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NEW SELECTIVE SEED STOCKS OF DRUPACEOUS CULTURES FOR NECTARINE

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Introduction

Previous joint researches of Nikita Botanical Gardens – National Scientific Centre and Botanical Garden of Dnepropetrovsk National University named after O.Gonchar covered results in search of new origins and donors for valuable economical and biological properties, formation the new planting stock what makes it possible to improve selection of modern nectarine, peach cultivars and their seed stocks [5, 6, 24]. Breeding new or enriching real cultivars of nectarine, peach and their seed stocks are caused by climatic zone requirements to get effective cultivation of fruit production in the Crimea, Dnepropetrovsk and Kherson regions. Our joint researches gain great importance due to low frost-resistance of almond seed stocks, which are used to grow nectarine and peach seedlings in different regions of Russia and Ukraine [4, 16, 24]. Thereby it's necessary to breed new stocks resistant to winter frost. Scientists of Nikita Botanical Gardens contributed a lot into study of seed stocks for nectarine and peach cultivars [3, 5, 7, 9, 11, 13 – 15, 17 – 22, 24, 25].

For efficient selection of better seed stocks of drupaceous cultures it would be more reasonable to use bred in Nikita Botanical Gardens genotypes of intraspecific hybrids with wild Chinese co-genuses of *Persica* Mill. – Peach of David (*P. davidiana* (Carr. Franch.)), Peach of Gansu (*P. kansuensis* Rehd.), peach of the world (*P. mira* Koehne) and nectarine cultivar Kuldzhynsky (2x), as they possess cytoplasmic male sterility (CMS). Among hybrids mentioned above the following are recommended: F₁ 40-99, F₁41-99, F₁ 47-99, F₁ 48-99, F₁ 55-99, F₁ 62-99, F₁ 65-99 and etc. [23].

Horticulture nursery of the Crimea should follow experience in research of drupaceous seed stocks, gained by scientists of Central Republic Botanical Garden AS USSR (Kiev)

I.M. Shaitan, L.M. Chuprina and V.A. Anpilogova [12]. According to their study results valuable peach and almond hybrids 2151,4-0 and 3669 were identified as seed stocks for drupaceous cultures. These hybrids bring balanced seed generation in the second and further cohorts. Intraspecific hybrid Sputnik 1 (Stock 1), bred by I.M. Shaitan and L.M. Chuprina in CRBG of AS USSR applying crossing of Mao-tha-or and wild Chinese peach cultivar – *P. davidiana* Carr., is a successful seed stock for peach [12]. Seed stock Sputnik 1 is recommended for cultivated peach and nectarine species in regions with possible freezing of root system in winter [8].

Objective research is to sort out new best seed stocks of drupaceous cultures for nectarine

in terms of study genotypes in Kherson State University, Steppe branch of Nikita Botanical Gardens, Dzhankoy IKP for further use in horticulture nursery of the Crimea and Ukraine.

Objects and methods of the research

Research objects were seed stocks of drupaceous cultures, sowed in different years in horticulture nurseries in November-January where their germinating capacity was determined (% , points). Seed germinating capacity registered from 1-10% was equal to 1 point (too low); 11-25% - 2 points (low); 26-50% - 3 points (middle); 51-75% - 4 points (high); 75% or more – 5 points (very high).

In 2009 seed sowing of stock forms was realized in Kherson State University, in 2011 – in Steppe branch of Nikita Botanical Gardens, in 2014 – in Dzhankoy IKP, village Medvedevka. Seed sowing, soil and plants treatment and stock growing were carried out according to standard technology in horticulture nursery [2].

Results and discussions

Analyzing study results in seed germinating capacity of drupaceous cultures stock forms within three nurseries it was found out that not all study stock specimens possess high germinating capacity, close to control specimen, almond (table 1, table 2), and to intraspecific hybrid Sputnik 1 (table 3).

