Research Article

Evaluation of Improved Onion (*Allium Cepa* L.) Varieties for Growth and Bulb Yield Under Irrigated Condition in Iowland Area of South Omo Zone, Southern Ethiopia

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Abstract

Onion is an important vegetable in Ethiopia. However, the yield of onion is limited mainly due to shortage of improved varieties to specific area with other factor. To solve this problem the feld experiment was conducted in Omorate and Weyito location during 2019 and 2020 cropping season, respectively with the objective of identifying high-yielding improved variety/ies for bulb production. The experiment contains six varieties namely Local, Nafs, DZSHT-91-2B, DZSHT-157-1B, Adama and Nasick Red were laid down in randomized complete block design with three replications. Data were collected on number of leaves per plant, plant height, bulb diameter and bulb yield and subjected to analysis of variance using SAS softwarb " ar

⁻¹) and (23.7t ha⁻¹) bulb yields were recorded from DZSHT-91-2B variety at Weyito and Omorate, respectively. Therefore, use of DZSHT- 91-2B variety can be recommended for onion producing farmers/agro-pictorial at Weyito, Omorate and its vicinity.

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Received: 3-May-2022, Manuscript No: acst-22-56166, Editor assigned: 6-May-2022, PreQC No: acst-22-56166 (PQ), Reviewed: 11-May-2022, QC No: acst-22-56166, Revised: 17-May-2022, Manuscript No: acst-22-56166(R), Published: 25-May-2022, DOI: 10.4172/2329-8863.1000510

Citation: Tadesse A, Bekele Y (2022) Evaluation of Improved Onion (L.) Varieties for Growth and Bulb Yield Under Irrigated Condition in Iowland Area of South Omo Zone, Southern Ethiopia. Adv Crop Sci Tech 10: 510.

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Experimental treatments and design

Experimental procedures

Collected data

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Statistical Analysis

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Results and Discussion

Plant height (cm)

• 1 1 11 11 1 • • • • 11 • × 1• • • •

Number of leaves per plant

(0.0)