

Study of Some Quantitative Features of Variety of Parsley Saccharinate

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SUMMARY

As the variety of "Saccharata" parsley root was created to ICDLF Vidra presented phenotypic expression of interest in this variety in the specific conditions from SCDL Iernut. Setting up experiences was carried out the seed of 100 elite who have been carried out 100 families in the fields of study by the former plants mother (CSD pm), the year of each biological cycle "from seed to seed". The purifications have used biological method of negative individual selection that was eliminated by plants, unrepresentative families. The harvest has used the method for selecting the ascending. In mother plant phase have been performed biometric measurements on 20 plants/family. Using statistical calculation has been determined the variability of studied features (Tab. 1), and production capacity of the production of roots per hectare. Height rosette of leaves, presents medium variability ($S\% = 15.65$) and falls within the confidence interval $K = (29.28 \text{ to } 40.14 \text{ cm})$ promoting mechanized harvesting nozzle of leaves. Length roots recorded values (average length of a value of 15.65 cm^3 , and the range of confidence $K = (11.17-20.08)$ which indicates that the soil is characterized by favorable qualities for developing roots of parsley. "The height of seed plant" - are important as uniformity for mechanized harvesting. Average value was 124.76 cm and has a medium variability (13.40%). "The quantity of seed/plant" has been recorded an average of 33.31 g , having a high variability ($s\% = 22.47$). Average yield on all families of seed / ha was 455 kg / ha , showing a high variability between families ($240-733 \text{ kg / ha}$). Features studied "Saccharata" variety, environmental conditions specific to the SCDL Iernut area showed great variability, excepting the "height of seed plant" which has shown a middle variability. Through a improved selection can be obtained a new cultivar with high production capacity and superior quality indices.

Tab. 1

The indices of variability of some parsley features

Feature	\bar{x}_{med}	s	s^2	$S\%$	$k = \bar{x}_{med} \pm s$	Variability
Height rosette (cm)	34.71	5.43	29.5	15.65	29.28-40.14	Medium
Length root (cm)	15.63	4.45	19.8	28.49	11.17-20.08	Mjor
Parcel diameter (cm)	3.31	7.24	52.5	21.86	25.88-40.37	Large
Weight root (g)	57.71	27.4	751.2	47.48	30.31-85.12	Major
Height of seed plant (cm)	124.76	16.72	279.6	13.40	98.04-141.48	Medium
Amount of seed/plant (g)	33.31	7.48	56.06	22.47	25.83-40.79	Large

Keywords: quantitative features, variability, correlations, seed production

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