

Apple cultivars of the All-Russian Research Institute of Horticultural Breeding

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The results of over semi-centennial apple breeding in the All-Russian Research Institute of Horticultural Breeding are shown. The brief descriptions of 33 apple cultivars are given, in particular 8 summer cultivars, 3 autumn ones and 22 cultivars of winter maturing. Most cultivars have been included into the State Register of Breeding Achievements admitted to cultivation in Russian Federation, the other are on State trials.

Key words: trees, fruit, breeding, cultivars, resistance, apple.

Introduction. The requirements to apple cultivars have increased significantly in connection with the intensification of horticulture. Many old middle Russian cultivars of folk selection, cultivars of I. V. Michurin and his followers I. S. Gorshkov, S. F. Chernenko, S. I. Isaev, S. P. Kedrin and others played their important part in assortment and creating new cultivars.

In the central part of Russia the All-Russian Research Institute of Horticultural Breeding (VNIISPK) (former Orel zone fruit-berry experiment station) is the basic supplier of new apple cultivars corresponding to the modern requirements. The Institute is the oldest pomological institution of Russia, and in 2005 it celebrated its 160 th anniversary. The cultivars developed in this Institute are the base of the regionalized apple assortment in the Central-Chernozem area (Belgorod, Voronezh, Kursk, Lipetsk, Orel, Tambov and other regions), Central area (Bryansk, Kaluga, Moscow, Ryazan, Tula and other regions) and some other regions and areas of Russia (Sedov, Krasova, 2000; Sedov, 1999; Sedov et al., 2004; Sedov, 2005, 2006 a, 2006 b, 2007 a, 2007 b, 2007 c).

Some of the cultivars have been already regionalized in Byelorussia, Kirghizia, Baltic countries. In the Central-Chernozem area of Russian Federation over 50 % cultivars of All-Russian Research Institute of Horticultural Breeding breeding are included in the State register of breeding achievements admitted for cultivation (Sedov, 2005).

Old middle Russian cultivars of folk selection ('Antonovka', 'Papirovka', 'Skryzhapel', 'Babushkino' and others), cultivars of I. V. Michurin and his followers,

North-American and Canadian cultivars having a number of valuable commercial and biological qualities were widely used as parent forms in developing new cultivars.

Among apple cultivars developed in All-Russian Research Institute of Horticultural Breeding, 51 cultivars are passing the State trials, 35 of them have been already included in the State register of breeding achievements (regionalized).

It is necessary to note that 15 first home immune to scab apple cultivars are included in the regionalized assortment.

Among the new cultivars there are both early maturing ones and cultivars of late maturing with fruit consumption period up to 7–8 months.

The selection of cultivars with different dates of maturing gives an opportunity to create a distinctive apple calendar of fruit consumption all the year round (Sedov, 2006; Sedov, 2007 a, 2007 b).

In the present paper we want to describe briefly 33 best cultivars of All-Russian Research Institute of Horticultural Breeding breeding, including 8 summer cultivars, 3 autumn ones, 22 immune to scab winter cultivars.

Object, methods and conditions. The objects of observation and study were new apple cultivars of All-Russian Research Institute of Horticultural Breeding breeding. The generally accepted methods described in the book “Program and methods of variety investigation of fruit, berry and nut crops”, (Sedov, 1999), were used.

Results and discussion. Summer cultivars. ‘Augusta’ (‘Orlik’ × ‘Papirovka tetraploidnaya’). The cultivar has a triple set of chromosomes (triploid). It has been selected for high marketability and good taste of fruit. Authors – E. N. Sedov, Z. M. Serova, G. A. Sedysheva, E. A. Dolmatov. The cultivar is included in the State register in 2008 for the Central-Chernozem area.

The fruits are of late summer maturing, beyond medium size (165 g), oblong, conic, broad-ribbed. The skin color is with washed red flush. The fruit look very smart. The flesh is greenish, middle dense, tender, juicy, with sour-sweet pleasant taste and light flavour.

The picking ripening begins on the 20th of August. The consumption period lasts till late September. The cultivar is resistant to scab; the yield capacity is high.

‘Daryona’ (‘Melba’ × ‘Papirovka tetraploidnaya’). The cultivar is triploid. It is selected for stable fruiting, scab resistance and nice marketable fruit. Authors – E. N. Sedov, Z. M. Serova, G. A. Sedysheva, E. A. Dolmatov. The cultivar is passing the State trials.

