

ASPECTS REGARDING THE ORNAMENTAL VALUE OF SOME ROSE VARIETIES IN BOTANICAL GARDEN NURSERY CONDITIONS - IASI COUNTY

ASPECTE PRIVIND VALOAREA ORNAMENTALĂ A UNOR SOIURI DE TRANDAFIRI ÎN CONDIȚIILE GRĂDINII BOTANICE IAȘI

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Abstract. *The paper present aspects regarding the ornamental value of some rose varieties, in the botanical garden nursery conditions. The observations were made at the next rose varieties: Foc de Tabără, Luchian, Betty Prior, Crimson Glory. There were studied six features defining the decorative value of these varieties, respectively: the foliage, the diseases resistance, the flowering intensity, the form of the flower, the color of the petals and the odor.*

Key words: *rosa, estimation, decorative value.*

Rezumat. *În lucrare sunt prezentate aspecte privind valoarea ornamentală a unor soiuri de trandafiri în condițiile grădinii botanice din Iași. Observațiile au fost făcute la următoarele soiuri de trandafir: Foc de Tabără, Luchian, Betty Prior, Crimson Glory. Au fost luate în studiu șase însușiri ce definesc valoarea decorativă a acestor soiuri și anume: frunzișul, rezistența la boli, intensitatea înfloritului, forma florii, culoarea petalelor, parfumul.*

Cuvinte cheie: *trandafir, bonitare, valoare decorativă.*

INTRODUCTION

One of the basic components of the green spaces ensuring the aesthetic aspect of the localities and which contributes to the health and good state of mind of people and to insuring a favourable work climate, is constituted by the floral and rose arrangements (Haenchen, 2003; Wagner 2001, 2002).

The rose has been considered ever since the past “The Queen of Flowers”, because of its multiple qualities and especially the richness and beauty, perfume and the different colours and shapes (Eckart, 2003; Popescu, 1986).

They are characterized through a series of characteristics, among which we mention:

1. - the bush shape;
2. - the vigour;

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3. - the leafage;
4. - the resistance to diseases;
5. - the shank and the floral peduncle;
6. - the blooming intensity;
- 7 -the rose bud shape ;
8. - the flower shape;
9. -the durability of the flower in the field;
10. - the colour at opening;
11. - the colour at blossoming ;
12. - the manner of petals fall;
13. - the perfume.

MATERIAL AND METHOD

The observations regarding the roses were made within the nursery botanical garden Iași.

The nursery also has a rich variety of roses, among which we mention: *Foc de Tabără*, *Luchian*, *Betty Prior*, *Crimson Glory*, *Acapulco*, *Super Star*, *Karen Blixen* etc.

The researches were made within the nursery, on 6 varieties of roses and namely: „*Foc de Tabără*”, „*Luchian*”, „*Betty Prior*”, „*Crimson Glory*”. They consisted in studying 6 more important characteristics that define to the greatest extent the decorative value of these varieties and namely: 1: the leafage, 2. the resistance to diseases; 3. the blooming intensity; 4. the flower shape; 5. the colour of petals; 6. the perfume.

The observations were made in 6 period, starting with the date of June 5th approximately every 2 weeks. In the end, we calculated the arithmetical mean for each characteristic in part and the total of points for the characteristics analyzed in each variety.

RESULTS AND DISCUSSION

For the 4 varieties of roses studies we drew up quality evaluation sheets that comprise the reliability characteristics and the data regarding which we made the observations (tables no. 1, 2, 3, 4).

The results regarding the studied characteristics are the following:

1. The leafage: This characteristic was appreciated according to the density of leaves on the sprouts, the colour, the shininess, the manner it maintains on the bush during the vegetation period, the maximum grade being 10. Among the varieties taken in the study the highest score was registered by the varieties „*Foc de Tabără*”, „*Luchian*”, „*Betty Prior*” with 54 points ,and the lowest score was registered by the variety „*Crimson Glory*” with 48 points.

Table 1

The quality evaluation sheet for the „Foc de tabără” variety

Crit. No.	Evaluated characteristic	Max. no. of points	Date of observations						Total points	Mean
			5 VI	26 VI	12 VII	30 VII	13 VIII	1 IX		
1.	Leafage	10	9	9	9	9	9	9	54	9.0
2.	Resistance to diseases	8	8	8	8	8	8	8	48	8.0
3.	The blooming intensity	10	10	10	10	10	10	10	60	10.0
4.	The bud shape	9	9	9	9	9	9	9	54	9.0
5.	The colour at blossoming	6	6	6	6	6	6	6	36	6.0
6.	The perfume	7	1	1	1	1	1	1	6	1.0
TOTAL POINTS										43.0

Table 2

The quality evaluation sheet for the „Luchian” variety

Crit. No.	Evaluated characteristic	Max. no. of points	Date of observations						Total points	Mean
			5 VI	26 VI	12 VII	30 VII	13 VIII	1 IX		
1.	Leafage	10	9	9	9	9	9	9	54	9.0
2.	Resistance to diseases	8	8	8	8	8	8	8	48	8.0
3.	The blooming intensity	10	10	10	10	10	10	10	60	10.0
4.	The bud shape	9	9	9	9	9	9	9	54	9.0
5.	The colour at blossoming	6	6	6	6	6	6	6	36	6.0
6.	The perfume	7	1	1	1	1	1	1	6	1.0
TOTAL POINTS										43.0