The best seed stock in the nursery of Kherson State University was registered form 1-1-35, as its seed germinating capacity made 79,1% (5 points). Almond seeds germinating capacity was 66,5% (4 points). Too low seed germinating capacity was fixed for stocks: 1-1-44 – 3,1% (1 point), 1-2-17 – 3,2% (1 point), alycha 61-88 st. – 5,0% (1 point). Stock forms with too low germinating capacity of seeds are out of interest for further research. In the nursery of Steppe branch of Nikita Botanical Gardens (table 2) the best seed germinating capacity was marked for 3 selective forms of stocks: 1-1-35 – 56,6% (4 points), 1-2-26 – 53,7% (4 points), 2-7-10 – 51,6% (4 points). It's reasonable to exclude form 2-03-3 out of further experiments, as its seed germinating capacity made 5, 7% (1 point). In the nursery of Dzhankoy IKP (table 3) high seed germinating capacity was presented by three stock forms: 2-01-12 – 61,6% (4 points), 2-02-08 – 70,0% (4 points), 2-05-14 – 56,2% (4 points). The prime selective forms, by germinating capacity, close to control specimen – Sputnik 1, are forms 2-06-20, 2-07-9, 171-00 and 174-00. Forms with only 2 points germinating capacity needs to be studied in future.

Table 1

Seed germinating capacity of drupaceous cultures on an experimental area of Kherson State University (November the 17th 2009)

№	Stock, Selection form	A number of seed, units.		Seed germinating capacity	
		sowed	germinated	%	point, (5points- scale)
1	2	3	4	5	6
1	3-9-11*	75	28	37,3	3 (middle)
2	3-7-5a-16*	74	31	41,9	3 (middle)
3	Peach of the world 13-1-4-51*	200	85	42,5	3 (middle)
4	644-89*	170	74	43,5	3 (middle)
5	631-89*	300	134	44,7	3 (middle)
6	2-10-8*	85	35	44,6	3 (middle)
7	3-9-16*	200	86	43,0	3 (middle)
8	F ₁ (peach x almond) 13 block.*	170	91	53,5	4 (high)
9	621-89*	200	120	60,0	4 (high)

10	1005-88*	165	98	59,4	4 (high)
11	3-9-33*	200	62	31,1	3 (middle)
12	1-1-37**	149	102	68,5	4 (high)
13	3-9-63*	200	112	56,0	4 (high)
14	2-6-9**	80	47	58,8	4 (B high)
15	1-2-14**	139	17	12,2	2 (low)
16	3-11-37*	200	20	10,0	1 (too low)
17	1-1-35**	139	110	79,1	5 (very high)
18	1-1-41**	270	87	32,2	3 (middle)
19	1-1-44**	96	62	64,6	4 (high)
20	1-2-5**	166	5	31,1	1 (too low)
21	1-2-11**	190	19	10,0	1 (too low)
22	1-1-1**	197	37	18,8	2 (low)
23	1-2-27**	260	123	47,3	3 (middle)
24	1-1-42**	138	51	36,9	3 (middle)
25	2-4-25**	200	118	59,0	4 (high)
26	1-2-26**	200	75	37,5	3 (middle)
27	1-2-17**	95	3	3,2	1 (too low)
28	Shalakh apricot*	49	11	22,4	2 (low)
29	Apricot from Kherson	880	196	22,3	2 (low)
30	Apricot (mix of cultivars)*	112	13	11,6	2 (low)
31	Peach*	200	39	19,5	2 (low)
32	Almond*	200	133	66,5	4 (high)
33	ALycha Stock yellow*	200	31	15,5	2 (low)
34	ALycha 61-88 st.*	200	10	5,0	1 (too low)
35	ALycha 7-1-4-38 st.*	200	64	32,0	3 (middle)
36	ALycha Pissardi Large-fruited*	200	44	22,0	2 (low)

*Seed stocks, bred in Nikita Botanical Gardens

**Seed stocks bred in Botanical Gardens of Dnepropetrovsk National University.

Table 2

**Seed germinating capacity of drupaceous cultures in Steppe branch of Nikita Botanical Gardens
(November the 9th 2011)**

№	Stock, Selective form	A number of seeds, units		Seed germinating capacity	
		sowed	germinated	%	point, (5-points scale)
1	1-1-1**	269	125	46,5	3 (middle)
2	1-1-35**	189	107	56,6	4 (high)
3	1-1-42**	102	47	46,1	3 (middle)
4	1-2-26**	616	331	53,7	4 (high)
5	1-2-27**	112	12	10,7	2 (low)
6	1-2-33**	267	49	18,4	2 (low)
7	1-3-2**	57	7	12,3	2 (low)
8	2-01-13**	133	23	17,3	2 (low)
9	2-02-4**	373	62	16,6	2 (low)
10	2-02-30**	135	15	11,1	2 (low)
11	2-03-3**	1070	61	5,7	1 (too low)
12	2-05-4**	102	23	22,5	2 (low)
13	2-7-10**	64	33	51,6	4 (high)
14	Peach*	238	13	5,5	1 (too low)
15	Almond*	260	239	86,6	5 (very high)

