

Varazdin Development and Entrepreneurship Agency
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University North
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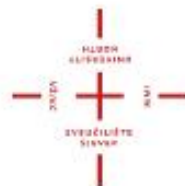
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"Socio Economic Problems of Sustainable Development"

Book of Proceedings

Editors:

Muslim Ibrahimov, Ana Aleksic, Darko Dukic



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STUDY OF QUALITY INDICATORS OF THE PUMPKIN GROWN ON THE TERRITORY OF AZERBAIJAN

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ABSTRACT

The article provides data on the organoleptic and physico-chemical assessment of the quality of pumpkin grown in Azerbaijan. In 2018, we have collected two varieties of pumpkins on the territory of Azerbaijan: Palav-kadu 268 and Perekhvatka. When assessing the organoleptic characteristics of the pumpkin, appearance, maturity, size, and damage were determined. The fruits of these varieties were ripe, whole, healthy, unpolluted, disease-free, with the color and shape of the fruits characteristic of botanical varieties, with a stem, i.e. fully comply with the requirements of the standard GOST 7975 – 68. Organoleptic studies have shown that the pumpkin varieties studied: Palav-kadu 268 and Interception conform to the requirements and standards of GOST 7975-68, deviations from the standard were not observed and these varieties of pumpkin are reasonable to be sold to the public. From the physico-chemical parameters in the studied varieties of pumpkins, the content of water and carotene were determined. A study of the chemical composition of pumpkin varieties in 2018 showed that the pumpkin variety Palav-kadu 268 contains moisture 90%, carotene 1.6 mg; a grade Perekhvatka 88% moisture, 1.9 mg carotene.

Keywords: expertise, organoleptic method, pumpkin, physic-chemical method, variety

1. INTRODUCTION

One of the valuable and delicious vegetables is pumpkin, which unfortunately, today is not in wide demand. It is necessary to take into account that the pumpkin, possessing the ability to be well kept, allows to prolong its consumption and, to a certain extent, solves the problem of uninterrupted supply of the population with vegetables. In Azerbaijan, melon growing has primarily begun to develop in the Kura-Araks lowland (in the environs of the ancient city of Ekbatan in what is now Beylagan), on the coast of Kura in Ganja - the Kazakh zone, in Nakhichevan. A small amount of fiber (0.7%) and organic acids allows you to include pumpkin in the diet for diseases of the gastrointestinal tract, and a large amount of pectin has a particularly positive effect in inflammation of the colon. (Гудальюк , 1997, с.178). Since the pumpkin has a low calorie content, it is advised to eat with obesity. In Azerbaijan, decoctions of pumpkin flowers are used to heal wounds. The yield of carotene per unit area from the pumpkin is significantly higher than that of the mountain ash, red carrots. Pumpkin is rich in a set of almost all vitamins, and since in most cases it is consumed fresh, the whole set is preserved, whereas other vegetables lose vitamins.(Шепелев , 2002. с. 223).

2. EVALUATION OF THE QUALITY OF PUMPKIN (PALAV-KADU 268 AND PEREKHVATKA) ORGANOLEPTIC METHOD

In 2018, we have collected two varieties of pumpkins on the territory of Azerbaijan: Palav-kadu 268 and Perekhvatka. When assessing the organoleptic characteristics of the pumpkin, appearance, maturity, size, and damage were determined.(Базарова, Боровикова,1986, с 295). The fruits of these varieties were ripe, whole, healthy, unpolluted, disease-free, with the color and shape of the fruits characteristic of botanical varieties, with a stem, i.e. fully comply with the requirements of the standard GOST 7975 – 68.(1993, с 6.). The fruits (10 copies of each variety) were loaded loose (in bulk), but with a soft litter of straw 10 cm thick and brought to the laboratory of the Az Research Institute of Food Industry for further research.

2.1. Appearance

In accordance with the requirements of standards GOST 7975 - 68 there should be one economic botanical variety in the batch of vegetables. The belonging of vegetables to the economic-botanical variety is established mainly in two ways - in form and color. Pumpkin should be uniform in color. The variety Palav-kadu 268 has elongated fruits, narrowed in the middle (interception), with a thickening towards the apex and to a lesser extent towards the stem. The ripe fruit is light brown, with a pattern in the form of broken stripes of a darker color than the background. Grade Perekhvatka - the tip of the fruit is slightly thickened, in the form of a cylinder, mature fruits become orange in color.

