, namely every 15 days of age, at the age of 15 days and at full flowering and irrigation every 10 days. The results showed that the watering technique using the waterlogging method at the time at the age of 15 days and at full flowering, had the potential to increase the yield production of soybean, that was the number of pods 164.95 pieces, the weight of seeds 37.11 g and production 4.64 ton/ha. The inundation method was more effective in maintaining soil moisture and twice the application time but in an optimal amount (229 l/time) was very effective in maintaining soil moisture.

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ID	13854
Date	July 15, 2021 - 03:20 PM
Sender	Kuswanto Kuswanto
From	AGRIVITA <agrivita@ub.ac.id>
To	"Abd El-Rahman Abd El-Raouf Ahmed, Prof. Dr. Agric. Eng." <abdo_aaaa2000@yahoo.com>
CC	agrivita@ub.ac.id
BCC	kuswantoas@ub.ac.id
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Subject	[AGRIVITA] Article Review Request
Body	Abd El-Rahman Abd El-Raouf Ahmed, Prof. Dr. Agric. Eng. : I believe that you would serve as an excellent reviewer of the manuscript, "Effectiveness Of Irrigation Methods And Time Of Providing Water In Maintaining Soil Classification For Increasing Soybean Production," which has been submitted to AGRIVITA, Journal of Agricultural Science. The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us. Please log into the journal web site by 2021-07-22 to indicate whether you will undertake the review or not, as well as to access the submission and to record your review and recommendation. The web site is https://agrivita.ub.ac.id/index.php/agrivita The review itself is due 2021-07-29. If you do not have your username and password for the journal's web site, you can use this link to reset your password (which will then be emailed to you along with your username). https://agrivita.ub.ac.id/index.php/agrivita/login/resetPassword/abdelrahmanahmed12?confirm=99693314d6811b327fea28b90a76f982dfadf141ddc65112892bc1d728d4f973%3A1626344413

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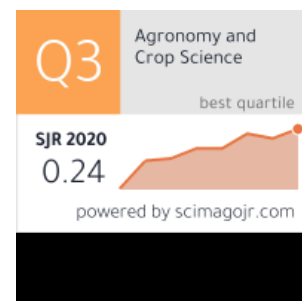
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Faculty of Agriculture University of Brawijaya (Scopus ID: 57192702058)
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Aminah Muchdar <aminah.muchdar@umi.ac.id>

[AGRIVITA] Editor Decision

1 message

AGRIVITA <agrivita@ub.ac.id>

Fri, Jul 30, 2021 at 3:34 AM

Reply-To: "Moch. Dawam Maghfoer, Prof." <dmaghfoer@yahoo.com>

To: "Aminah Aminah, Mrs" <aminah.muchdar@umi.ac.id>

Cc: Saida Saida <saida.saida@umi.ac.id>, "Marliana S.Palad" <lallypalad@yahoo.co.id>, Abdul Wahid Rauf <awrauf2010@yahoo.com>, Salim Salim <salimjo703@gmail.com>

Aminah Aminah, Mrs :

We have reached a decision regarding your submission to AGRIVITA, Journal of Agricultural Science, "Effectiveness Of Irrigation Methods And Time Of Providing Water In Maintaining Soil Classification For Increasing Soybean Production".

Our decision is to: Revisions required

- Revisions should be sent to editor before August 5, 2021

Moch. Dawam Maghfoer, Prof.

Faculty of Agriculture University of Brawijaya (Scopus ID: 55440224300)

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Subject	[AGRIVITA] Editor Decision
Body	

Aminah Aminah, Mrs :

We have reached a decision regarding your submission to AGRIVITA, Journal of Agricultural Science, "Effectiveness Of Irrigation Methods And Time Of Providing Water In Maintaining Soil Classification For Increasing Soybean Production".

Our decision is to: Revisions required
- Revisions should be sent to editor before August 5, 2021

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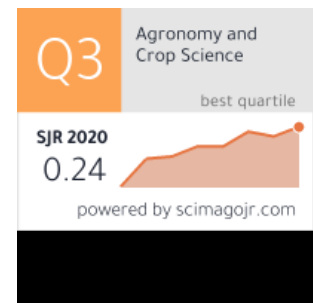
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Authors	Aminah Aminah, Fadry Djufry, Abdul Wahid Rauf, Saida Saida, Marlana S. Palad, Salim Salim 
Title	Effectiveness of Irrigation Methods and Time of Providing Water in Maintaining Soil Classification for Increasing Soybean Production
Section	Articles
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We look forward to hearing from you. Thank you.