*Seed stocks, bred in Nikita Botanical Gardens

**Seed stocks bred in Botanical Gardens of Dnepropetrovsk National University.

Table 3

Seed germinating capacity of drupaceous cultures in Dzhankoy IKP, village Medvedevka (January the 24th in 2014)

№	Stock, Selective form	A number of seeds, units		Seed germinating	
		sowed	germinated	%	point, (5-points scale)
1	2	3	4	5	6
1	1004-88*	260	74	28,5	3 (middle)
2	1-1-1**	327	108	33,3	3 (middle)
3	1-2-36**	40	13	32,5	3 (middle)
4	1-3-2**	42	21	50,0	3 (middle)
5	2-01-12**	73	45	61,6	4 (high)
6	2-01-13**	112	45	40,1	3 (middle)
7	2-01-15**	53	15	28,3	3 (middle)
8	2-01-16**	127	51	40,1	3 (middle)
9	2-02-2**	96	32	33,3	3 (middle)
10	2-02-8**	157	110	70,0	4 (high)
11	2-04-17**	13	5	38,4	3 (middle)
12	2-04-19**	214	92	42,9	3 (middle)
13	2-05-4**	150	60	40,4	3 (middle)
14	2-05-14**	16	9	56,2	4 (high)
15	2-06-13**	183	70	38,2	3 (middle)
16	2-06-15**	67	21	31,3	3 (middle)
17	2-06-20**	28	6	21,4	2 (low)
18	2-07-9**	94	23	24,4	2 (low)
19	10-02-27*	32	12	37,5	3 (middle)
20	171-00*	496	117	23,5	2 (low)
21	173-00*	387	116	29,9	3 (middle)
22	174-00*	200	32	16,0	2 (low)
23	Apricot*	122	42	34,4	3 (middle)
24	Sputnik 1(Stock 1) – control specimen*	28	16	57,1	4 (high)

*Seed stocks, bred in Nikita Botanical Gardens

**Seed stocks bred in Botanical Gardens of Dnepropetrovsk National University.

Analyzing eyelet (bud) establishment rate of nectarine cultivars, grafted on seed stocks of drupaceous crops in Dzhankoy IKP (table 4) it was found out that a number of selective forms (2-04-19, 2-05-14, 2-06-20 and 10-02-27) presented very high nectarine eyelet establishment, that meets control seed stock Sputnik 1. We recommend to give these stock forms widespread in nurseries of the Crimea and Dnepropetrovsk region. Currently used in nurseries of Russia and Ukraine in regions with severe ecological conditions almond seedlings as stocks are not so effective. Their root system is often subjected to freezing, what destroys nectarine and peach trees grafted on them. Absolute minimum of air temperature in different zones of the Crimea is too low – from 27-35°C below zero in the eastern piedmont zone till 31-37°C below zero in the central steppe zone of the Crimea [1].

Table 4

Eyelet establishment of the nectarine cultivars grafted on seed stocks of drupaceous crops in Dzhankoy IKP, village Medvedevka (2014)

№	Stock, Selective form	Graft, nectarine cultivar	Grafted eyelets, units	Established eyelets		
				units	%	points (5-point scale)
1	2	3	4	5	6	7

