RESEARCH PAPER

FOOD SCIENCE.

e ISSN-2230-9403 ■ Visit us: www.researchjournal.co.in
—Volume 5 | Issue 2 | October, 2014 | 125-129
DOI: 10.15740/HAS/FSRJ/5.2/125-129

Evaluation of physical properties of kidney beans (*Phaseolus vulgaris*)

YOGENDRA SINGH AND SURESH CHANDRA

The research work was conducted on the physical properties of three species of kidney bean (White speckled kidney bean, Red small kidney bean and Black kidney bean). Length, width, thickness varied between 1.04-1.7, 0.66-0.79, 0.49-0.58 cm for three species of kidney bean, respectively. Arithmetic mean diameter, geometric mean diameter, square mean diameter and equivalent diameter were 0.73-1.00, 0.70-0.96, 1.23-1.62, and 0.88-1.19 cm², respectively. Sphericity and aspect ratio ranged between 0.56-0.67 and 0.45-0.64 for kidney bean, respectively. Porosity (%) as a function of bulk density and true density were 0.21-0.70(%), respectively. Volume, surface area and shape factor varied between 0.20-0.58, 0.20-0.20

Key Words: Kidney bean, Physical properties, Shape factor, Square mean diameter

How to cite this article: Singh, Yogendra and Chandra, Suresh (2014). Evaluation of physical properties of Kidney beans (*Phaseolus vulgaris*). Food Sci. Res. J., 5(2): 125-129.

MEMBERS OF RESEARCH FORUM

Author for correspondence:

SURESH CHANDRA, Department of Agricultural Engineering and Food Technology, S.V. Patel University of Agriculture and Technology, MEERUT (U.P.) INDIA

Email: chandra21778@yahoo.co.in

Associate Authors'

YOGENDRA SINGH, Department of Agricultural Engineering and Food Technology, S.V. Patel University of Agriculture and Technology, MEERUT (U.P.) INDIA