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EFFECTIVENESS OF IRRIGATION METHODS AND TIME OF PROVIDING WATER IN MAINTAINING SOIL CLASSIFICATION FOR INCREASING SOYBEAN PRODUCTION

by 2975 Aminah

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EFFECTIVENESS OF IRRIGATION METHODS AND TIME OF PROVIDING WATER IN MAINTAINING SOIL CLASSIFICATION FOR INCREASING SOYBEAN PRODUCTION

ABSTRACT

The purpose of this study was to get the best irrigation method and determine the best time effective provision of water to maintain optimum soil moisture for increase soybean crop production. This research was conducted in the field in Maros District, South Sulawesi. The experiment used a split-plot design and was repeated three times. As the main plot was an irrigation method, namely the Scatter irrigation, Furrow irrigation and Flood irrigation method and its plot was the time of irrigation, namely every 15 days of age, at the age of 15 days and at full flowering and irrigation every 10 days. The results showed that the watering technique using the waterlogging method at the time at the age of 15 days and at full flowering, had the potential to increase the yield production of soybean, that was the number of pods 164.95 pieces, the weight of seeds 37.11 g and production 4.64 ton/ha. The inundation method was more effective in maintaining soil moisture and twice the application time, but in an optimal amount (229 l/time) was very effective in maintaining soil moisture.

Key words: flood method, furrow method, Scatter method, Soybean, time of application of water

INTRODUCTION

One way to increase soybean production is an increase in a harvested area which can be achieved by extensification to dry land areas which are very extensive in Indonesia, this can be achieved if water management in the land can be implemented optimally. Optimal plant growth and yields can be achieved if water as the most important factor in plant growth can be provided in sufficient quantities according to plant needs, so one of the solutions offered in this study is to find the right water management system to meet the water needs of soybean plants, especially for support food security. The important factors that underlie water management are the characteristics of plants to water requirements, the amount of water supplied, the method of irrigation and the characteristics of the soil in storing water. These factors are also influenced by local agro-ecological conditions such as climate, soil types and availability of irrigation water. Lack of basic information about plant water needs in tropical conditions is one of the causes of inefficient water use and inadequate irrigation management (da Silva et al., 2019).

Another thing that needs to be considered in water management is climate change which will cause many economic challenges and social issues that will be faced by water management in agriculture (Vanneuville et al., 2012) and (TerAvest et al., 2015). While some aspects of climate change such as increased rainfall can bring some local benefits, there will also be a number of adverse effects, including reduced water availability and other extreme weather conditions (Ummenhofer et al., 2017); (Arnell et al., 2011); (Gosling & Arnell, 2013) and (Mancosu et al., 2015). This is in line with (Muhumed et al., 2014) research which states that regulating the frequency of water supply and managing water availability can increase soybean productivity.

The main consequences of changing water resources for agricultural production include: (i) increased water demand in all areas due to increased evapotranspiration of crops in the face of rising temperatures; (ii) increasing water shortages, particularly in summer months, increasing water demand for irrigation (iii) decreasing water quality due to higher water temperatures and lower runoff rates in some areas (Iglesias & Garrote, 2015).

Innovative irrigation practices can increase water efficiency, gain economic benefits and also reduce environmental burdens. In some cases the necessary knowledge has been provided by service extensions, helping farmers to adapt and implement viable solutions, thereby getting more benefit from irrigation technology (Levidow et al., 2014). Farmer responses to coping with the projected impacts include both autonomous and planned adaptation strategies, such as modifying planting dates to maximize crop growth calendars and available soil moisture, increased use of on-farm water conservation measures and land levelling to improve water efficiency in rice schemes dependent on surface irrigation (Taylor et al., n.d.).

Climate change will cause many economic and social challenges that will be faced with water management in agriculture. While some aspects of climate change such as increased rainfall can bring some local benefits, there will also be a number of adverse impacts, including reduced water availability

2 and other extreme weather. These negative impacts can place current water management, especially at the level of land and regional managers, with significant risks (Osman, 2018).

Soybean as 2nd crop in dry season that does not require much water, during its early growth stage, flowering and filling of pods, water availability is needed. When experiencing drought, soybean productivity can decrease by 40 - 65% (Engels et al., 2017).

