

Analysis of post harvest total soluble solid content in *Kharif* onion

■ MALLIKARJUN DHOTRE¹ AND T. B. ALLOLLI

AUTHORS' INFO

Associated Co-author :

¹Department of Horticulture,
University of Agricultural Sciences,
DHARWAD (KARNATAKA) INDIA

Author for correspondence :

T.B. ALLOLLI

Regional Horticultural Research and
Extension Center (UHS, B),
Kumbapur, DHARWAD
(KARNATAKA) INDIA
Email : girid6@gmail.com

ABSTRACT : A research was carried to examine total soluble solid (TSS) content in onion at different storage intervals. Two separate experiments were conducted with 1) different red onion genotypes and 2) different nitrogen sources. Three contrasting patterns were noticed with respect to variations in TSS content in viz., i) TSS decreased with the storage period. ii) TSS level increased initially and then started decreasing to a level higher than the initial TSS. iii) TSS content rose initially and gradually came down even below to the initial level. Among 14 onion genotypes, Arka Pragati, Bellary Red and Arka Kalyan had higher TSS levels (14.93, 14.63 and 14.13^o Brix, respectively) at the end of storage period. Whereas, lower TSS content recorded in Bidar Local (12.07^o Brix), Rampur Local (12.47^o Brix) and Telgi Red (12.60^o Brix). Among nitrogen sources, the highest TSS at the end of storage period was recorded for organic sources like, vermicompost (14.00^o Brix) and agrigold (14.13^o Brix) while, the treatment control (without any added nitrogen) resulted in the lowest TSS content all through the storage period. The study yielded some of the genotypes and nitrogen sources vital for improved post harvest TSS content and storability of onion grown during *Kharif* season.

Key Words : Onion, TSS, Storage, Genotypes, Nnitrogen

How to cite this paper : Dhotre1, Mallikarjun and Allolli, T.B. (2012). Analysis of post harvest total soluble solid content in *Kharif* onion, *Adv. Res. J. Crop Improv.*, **3** (2) : 110-113.

Paper History : Received : 27.06.2012; Revised : 05.09.2012; Accepted : 29.10.2012