1	1004-88*	Nikitsky 85	36	16	44,4	3 (middle)
2	1004-88*	Super Creamson Gold	36	25	69,4	4 (high)
3	1-1-1**	Nikitsky 85	49	25	51,0	4 (high)
4	1-1-1**	Super Creamson Gold	49	34	69,4	4 (high)
5	1-2-36**	Nikitsky 85	5	3	60,0	4 (high)
6	1-2-36**	Super Creamson Gold	8	4	50,0	3 (middle)
7	1-3-2**	Nikitsky 85	11	5	45,5	3 (middle)
8	1-3-2**	Super Creamson Gold	8	5	62,5	4 (high)
9	2-01-12**	Nikitsky 85	26	17	65,4	4 (high)
10	2-01-12**	Super Creamson Gold	24	15	62,5	4 (high)
11	2-01-13**	Nikitsky 85	23	14	60,7	4 (high)
12	2-01-13**	Super Creamson Gold	20	13	65,0	4 (high)
13	2-01-15**	Nikitsky 85	5	2	40,0	3 (middle)
14	2-01-15**	Super Creamson Gold	10	2	20,0	2 (low)
15	2-01-16**	Nikitsky 85	23	9	39,1	3 (middle)
16	2-01-16**	Super Creamson Gold	22	14	63,6	4 (high)
17	2-02-2**	Nikitsky 85	16	9	56,3	4 (high)
18	2-02-2**	Super Creamson Gold	16	11	68,8	4 (high)
19	2-02-8**	Nikitsky 85	54	27	50,0	3 (middle)
20	2-02-8**	Super Creamson Gold	54	29	53,7	4 (high)
21	2-04-17**	Nikitsky 85	2	0	0	-
22	2-04-17**	Super Creamson Gold	3	2	66,7	4 (high)
23	2-04-19**	Nikitsky 85	49	24	49,0	3 (middle)
24	2-04-19**	Super Creamson Gold	49	39	79,6	5(very high)
25	2-05-4**	Nikitsky 85	29	17	58,6	4 (high)
26	2-05-4**	Super Creamson Gold	32	24	75,0	4 (high)
27	2-05-14**	Nikitsky 85	4	2	50,0	3 (middle)
28	2-05-14**	Super Creamson Gold	5	4	80,0	5(very high)
29	2-06-13**	Nikitsky 85	30	10	33,3	3 (middle)
30	2-06-13**	Super Creamson Gold	40	25	62,5	4 (high)
31	2-06-15**	Nikitsky 85	10	6	60,0	4 (high)
32	2-06-15**	Super Creamson Gold	11	7	63,6	4 (high)
33	2-06-20**	Nikitsky 85	2	2	100,0	5(very high)
34	2-06-20**	Super Creamson Gold	4	4	100,0	5(very high)
35	2-07-09**	Super Creamson Gold	14	10	71,4	4 (high)
36	10-02-27*	Nikitsky 85	6	4	66,7	5(very high)
37	10-02-27*	Super Creamson Gold	6	5	83,3	5(very high)
38	171-00*	Nikitsky 85	49	21	42,9	3 (middle)
39	173-00*	Super Creamson Gold	49	28	57,1	4 (high)
40	173-00*	Nikitsky 85	56	24	40,7	3 (middle)
41	173-00*	Super Creamson Gold	40	15	37,5	3 (middle)
42	174-00*	Nikitsky 85	12	7	58,3	4 (high)
43	174-00*	Super Creamson Gold	13	3	23,1	2 (low)
44	Apricot*	Nikitsky 85	22	7	31,8	3 (middle)
45	Apricot*	Super Creamson Gold	22	6	27,3	3 (middle)
46	Sputnik 1 (Stock 1) – control specimen*	Nikitsky 85	8	7	87,5	5(very high)
47	Sputnik 1 (Stock 1) – control specimen*	Super Creamson Gold	8	8	100,0	5(very high)

*Seed stocks, bred in Nikita Botanical Gardens

**Seed stocks bred in Botanical Gardens of Dnepropetrovsk National University.

Researching the nursery properties of drupaceous crops seeds it was found out that seed stocks shouldn't be considered for further investigations. Like seed stocks with low

germinating capacity mentioned above, apricot, peach and alycha with 2-3 points seed germinating capacity are possible to exclude them out of experiments (Tables 1, 3).

Conclusions

1. Investigated seed stocks of drupaceous crops in three Crimean nurseries gain a great practical importance for Russia and Ukraine, where almond stock for nectarine and peach is of little use due to low frost resistance of its root system.

2. Seed stocks of selective forms - 1-1-1, 1-3-2, 2-01-12, 2-01-13, 2-02-2, 2-05-4, 2-06-15, 2-06-20, 10-02-2 - and seed stocks for nectarine and peach – Sputnik 1 of CRBG AS USSR selection, presented a high efficiency in the Crimean nurseries, are possible to recommend for experimental studies under different soil and climatic conditions of Russia and Ukraine.

3. Seed stocks of drupaceous crops with low indices of their nursery properties are to exclude out of further investigations.

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New selective seed stocks of drupaceous cultures of the joint breeding work (Nikita Botanical Garden and botanical garden of Denpropetrovsk National University named after O. Gonchar in Dnepropetrovsk region) used for nectarine cultivation were researched. The most promising Crimean seed stocks of the following genotypes were sorted out: 1-1-1, 1-3-2, 2-01-12, 2-01-13, 2-02-2, 2-05-4, 2-06-15, 2-06-20, 10-02-27.

Key words: stock, nectarine, peach, breeding, starting material, genotype, qualities appreciated in nursery field.