The results of the study (Aminah et al., 2013) state that soybeans that are given a water stress of 150 mm/season (below their normal needs) show very real differences with soybeans that get 300 mm of water/season, that is, there is a very significant decrease in both the plant growth components and the production components. According to the results of research, (Jumrani & Bhatia, 2018) states that lack of water at the vegetative state (7 - 12 days after planting) does not cause damage which means but lack of water during the pollination and seed filling phase (30 - 45 and 55 days after planting) will reduce yields.

The potential of existing dry land, provides ample opportunity to study more deeply about the best time to provide the best water for soybean plants on dry land (rain fed), given the main obstacle faced in the dryland management is limited water due to very low rainfall, so that the solution offered in this research is the proper management of water delivery time, especially on dry or rain fed land.

13 MATERIALS AND METHODS

Location and Experimental Design

The experiment was carried out from June to September 2020 in the farmland located at Maros Regency, South Sulawesi, Indonesia. A split-plot design involving an irrigation method (A) at three methods (Scatter, furrow and Flood irrigation method) as the main plots and the time of giving water (W) with three rates (Every 15 days of age, 15 days of age and at full flowering and Every 10 days of age) as the subplots were was setup. Each treatment combination has three replicates.

Materials used include: Demas 1 variety soybean seeds, inorganic fertilizers (Urea, SP-36 and KCl), organic fertilizers using cow dung manure, Decis and Marshal insecticides, paper bags, rope and others. The tools used include water pumps, hoses, prolong pipes, scales to measure the dry weight of plants, rulers, ovens for the analysis of plant dry matter, fence nets, bamboo stakes and others.

In the field, between treatment plots were made of isolation with a minimum distance of 3 m to avoid water seepage from the other treatment plots. In each main plot a water gauge is installed to calculate the amount of water entering. Plot size 3 m x 2 m. The water channel is made 30 cm deep and 25 cm wide. The provision of water in the channel is only limited to the height of the canal, while the way of inundation is that water is given to the surface of the ground and then the plot is closed so it does not flow out. The Demas-1 variety was planted at a distance of 40 x 20 cm, 2 - 3 seeds / hole. The amount of water given is the same for each treatment, only the time of giving is different, where the water requirement for soybean plants is obtained from the author's research data from the previous year at the greenhouse, it was found that the water requirement for soybean crops was 6.1 liters during its life cycle, the number of plants in one bed 75 so that the total water needed in one bed to production is 458 liters. W1 = every 15 days (5 times of administration) = $458/5 = 92$ liters, W2 = at 15 days of age and at full flowering (2 times of giving) = $458/2 = 229$ liters and W3 = every 10 days (8 times giving) $458/8 = 57$ liters.

Variable Observation

Plant growth observations were carried out every two weeks, which included: plant height, harvest age, greenness leaves, time of flowering (50%) and plant dry weight. Observation of ground water content is carried out every ten days for seeing how much the water application method used and the best time to provide water are able to maintain optimal soil moisture levels for soybean plants. Observations of crop production included a number of filling pods, the number of empty pods, weight of seeds per plant, weight of 100 seeds, and production per hectare and observed at harvest time.

Data Analysis

An analysis of variance (ANOVA) followed by a mean comparison based on Least Significance Different (LSD) was performed to test the effect of the treatment on all measured variables by using the statistical program, Statistics 10.

RESULTS AND DISCUSSION

The results of observations on soil moisture content on the treatment of irrigation methods and time of giving water are presented in Table 1.

Table 1. Effect of irrigation method and timing of irrigation on soil moisture content

Treatment	Ground Water Content								
	I	II	III	IV	V	VI	VII	VIII	IX
Field Capacity	41.15	42.98	40.93	39.87	42.67	39.99	40.95	41.54	40.29
Scatter methods every 15 days	33.79	34.54	32.81	30.98	31.12	29.98	32.76	34.23	32.99
Scatter method at 15 days and on blooming	32.24	39.65	32.65	29.24	40.21	36.88	27.63	26.21	23.11
Scatter method every 10 days	38.99	39.23	38.56	36.45	37.97	36.90	37.78	35.11	38.59
Channel method every 15 days	36.35	35.99	35.69	34.77	34.90	33.78	31.99	39.45	36.45
Channel method at 15 days and on blooming	33.46	37.87	33.48	30.12	39.11	27.63	28.92	28.66	22.97
Channel method every 10 days	39.12	38.23	38.78	37.99	40.11	39.13	37.88	37.33	38.96
Inundation method every 15 days	34.76	32.99	36.96	38.32	33.67	34.68	32.99	35.80	32.73
Inundation at 15 days and on blooming	32.33	38.76	36.99	35.19	39.55	33.74	32.74	28.21	21.94
Inundation method every 10 days	39.87	40.98	41.22	38.78	41.10	37.99	39.79	37.24	40.11