The fruits are of medium and beyond medium size (150–170 g), oblong, broad-ribbed. The skin color is with flush and red speckles. The flesh is white, greenish, and juicy, with good taste. For the appearance the fruit are estimated as 4.5 mark and for the taste as 4.3 (according to 1–5 scale).

The picking ripening begins in the second half of August. The consumption period lasts till late September.

‘Maslovskoye’ (‘Redfree’ × ‘Papirovka tetraploidnaya’). The immune to scab, triploid summer cultivar has been developed as a result of the joint work of the All-Russian Research Institute of Horticultural Breeding and the North-Caucasus Zonal Research Institute of Horticulture and Vine Growing. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, G. A. Sedysheva, L. I. Dutova, T. V. Ragulina. The cultivar is passing the State trials.

The trees are vigorous with round crown.

The fruits are large (230 g), flat, broad-ribbed. The skin is greenish-yellow with pink speckles on less part of fruit. The appearance and taste are estimated as 4.3.

The picking ripening under conditions of Orel region begins on 7 th and lasts till 16 th of August; it is for 5–7 days later than ‘Papirovka’. The cultivar is precocious and productive.

‘Orlinka’ (‘Stark Earliest Preco’s × ‘Perviy salut’). Authors – E. N. Sedov, Z. M. Serova, N. G. Krasova. The cultivar is regionalized in the Central-Chernozem area.

The trees are vigorous with round crown. The prevailing type of fruit formations is simple and complex fruit-bearing spurs. The cultivar is precocious, productive with fruit of high quality. It exceeds ‘Melba’ in winter-hardiness and scab resistance.

Fruits are of medium size (140 g), shape flat to intermediate, conic. Skin is with brightly red stripes and washed flush. Flesh is cream, dense, and very juicy, with pleasant taste and strong flavour. Mark 4.3 for fruit appearance and taste.

The picking ripening under conditions of Orel region begins in late August, fruit consumption lasts till late September.

‘Orlovim’ (‘Antonovka obyknovennaya’ × SR 0523). This cultivar is relatively resistant to scab (with gene V_m). Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov. The cultivar is regionalized in the Central area of Russia.

Trees are medium vigorous, winter-hardy and with broom-like crown. The cultivar is precocious and productive.

The fruits are of medium and beyond medium size, shape flat to intermediate, conic, slightly ribbed. The skin is with brightly red stripes and washed flush. The flesh is cream, dense, crisp, very juicy, sour-sweet and with strong flavour. Appearance is estimated 4.3–4.4, taste – 4.5.

The picking ripening under conditions of Orel region begins in the middle of August, fruit consumption lasts till the middle of September.

‘Ranneye Aloye’ (‘Melba’ × ‘Papirovka’). Regionalized in the Central-Chernozem area. Authors – E. N. Sedov, N. G. Krasova, Z. M. Serova, M. V. Mikheyeva, T. A. Trofimova.

Trees are quick-growing, with round crown, winter-hardy.

Fruits are of medium size (130 g), round, truncated, large-ribbed. The skin is with dark-red deep flush and stripes. The flesh is white, slightly cream, tender, small-grained, and juicy. Appearance is estimated 4.5, taste – 4.4.

The picking ripening under conditions of Orel region begins in early August, fruit consumption lasts from early August till September.

The cultivar is precocious and productive. Resistance to scab is medium.

‘Jubilar’ (814 – open pollination). Regularly fruiting, triploid, immune to scab (with gene V_p). Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, G. A. Sedysheva. The cultivar is passing the State trials. The fruits are of medium size (130 g), flat and conic. The skin is covered with crimson strokes and speckles on less part of a fruit. The flesh is cream, small-grained, and juicy. Appearance is estimated 4.5, taste – 4.4. Fruit consumption lasts from early till late September. The yields are high and regular; the trees are winter-hardy enough.

‘Jablotchniy spas’ (‘Redfree’ × ‘Papirovska tetraploidnaya’). Triploid, immune to scab (gene V_p) apple cultivar was obtained from the crossing made in Krasnodar (the North-Caucasus Zonal Research Institute of Horticulture and Vine Growing). The following breeding stages were conducted in Orel (All-Russian Research Institute of Horticultural Breeding). Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, G. A. Sedysheva, L. I. Dutova, T. V. Ragulina. The cultivar is passing the State trials.

Trees are quick growing, with round crown of medium thickness.

The fruits are large (214 g), round-conic, truncate. Skin is greenish-yellow with crimson stripes on less part of a fruit.