Table 3

The quality evaluation sheet for the „Betty Prior” variety

Crit. No.	Evaluated characteristic	Max. no. of points	Date of observations						Total points	Mean
			5 VI	26 VI	12 VII	30 VII	13 VIII	1 IX		
1.	Leafage	10	9	9	9	9	9	9	54	9.0
2.	Resistance to diseases	8	8	8	8	8	8	8	48	8.0
3.	The blooming intensity	10	10	10	10	10	10	10	60	10.0
4.	The bud shape	9	8	8	8	8	7	7	46	7.6
5.	The colour at blossoming	6	5	5	5	5	5	5	30	5.0
6.	The perfume	7	2	2	2	2	2	2	12	2.0
TOTAL POINTS										41.6

Table nr. 4

The quality evaluation sheet for the „Crimson Glory” variety

Crit. No.	Evaluated characteristic	Max. no. of points	Date of observations						Total points	Mean
			5 VI	26 VI	12 VII	30 VII	13 VIII	1 IX		
1.	Leafage	10	8	8	8	8	8	8	48	8.0
2.	Resistance to diseases	8	8	8	7	7	6	6	42	7.0
3.	The blooming intensity	10	9	9	9	9	9	9	54	9.0
4.	The bud shape	9	8	8	8	7	7	7	45	7.5
5.	The colour at blossoming	6	6	6	6	6	6	6	36	6.0
6.	The perfume	7	7	7	7	7	7	7	42	7.0
TOTAL POINTS										44,5

2. Resistance to diseases: This represents one of the most important aspects in the culture of roses. The most frequent diseases are : the black spotting , (*Diplocarpon rosae*), the scab (*Phragmidium disciflorum*) and the mildew (*Sphaerotheca pannosa, var. rosae*), the maximum grade being 8. The tolerance to these diseases is determined by dense, puckered, dark green foliage and with a thick cuticle.

The very good results were registered by three of the analyzed varieties, having the maximum score of 48 points, with the exception of the variety „*Crimson Glory*” which has proven sensitive to diseases, registering 42 points.

3. The intensity of blooming: This characteristic represents one of the most important qualities of the varieties of roses. In the case of this character, the maximum grade is 10.

The varieties „*Foc de Tabără*”, „*Luchian*”, „*Betty Prior*” distinguished themselves with a maximum score of 60 points. The minimum score was registered by the variety „*Crimson Glory*” with 54 points.

4. The bud shape: It is a trait characterising all varieties of climbing roses; taking into account both the shape and the dimensions of the flowers.

The varieties „*Foc de Tabără*” and „*Luchian*”, distinguished themselves as having very beautiful flowers: registering a score of 54 points.

5. The colour at blossoming: It can be assessed rather subjectively according to the person executing the pre-operation. The maximum grade for this characteristic is considered 6, and the maximum grade is given to the varieties whose petals have an intense colour, well emphasized and that remains for a longer period of time.

As regards the colour at flowering, the varieties „*Foc de Tabără*”, „*Luchian*” and „*Crimson Glory*” distinguished themselves.

6. Perfume: It is also a much appreciated characteristic, the maximum grade being 7.

Of the 4 varieties analyzed, as regards the most perfumed one, we noticed the flowers of the „*Crimson Glory*” variety with a maximum score of 42 points. This variety represents the velvet red claret flower and with a strong perfume of damask roses.

The quality evaluation operation of the rose characteristics offers us a general, subjective orientation, from some points of view regarding the decorative value of roses. Through this we can thus emphasize the very decorative varieties of roses.

CONCLUSIONS

The analysis of the behaviour of the 4 varieties, regarding the most important decorative characteristics emphasized the following aspects:

1. The most decorative leafage was ascertained in the „*Foc de Tabără*”, „*Luchian*” and „*Betty Prior*” varieties.

2. All the varieties analyzed , with the exception of „*Crimson Glory*” variety that has proven to be sensitive to diseases, have proven most resistant to the attack of diseases,.

3. The varieties „*Foc de Tabără*”, „*Luchian*” and „*Betty Prior*” distinguished themselves through a great intensity of blooming.

4. The most beautiful flowers have proven to be those from the varieties „*Foc de Tabără*” and „*Luchian*”.

5. As regards the colour of flowers the most valuable varieties distinguished were „*Foc de Tabără*” and „*Luchian*”

6. The most perfumed flowers, of the four varieties analyzed have proven to be the flowers of the variety „*Crimson Glory*”.

7. From the point of view of the total score, the most valuable variety is „*Crimson Glory*”, registering a score of 44.5 points), distinguishing itself through a medium vigour, semi-erected branches, medium-size, dense, normal mat-green leaves. The flowers are of a red claret velvet colour with shades in blue and with a strong perfume of damask roses. The disadvantage of this variety is represented by the slight sensitivity to mildew and frost.

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