*) soil moisture content is maintained field capacity form

Table 1, it can be seen that the inundation irrigation method treatment with irrigation water is given every 10 days and every 15 days (both methods scatter, channel and inundation methods) have moisture content / moisture content around the field capacity / close to field capacity (Table 1), although the amount of water given is the same as a whole, it is the timing of application that distinguishes the results, where it is given every 10 days and 15 days, almost every phase of plant growth and development gets adequate water. This is probably because most of the soil's pore space is filled with water. The important factors underlying water management are the properties of plants to their water needs, the amount of water provided, the method of irrigation and the characteristics of the soil in storing water (da Silva et al., 2019).

The moisture content of the soil in the inundation method with the time of giving water at the age of 15 days and at full flowering, also showed sufficient soil moisture content for the needs of the plant, as evidenced by the growth components and the results shown were very good, assuming there was an efficiency of the administration time water because only by giving it twice during its lifetime is able to maintain soil moisture, which in the end also gives a fairly high yield, both in the growth component and in the production component.

The results of observations of plant height, harvest age, leaf area, root length and plant dry weight are presented in Table 2.

Table 2. Effect of the method and time of giving water on plant height, harvest age, leaf greenness, flowering age and plant dry weight at harvest

Treatment	Plant Height (cm)	Harvest Age (days)	Greenish leaves	Flower Age (days)	Plant Dry Weight (g)
Field Capacity	56.37	84.77	30.51	30.67	68.11
Scatter methods every 15 days	65.39 d	84.56 b	37.25 cde	40.56 a	92.15 cd
Scatter method at 15 days and on blooming	64.14 cd	84.72 b	29.95 ab	47.00 a	85.89 c
Scatter method every 10 days	66.23 d	85.84 b	34.97 bc	35.78 a	85.80 c
Channel method every 15 days	54.16 ab	86.07 b	36.88 cde	38.00 a	68.11 ab
Channel method at 15 days and on blooming	62.99b cd	89.18 b	31.98 abc	43.00 a	89.59 cd
Channel method every 10 days	55.28 abc	89.07 b	28.10 a	37.00 a	84.93 c
Inundation method every 15 days	53.10 a	86.56 b	42.57 e	40.67 a	61.85 a
Inundation at 15 days and on blooming	69.29 d	76.44 a	41.83 de	47.67 a	101.66 d
Inundation method every 10 days	62.42 b	87.10 b	36.69 cd	32.50 a	80.44b c
HSD 5%	9.27	4.72	5.72	ns	15.11
Sd	8.3946	4.3982	5.4980	5.1890	13.5733

* HSD = Honestly significant difference
ns = not significant
Sd = standard deviation

Plant growth characterized by height shows an interaction between the irrigation method and the time of giving water, where the combination of the inundation method and the time of giving water at the age of 15 days and when in full flowering has the highest effect on plant growth, that is 69.29 cm. It is suspected that the age of 15 days is the vegetative phase and when full flowering is the generative phase, the water needs for plants are fulfilled in the sense that there is sufficient amount of water available when the plants really need it in optimal quantities (229 liters for two times the time of giving) in this case matching according to time. Meanwhile, the water supply every 10 days and every 15 days, it is assumed that the volume of water was not sufficient at that time, namely only 92 liters for W1 (five times a given) and 57 liters for W3 (eight times a given). This is due to insufficient water availability, which causes the availability of nutrients and nutrient solubility in the soil to decrease. Thus, nutrient transport to plant tissue will also be lower. This is in line with research conducted by (Li et al., 2020) that soybean plants grown in plastic houses with reduced water supply intervals caused a decrease in plant height by 9.2%. In addition, research conducted (Kumar et al., 2015) shows that soybeans that are given drought stress by reducing the intensity of water supply in the generative phase also cause a reduction in plant height.

The method of irrigation and the time of application of irrigation water and its interactions have an effect on leaf greenness which is an indicator of leaf chlorophyll content (Table 2). The inundation method with the time of giving irrigation water every 15 days had the highest leaf greenness and was not significantly different from the water treatment at the age of 15 days and at full flowering.