The picking ripening under conditions of Orel region begins several days earlier than ‘Papirovska’ – in August 8–17. Fruit consumption lasts till late September. The cultivar is precocious and productive.

Autumn cultivars. ‘Orlovskoye polosatoye’ (‘McIntosh’ × ‘Bessemianka michurinskaya’). It is regionalized in the Central, Central-Chernozem and Middle Volga areas. Authors – E. N. Sedov, T. A. Trofimova.

Trees are of medium vigour, with round crown, winter-hardy enough in conditions of Orel and neighbour regions. The cultivar is comparatively precocious and resistant to scab.

The fruits are of medium and beyond medium size (140–155 g), oblong, of round-conic shape. The skin is with bright washed stripes and speckles of intensive purple-crimson color on pink flush. The flesh is white with cream tint, small-grained, tender, and very juicy; the taste is harmonious with perceptible sourness and strong flavour. Appearance is estimated 4.6; taste – 4.3–4.4. At the International exhibitions in Germany the cultivar was twice granted golden medals (in 1977 and 1984).

The picking ripening begins in early September; the shelf life of fruit lasts till late December.

‘Pamyat Isaeva’ (‘Antonovka krasnobochka’ × SR0523). This cultivar is immune to four (from five) scab races (gene V_m). Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, Ju. I. Khabarov. The cultivar was included in the State register in 2008. The fruits are of medium and beyond medium size (140–160 g). The skin is with stripes and washed flush on half or less part of a fruit. The flesh is cream, dense, and juicy. Appearance is estimated 4.5, taste – 4.3. Shelf life lasts till the middle of December.

‘Solnyshko’ (814 – open pollination). Productive cultivar is immune to scab (with gene V_f). Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, E. A. Dolmatov. The cultivar is regionalized in the Central-Chernozem area.

The trees are of medium size with round crown. The bark is smooth and brown. The shoots are comparatively thick, cranked and bow-shaped.

The fruits are of medium size (150 g), oblong, wide-ribbed, truncate. The skin is brightly flushed crimson. The flesh is white, cream, dense, small-grained, and very juicy. Appearance is estimated 4.4, taste – 4.3–4.4. Fruit consumption lasts from early October till December.

Winter cultivars. ‘Afrodita’ (814 – open pollination). Immune to scab (gene V_p). Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, E. A. Dolmatov. The cultivar is regionalized in the Central-Chernozem area.

The trees are large, quick growing with round crown. The bark is smooth and

greenish-brown. Shoots are thin and bow-shaped. The fruits are of medium size (125 g), with washed crimson flush, stripes and speckles. The flesh is white with pink veins, juicy. According to the appearance and taste fruits are estimated 4, 4. Scab immunity, precociousness, attractive fruit with dessert quality are the advantages of the cultivar. Fruit picking begins in the second half of September, the shelf life lasts till late December.

‘Bezhin lug’ (‘Severny sinap’ × ‘Wealthy tetraploidny’). Triploid cultivar has been selected for high resistance to scab, regular fruiting and high fruit quality. Authors – E. N. Sedov, Z. M. Serova, G. A. Sedysheva, E. A. Dolmatov, V. I. Pavluk. The cultivar is passing the State trials.

The trees are large and quick growing. The fruits are of beyond medium size, oblong, wide-ribbed. The skin is with washed crimson flush on half of a fruit. The flesh is greenish, tender, small-grained, and juicy; the taste is sour-sweet with light flavour. Appearance is estimated 4.4, taste – 4.3.

The picking ripening begins in the middle of September. Fruit consumption lasts from early October till late December. The cultivar is comparatively resistant to scab.

‘Bolotovskoye’ (‘Skryzhapel’ × 1924). Scab immune cultivar. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, Ju. I. Khabarov. The cultivar is regionalized in the regions of the Central and Central-Chernozem area.

The trees are over medium with round crown. The advantages of the cultivar are: scab immunity, productivity, winter maturing, high marketable fruit qualities. The disadvantage is in fruit falling off when the picking is late.

The fruits are of beyond medium size (155 g), flat, wide-ribbed. The skin is flushed with red stripes and speckles. The flesh is greenish, dense, juicy and of sour-sweet taste.

The picking ripening begins in early September. The shelf life lasts till late January.

‘Veniaminovskoye’ (814 – open pollination). Scab immune cultivar. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, E. A. Dolmatov. The cultivar is regionalized in the Central-Chernozem area.

