201 (02) 521 (23)	www.international-agrophysics.org / issues
International Agrophysics	time without or correct developers, marconnia, Continue with
Polish Journal of Soil Science	International Agrophysics
Acta Agrophysica	Agrophysics Polish Academy of Sciences
Instytut Agrofizyki	ISSN: 0236-8722
International Agrophysics	vol. 22, nr. 3 (2008)
General information	ie hie dones water ter porevout al. least ie hie hie bie
Issues	calculation of the density remnes er (185). calculation
Search	previous paper back to paper's list next paper Determining some physical properties of bergamot (Citrus medica)
	 S. Rafiee, M. Keramat Jahromi, A. Jafari, M. Sharifi, R. Mirasheh, H. Mobil Department of Agricultural Machinery, Faculty of Bio-Systems Engineering, College of Agricultural and Natural Resource, University of Tehran, Karaj, Iran vol. 21 (2007), nr. 3, pp. 293-297 abstract Physical properties are often required for designing post harvest handling/processing equipment for agricultural products. Bergamot is a species of citrus fruit. Physical properties of bergamot are necessary for equipment used in activities such as transportation, storage, grading, packing, and in food production processes like drying, Jam production and so on. In this study some physical properties of bergamot were determined. Properties which were measured included fruit dimensions, mass, volume, projected area, fruit density, shell ratio, geometric mean diameter, sphericity and surface area. Bulk density, porosity and also packing coefficient were measured for three groups of small, medium and large category of bergamots. Experiments were carried out at moisture content of 84.9% w.b. for bergamot shell and 87.34% w.b. for its meat. Result showed that average mass and volume were 291.9 g and 456.83 cm3, respectively. Dimensions increased from 78.7 to 160 mm in length, 64.2 to 128.5 mm in width, and 64 to 125 mm in thickness. The mean projected area perpendicular to length, width, and thickness obtained 7063.61, 7933.39 and 8137.77 mm2, respectively. The geometric mean diameter and surface area were calculated as 97.02 mm, 30412.31 mm2, respectively, while sphericity and shell ratio (w.b.) were measured at 0.89 and 0.62%, respectively. keywords bergamot, citrus, physical properties
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