Leaf greenness correlates with leaf chlorophyll content, the greener a leaf is, the more chlorophyll content and the higher the ability to photosynthesize, it can also be a sensitive tool to identify Genotypic variation in estimating the rate of photosynthesis and can serve as a selection criterion in the Iglesias et al 2015 plant breeding program. Chlorophyll is a determining element of plant photosynthetic ability, which is mostly found in plant leaves. Leaf chlorophyll levels are closely related to leaf greenness. Chlorophyll is a pigment that has a function in the photosynthetic process of plants. The higher the leaf chlorophyll content, the higher the ability to photosynthesize. In the process of photosynthesis, plant chlorophyll is a complex molecule that plays a role in capturing sunlight energy which is a process of energy and electron transfer (van der Tol et al., 2016).

The interaction between the irrigation method and the time of giving water did not affect the flowering age, but the treatment of the time of giving water in this case as a single factor had a significant effect on the age of flowering, where the time of giving water every 10 days gave the fastest effect in terms of flowering age, namely 39, 74 days and significantly different from the time of administration every 15 days (W1) and treatment at 15 days and at full flowering (W2). This is because if the plant gets enough water, the flower time will also be faster.

The dry weight of the plant also occurred an interaction between the method and the time of giving water, where the combination of the inundation method and the time of giving water at 15 days and when in full flowering showed the best effect on the dry weight of the plant, namely 101.66 grams (Table 2), this is because In this method of inundation, the land conditions are wet enough for several hours and the age of 15 days is considered as the vegetative growth phase of the plant and the age at

flowering as the reproductive phase of the plant to get a sufficient amount of water so that it is able to meet the needs of water in both phases.

The results of observations on the weight of 100 seeds, the number of empty pods, number of filling pods, seed weight per plant and production per hectare are presented in Table3.

Table 3. Effect of irrigation methods and time of giving water on weight of 100 seeds, the number of empty pods, number of filling pods, weight planting seeds and production

Treatment	Weight 100 seeds (gr)	Number of Empty Pods	Number of Contained Pods	Weight seed/plant (gr)	Production/ha (ton)
Field Capacity	10.56	3.78	102.89	26.14	3.27
Scatter methods every 15 days	11.22 a	1.56 a	139.56 de	33.78 bc	4.22 bc
Scatter method at 15 days and on blooming	12.78 a	1.44 a	123.14 bcd	31.33 bc	3.91 bc
Scatter method every 10 days	11.33 a	1.44 a	134.11 cd	33.47 bc	4.17 bc
Channel method every 15 days	11.00 a	1.78 a	105.86 bc	28.11 ab	3.51 ab
Channel method at 15 days and on blooming	10.89 a	0.67 a	119.33 bcd	33.33 bc	4.16 bc
Channel method every 10 days	12.56 a	3.89 a	112.89 bcd	29.00 ab	3.62 ab
Inundation method every 15 days	14.22 a	1.67 a	91.00 a	21.81 a	2.72 a
Inundation at 15 days and on blooming	10.67 a	0.89 a	164.95 e	37.11 c	4.64 c
Inundation method every 10 days	11.89 a	3.44 a	120.22 b	26.79 ab	3.34 ab
HSD 5%	ns	ns	28.79	7.51	0.94
Sd	1.7983	1.8802	31.3260	5.6563	0.7069

* HSD = Honestly significant difference

ns = not significant

Sd = standard deviation

Technique irrigation using waterlogging methods and watering time at 15 days and at full flowering appear to have the potential to increase soybean yield. These results suggest that the puddle irrigation method / method with the time of giving water at the age of 15 days and at full flowering is sufficient to meet the water needs for growth and production of soybean plants (as evidenced by the results of the analysis of the two shows that there is an interaction between the method and the time of giving water.

Observations on the weight variables of 100 seeds and the number of empty pods did not show a significant effect between the irrigation method and the time of giving water, but this was different from the variable in the number of filled pods, where the treatment of the inundation irrigation method was given water at the age of 15 days and at the time of flowering full showed a significant interaction with a very high number of filling-pods, namely 164.95 pods, but the resulting seed size was small compared to other treatments, although not significantly different (weight of 100 seeds was not significant), this may be due to compensation, from the small size of the seeds but photosynthesis is directed to the formation of a large number of seeds in the pods, so that the effect of real interactions occurs, considering that the time of giving water at the age of 15 days and during full flowering is a time that really requires a sufficient amount of water and this method of standing is effective for maintaining soil moisture for several days. days until before pod formation because the amount of water given is sufficient for this phase, which is 229 liters when it enters full flowering.