2.2. Magnitude

The size of most varieties of vegetables is determined by the maximum transverse diameter in cm: for the variety Palav-kadu 268 - 19.5 grades Perekhvatka-12.

2.3. Maturity

According to technical requirements all vegetables must be of a certain ripeness. The maturity of vegetables is determined by the size, color, condition of the skin, the density of the pulp. Mature fruits include fruits with a color of pulp, characteristic of this botanical variety, seeds mature or close to ripening. To determine the maturity of the fruit, installed on the internal structure, cut no more than 10% of the fruits of the mass of the sample taken. Both varieties taken are mature. Varieties Palav-kadu 268 and Perekhvatka have orange flesh, dense-crunchy, tender, leathery seeds, easily defined, the seed cavity is small (only in the upper part of the fruit in Palav-kad 268). In the Intercept variety, the seeds are of medium size, and in the Palav-Kadu variety 268, they are smooth, round and pale-dirty.

2.4. The presence of disease.

All vegetables harvested and marketed must be healthy. Admissible microbiological diseases include the pumpkin crab. Fruits affected by these diseases within the established norms, are considered standard, in excess of the norm, non-standard. With other microbiological diseases, products are transferred to waste. For each type of vegetables are characterized by different types of damage that is provided in the standards. For example, for pumpkin - scuffed. Taken to study varieties of pumpkins are healthy, without damage. Organoleptic studies have shown that the pumpkin varieties studied: Palav-kadu 268 and Perekhvatka conform to the requirements and standards of GOST 7975-68, deviations from the standard were not observed and (these varieties of pumpkin) it is advisable to implement to the population.

3. EVALUATION OF THE QUALITY OF PUMPKIN (PALAV-KADU 268 AND INTERCEPTION PEREKHVATKA) BY PHYSICO-CHEMICAL METHOD

By this method, we determined the content in the pumpkin moisture, carotene. To determine the moisture in the pumpkin, we took 3 g of raw pumpkin of the variety Palav-kadu 268 and 3 g of the variety Perekhvatka. The analysis was carried out according to the method commonly used in the examination. The total moisture content in the pumpkin variety Palav-kadu 268 was 90%, for the grade Perekhvatka 88%.

3.1. Determination of carotene content

The content of carotene in 1 g of pumpkin is calculated by the formula:

$$X = \frac{0.01 * a * c * 100}{M * b} mg\%$$

where, a - the height of the column of the standard solution, sm ; c - the volume of the test solution, ml ; M is the mass of pumpkin puree taken for analysis g ; b - the height of the column of the test solution, sm

We carried out analyzes to determine the content of carotene in the pumpkin of the variety Palav-kadu 268 and in the pumpkin of the variety Perekhvatka. In the first case, we took 100 g of pumpkin varieties Palav-kadu 268 and conducted an analysis using the above method. Thus, a 100 g sample of a variety of pumpkin Palav-kadu 268 in an amount of 100 g contains 1.6 mg of carotene. In the second case, an analyzed sample of pumpkin variety Perekhvatka in the amount of 100 g contains 1.9 mg of carotene.

4. CONSLUSION

Organoleptic studies have shown that the pumpkin varieties studied: Palav-kadu 268 and Perekhvatka conform to the requirements and standards of GOST 7975-68, deviations from the standard were not observed and these varieties of pumpkin are reasonable to be sold to the public. The study of the chemical composition of pumpkin varieties in 2017 showed that the pumpkin variety Palav-kadu 268 contains moisture 90%, carotene 1.6 mg; a grade Perekhvatka 88% moisture, 1.9 mg carotene. Organoleptic studies have shown that the pumpkin varieties studied: Palav-kadu 268 and Perekhvatka conform to the requirements and standards of GOST 7975-68, deviations from the standard were not observed and these varieties of pumpkin are reasonable to be sold to the public. The study of the chemical composition of pumpkin varieties in 2017 showed that the pumpkin variety Palav-kadu 268 contains moisture 90%, carotene 1.6 mg; a grade Perekhvatka 88% moisture, 1.9 mg carotene.

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