The trees are large with round crown. The fruiting is concentrated on simple and complex fruit-bearing spurs. The advantages: scab immunity (gene V_p), winter-hardiness, marketable fruits of dessert quality. The fruits are of medium size (130 g), conic. The skin is with crimson flush. The flesh is white, greenish, dense and juicy. Appearance and taste – are estimated 4.4.

The picking ripening begins in the middle of September. Fruit consumption lasts from middle October till late February.

‘Veteran’ (‘King’ – open pollination). Authors – E. N. Sedov, N. G. Krasova, M. V. Mikheeva. The cultivar is regionalized in the Central, Central-Chernozem and Middle Volga areas.

The trees are of medium size with globe-shaped compact crown. The fruiting type is mixed. The shoots are thin enough and dark brown. Under conditions of Orel region the cultivar is moderately winter-hardy, with high precocity and productivity. It is relatively resistant to scab.

The fruits are of medium size (130 g), slightly conic in the upper part. The skin is covered with orange-pink stripes and speckles. Appearance and taste are estimated 4.4. The fruits content high quality of ascorbic acid (20.2 mg/100 g). The shelf life is till the middle of March.

‘Ivanovskoye’ (‘Wealthy’ × ‘Prima’). This immune to scab (gene V_p) cultivar bears fruits of high marketability and dessert taste. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, E. A. Dolmatov. The cultivar is passing the State trials in the Central-Chernozem area.

The trees are of medium vigor with round and moderately thick crown. The shoots are thick, straight and of dark cherry color.

The fruits are of beyond medium size (160 g), round-conic shape. The skin is washed crimson. Subcutaneous dots are multiple, green and well visible. The flesh is cream with dessert sour-sweet taste. Appearance and taste are estimated 4.4. Fruit consumption lasts from the middle of October till late January. The cultivar is good for cultivating in the intensive orchards.

‘Imrus’ (‘Antonovka obyknovennaya’ × OR 18T13). This cultivar is immune to scab (gene V_p). Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, Ju. I. Khabarov. The cultivar is regionalized in the Central and Central-Chernozem areas.

The trees are of medium vigor, winter-hardy enough, productive and precocious.

The fruits are of medium size (140 g), flat, conic and ribbed. The skin is with washed flush, stripes and strokes of brownish-red color at the moment of picking and crimson at the consumption period. The flesh is creamy, dense, juicy and sour-sweet. The appearance is estimated 4.3 and taste – 4.3–4.4. The shelf life is till late February – the middle of March.

‘Kandil orlovskiy’ (1924 –open pollination). This is precocious and productive, immune to scab (with gene V_p) cultivar. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, E. A. Dolmatov. The cultivar is regionalized in the Central-Chernozem area.

The fruits are of medium size (140 g), oblong-conic (‘Kandils’ shape), truncate, ribbed. The skin is covered with beautiful washed crimson flush on half or more part of a fruit. The flesh is white, greenish, tender, small-grained and juicy. Appearance and taste are estimated 4.4. Fruit picking begins in the middle of September, the shelf life lasts till February.

‘Kulikovskoye’ (‘King’ – open pollination). Authors – E. N. Sedov, N. G. Krasova, M. V. Mikheeva. The cultivar is regionalized in the Central, Central-Chernozem and Middle Volga areas.

The trees are of medium vigor with round crown, comparatively winter-hardy. The prevailing types of fruit formation are fruit-bearing spurs and fructiferous shoots. The cultivar is precocious and productive, resistant to scab.

The fruits are of medium size (130 g), round, without ribs, marketable. The skin is with stripes and washed purple flush. The appearance is estimated 4.4 and taste – 4.3. The shelf life lasts till late March.

‘Kurnakovskoye’ (814 × PA-29-1-1-63). This is immune to scab cultivar. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, E. A. Dolmatov. The cultivar is regionalized in the Central-Chernozem area.

The trees are of medium vigor with pyramidal and moderately thick crown. Advantages: scab immunity, productivity, high marketable fruit qualities.

The fruits are of medium size, oblong-conic, weakly ribbed, truncate on the top. The skin is covered with pink stripes. The flesh is creamy, dense, and small-grained, with light flavour. Appearance and taste are estimated 4.3.

The picking ripening begins in late September. Fruit consumption lasts from October till the middle of February.

‘Olimpiyskoye’ (‘McIntosh’ – open pollination). Authors – E. N. Sedov, N. G. Krasova, M. V. Mikheeva. The cultivar is regionalized in the Low Volga area.

The trees are of medium vigor with round crown, winter-hardy enough in conditions of Orel. The cultivar is precocious and productive, moderately resistant to fruit and leaf scab.