Likewise with the observation of the resulting production where the irrigation method and the time of giving water showed an interaction, the inundation irrigation method with the time of giving water at the age of 15 days and at full flowering resulted in the highest production of dry soybean seeds, namely 4.16 ton/ha and different, very real with other treatment combinations. It is as explained above that the inundation method is a method that is considered capable of maintaining soil moisture, especially when it enters the vegetative phase (age 15 days) and the generative phase (age at full flowering) where at that time the amount of water given is sufficient, namely 229 liters if compared with other treatments, although given every 10 days and every 15 days, the amount of water volume given is not sufficient for the optimal water needs for both phases, if experience drought in the vegetative and generative stages, soybean productivity can decrease by 40 - 65%.

Research results by (Vanneuville et al., 2012) shows that the stress in the vegetative phase has no significant effect on the growth and production of soybean plants. On the other hand, giving stress in the generative phase has a significant effect on inhibiting growth and reducing production by up to 70%. Giving stress causes the plant to adopt an adaptation mechanism, namely by reducing the number of leaves, narrowing the leaves, reducing the stomatal openings, degradation of leaf

chlorophyll, and responding to a motion by folding the leaves. Plant adaptation mechanism affects the value of water use efficiency and radiation use efficiency.

Based on research result (Aminah et al., 2020) obtained that continue with a water surface 5 cm increase soybean seeds yield (seed weight) by 19.23% compared to field capacity. This thing supported by the increase of harvest component like number of pods, and number of seeds/crop by 31.1 % and 37.59% compared to field capacity.

The availability of water during plant growth greatly determines the yield of soybeans. The amount required is different for each growth phase. Water consumption for soybean plants is highly dependent on climate, soil type, soil management and duration of plant growth, thus water requirements for each agro-ecosystem area are different. Although soybeans as secondary crops do not require much water, during the vegetative stage, flowering and filling of pods, water availability is needed (Siczek et al., 2015); (Bodner et al., 2015) and (Dawson et al., 2016).

Smart irrigation is known as an important part of precision agriculture nowadays, where a well-scheduled and well-dosed irrigation regime is essential, as by applying the right amount of water at the right time one avoids plant demand being either exceeded or not met, resulting in reduced crop yield. If plant water demand is significantly exceeded by the quantity of water applied, the excessive water can carry pollutants off-site through either percolation or runoff (Annandale et al., 2011)

The results of the research by (Aminah et al., 2013) found that soybeans given a water stress of 150 mm / season (below normal requirements) showed a very significant difference with soybeans that received 300 mm of water / season (normal needs), namely a very significant decrease. to the components of plant growth and to the components of production.

Agricultural development on dry land for food crops needs to be encouraged by various technological innovations, given its large potential so that it is quite potential to support efforts to strengthen food security. Developing lowland dryland agriculture for food now and in the future is a strategic choice facing the challenge of increasing food production to support the national food security programmes.

CONCLUSION

The watering technique using the waterlogging method at the time at the age of 15 days and at full flowering, had the potential to increase the yield production of soybean, that was the number of pods 164.95 pieces, the weight of seeds 37.11 g and production 4.64 ton/ha. The inundation method was more effective in maintaining soil moisture and twice the application time, but in an optimal amount (229 l/time) was very effective in maintaining soil moisture.

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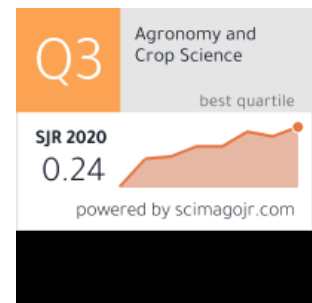
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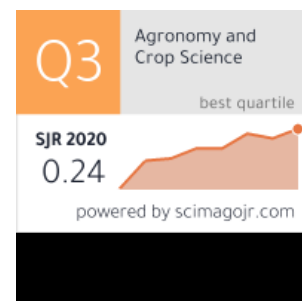
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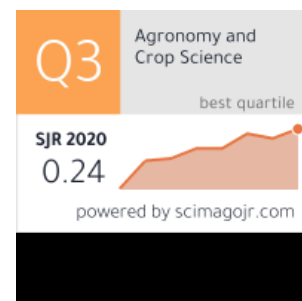
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