The prevailing types of fruit formation are simple and complex fruit-bearing spurs and short and long fructiferous shoots.

The fruits are of medium size (130 g). The skin is covered with washed stripes of brownish-red color. The flesh is greenish, tender, small-grained, and juicy with pleasant taste. The appearance is estimated 4.3 and taste – 4.2. The shelf life lasts till February.

‘Orlik’ (‘McIntosh’ × ‘Bessemyanka michurinskaya’). The precocious and high productive winter cultivar is of special interest for gardeners. It is regionalized in the North West, Central and Central-Chernozem areas. Authors – E. N. Sedov, T. A. Trofimova.

The trees are of medium vigor, with round compact crown. The prevailing types of fruit formation are simple and complex fruit-bearing spurs. The shoots are thick, straight, strongly downy.

The fruits are of medium size (120 g), weakly flat, weakly conic, with several illegibly expressed large ribs. The skin is fully covered with merging stripes and washed dense flush of red color. The flesh is cream with greenish tint, dense, small-grained, and very juicy with sour-sweet harmonious dessert taste and strong flavour. Appearance and taste are estimated 4.4–4.5. The shelf life lasts till February.

The cultivar is winter-hardy and moderately resistant to scab.

‘Orlovskoye polesye’ (814 – open pollination). This is immune to scab (with gene V_p) cultivar. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, E. A. Dolmatov. The cultivar is regionalized in the Central-Chernozem area.

The trees are of medium vigor. The prevailing types of fruit formation are simple and complex fruit-bearing spurs. Advantages: scab immunity and attractive marketable fruits.

The fruits are of medium size (120 g), oblong-conic, wide-ribbed, truncate. The skin is covered with red stripes and speckles. The flesh is white, creamy, dense and very juicy. The appearance is estimated 4.4 and taste – 4.3. The shelf life lasts till the middle of January.

‘Pamyat voinu’ (‘Wealthy’ × ‘Antonovka obyknovennaya’). Cultivar is regionalized in the Central-Chernozem area. Author – E. N. Sedov. The cultivar is resistant to scab and has high consumers’ fruit qualities.

The trees are vigorous, moderately winter-hardy. When young the crown is inversely pyramidal and in the fruiting period it is globe-shaped.

The fruits are of medium size (140 g), the shape is correct and slightly flat with weakly expressed ribs. The skin is covered with stripes and speckles of beetroot-red color. The flesh is white with greenish tint, sometimes with pink veins, tender, juicy with good taste. Appearance and taste are estimated as 4.4.

The picking ripening of fruit under conditions of Orel region begins in the middle of September. The consumption period lasts from October till late January. The cultivar is characterized with good and regular productivity, resistance to leaf and fruit scab.

‘Pamyat Semakinu’ (‘Wealthy’ × 11-24-28). Triploid cultivar. Authors – E. N. Sedov, Z. M. Serova, N. G. Krasova, G. A. Sedysheva. The cultivar is regionalized in the Central-Chernozem area.

The trees are large, quick-growing, with round thin crown. The prevailing types of fruit formation are simple and complex fruit-bearing spurs and fructiferous shoots. Advantages: precocity, high and regular productivity, scab resistance.

The fruits are of beyond medium size (160 g), one-sized, flat, wide-ribbed, truncate and attractive. The skin is covered with red stripes. The flesh is greenish, small-grained, and juicy. The appearance is estimated 4.5 and taste – 4.2.

The shelf life lasts till the middle of February.

‘Pamyati Hitrovo’ (OR18T13 – open pollination). This is immune cultivar. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, E. A. Dolmatov, A. N. Borodina, V. I. Pavluk. The cultivar is regionalized in the Central-Chernozem area.

The trees are medium, quick growing. Advantages: scab immunity, regular fruiting, high marketable and consumers’ fruit qualities.

The fruit are of beyond medium size (160 g), flat, conic, ribbed. The skin is with brightly red flush and speckles. The flesh is white, creamy, and juicy with light flavour. Appearance and taste are estimated as 4.3 marks. The consumption lasts from October till late February.

‘Rozhdestvenskoye’ (‘Wealth’y × BM 41497). This is immune to scab cultivar. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, E. A. Dolmatov, G. A. Sedysheva. The cultivar is regionalized in the Central-Chernozem area.

The trees are medium, quick growing with wide-pyramid crown. The prevailing type of fruit formation is simple and complex fruit-bearing spurs. Advantages: scab immunity, precocity, high productivity and keeping quality of fruit and also attractive fruits with dessert taste.

The fruits are of medium size (140 g), flat, with visible large ribs. The skin is covered with red washed flush and speckles of cherry color. The flesh is white, creamy, dense, and very juicy; the taste is dessert with light flavour. Appearance and taste are estimated as 4.4 marks.

The consumption lasts till late January.

‘Svezhest’ (‘Antonovka krasnobochka’ × PR12T67). This is productive and very precocious immune to scab (gene V_p) cultivar. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov. The cultivar is regionalized in the Central-Chernozem area.

The fruits are of medium size (140 g), flat, barrel-like, wide-dig, the shape is correct. The skin is covered with red strokes and stripes. The flesh is greenish and small-grained. The appearance is estimated 4.3 and taste – 4.2–4.3. The consumption lasts from November till May and sometimes longer.

‘Sinap orlovski’ (‘Severniy sinap’ × ‘Pamyat Michurina’). This is precocious cultivar with high marketable fruit. The cultivar is regionalized in the Northwest, Central, Central-Chernozem and Middle Volga areas. Authors – E. N. Sedov, V. K. Zayets, N. G. Krasova, T. A. Trofimova.

The trees are vigorous, winter-hardy, with widespread crown. The fruits are of medium or beyond medium size (140–155 g), oblong, round-conic, with obtuse ribs, usually truncate at the top. The skin is covered with washed tender-pink flush only on the sunny side. The flesh is greenish-cream and very juicy; the taste quality is high. The appearance is estimated 4.3 and taste – 4.4–4.5.

The cultivar is comparatively resistant to scab. The consumption period lasts from November till May. The cultivar is precocious with stable yields each year.

‘Start’ (814 × ‘McIntosh tetraploidniy’). This is immune to scab cultivar. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, E. A. Dolmatov. The cultivar has been included in the State register in the Central-Chernozem area.

The trees are of medium vigor with round crown. The cultivar is productive and winter-hardy enough. The fruits are of medium size (140 g), oblong, wide-ribbed, truncate. The skin on less part of a fruit is covered with washed stripes and speckles of brick-red color. The flesh is white, greenish, dense, crisp, coarse, and juicy. Appearance and taste are estimated as 4.3.

The consumption period lasts from the middle of October till the middle of February.

‘Stroevskoye’ (814 – open pollination). This is immune to scab (gene V_p) cultivar. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, E. A. Dolmatov. The cultivar has been included in the State register in the Central-Chernozem area.

The trees are of medium vigor with wide-pyramid crown; the prevailing type of fruit formation is fruit-bearing spurs and sprouts. Advantages: scab immunity, marketable fruit of winter maturing with dessert taste.

The fruits are of medium size (120 g), flat, and conic, slightly ribbed. The skin is covered with merging stripes and washed flush of crimson color. The flesh is white, greenish, firm, and juicy. The consumption period lasts from the middle of October till late February. The appearance is estimated 4.5 and taste – 4.4.

‘Jubiley Moskvyy’ (814 – open pollination). This is immune to scab cultivar. Authors – E. N. Sedov, Z. M. Serova, V. V. Zhdanov, E. A. Dolmatov. The cultivar has been included in the State register for the Central-Chernozem area.

The trees are quick growing, of medium vigor, with round crown. The fruits are of medium size (130 g), oblong-conic, wide-ribbed, slightly truncate. The flesh is covered with bright flush of crimson color. The flesh is white, greenish, firm, crisp, and coarse. Appearance and taste are estimated 4.3.

The cultivar is productive, moderately winter-hardy. The consumption period lasts from the middle of October till late February.

Conclusion. The developed cultivars including first home immune cultivars (with gene V_p) are of great interest and will take a deserved place in commercial orchards and private gardens of farmers.

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Visos Rusijos sodo augalų selekcijos tyrimų instituto obelų veislės

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Santrauka

Straipsnyje pateikiami daugiau kaip pusės šimtmečio Visos Rusijos sodo augalų selekcijos tyrimų instituto obelų veislių kūrimo rezultatai. Pateikti trumpi 33 obelų veislių – 8 vasarinių, 3 rudeninių ir 22 žieminių – aprašymai. Daugelis šių veislių įtrauktos į valstybinį Rusijos Federacijos veislių kūrimo registrą, kai kurių iš jų tyrimus remia valstybė.

Reikšminiai žodžiai: vaismedžiai, vaisiai, veisimas, veislės, atsparumas, obelys.