PROMISING APPLE CULTIVARS
DEVELOPED AT THE CENTRAL SIBERIAN BOTANICAL GARDEN

Description

**Cultivar “Divo”**, a crossing between crab apple “Skalepovka” and large-fruited cultivar “Naliv beliy”, is a small tree with compact, medium-dense crown. The cultivar is medium-winterhardy and relatively resistant to scab. Annual fruitage starts at the age of five, yield being 180-300, up to 500 centner/ha. Fruits are flat-rounded, dark red, 25-33 g, and rich in vitamins. Flesh is white, very juicy, sour-sweet tasting, aromatic, without acerbity. Fruits ripen in late August and keep until October. They are used raw and preserved.

**Cultivar “Baganyonok”** is a crossing between large-fruited cultivar “Sibirskaya krasavitsa” and Malus baccata released for cultivation in the Khabarovsk Krai. The tree is 4-5 m high, with broad-pyramidal medium-size crown. The high-productive cultivar is highly winterhardy, relatively scab resistant, begins fruiting at the age of 4. Average yield is 188-256, maximum –865 centner/ha. Fruits are elliptical, greenish-yellow with intense red erubescence along the whole fruit, 20-35 g, and rich in vitamins. Flesh is yellow, dense, not juicy, sour-sweet tasting, strongly aromatic. Fruits ripen in mid-September and keep until December. They are used raw and preserved.

**Cultivar “Palmetta”** is a crossing between large-fruited cultivar “Belfler-kitaika” and Malus baccata released for cultivation in the Novosibirsk Oblast. Tree is medium size, with compact, rounded-drooping, medium-dense crown. The cultivar is highly winterhardy, relatively resistant to scab, begins fruiting at the age of 3. Average yield is 200-300 centner/ha. Fruits are light yellow with crimson erubescence, 25-33 g on the average - up to 40 g, rich in vitamins. Flesh is juicy, sour-sweet tasting and spicy. Fruits ripen in early September and keep until late October. They are used raw and preserved.

**Cultivar “Sibirskiy souvenir”** (see photo below) is a crossing between large-fruited cultivar “Grushovka moskovskaya” and Malus baccata, very ornamental, released for cultivation in the Novosibirsk Oblast. The medium-size trees have rounded, medium-dense crown. The cultivar is highly winterhardy, begins fruiting at early age, high yielding (177-282, up to 500 centner/ha) and scab resistant. Fruiting is annual. Fruits are ellipse-shaped, in bouquet or cluster, main color is yellow, integumentary is bright red or orange, rich in vitamins. Pink-cream medium-dense flesh is juicy, sour-sweet tasting, with light aroma. Fruits ripen in early September and keep until October. They are used raw and preserved.

**Cultivar “Kulundinskoye”**, a crossing between large-fruited cultivar “Naliv beliy” and Malus baccata, was obtained for cultivation in the Novosibirsk Oblast. Tree is medium size with compact medium-dense crown. The cultivar is highly winterhardy, begins fruiting at early age, high yielding (200-388, up to 600 centner/ha) and scab resistant. Fruits are
greenish-yellow, with dark pink erubescence, sour-sweet tasting, a little bit bitter, 27-30 g - up to 54 g, rich in vitamins. They ripen in early September and keep until November. They are used raw and preserved.

**Cultivar “Alenkiy tsvetochek”,** a crossing between crabapples “Kiselyovka” and “Pepin shafranniy”, is a small compact tree. The cultivar is medium winterhardy, scab resistant, begins fruiting at the age of 4. Average yield is 74-160 centner/ha. Fruits are dark pink, 20-33 g, rich in vitamins. Flesh is juicy, sour-sweet tasting. Fruits ripen in late August – early September and keep until January. They are used raw and preserved.

**Cultivar “Sibirskiy roumyanets”,** a crossing between “Anis alyi” and “Ranetka purpurovaya”, a small tree with compact medium-dense crown. The cultivar is distinct by thin flexible branches that are bend with ripening weight. It is medium-hardy, of great regenerative ability, scab resistant. Yield is 138-167 and up to 266 centner/ha. Fruiting is annual. Fruits are with dark-crimson erubescence, 30-43 g, and rich in vitamins. Flesh is white, juicy, sour-sweet tasting. Fruits ripen in late August and keep until October. They are used raw and preserved.

**Cultivar “Maryino”** is a crossing between selected seedling N7 and “Pepinka litovskaya”. Tree is medium size, with broad pyramidal medium-dense crown. The cultivar is winterhardy, scab resistant, begins fruiting at the age of 5-6. Average yield is 200, maximum – 555 centner/ha. Fruits are bright red, 20-35 g, rich in vitamins. Flesh is white, juicy, sour-sweet tasting. Fruits ripen in late August-early September and keep until late October. They are used raw and preserved.

**Cultivar “Veselovka”** (see photo below) is a crossing between large-fruited cultivar “Sibirskaya krasavitsa and Malus baccata released for cultivation in the Novosibirsk Oblast. Tree is medium size with rounded medium-dense crown. The cultivar is highly winterhardy, scab resistant, begins fruiting at the age of 4, high productive (multi-year average yield is 222, maximum – 610 centner/ha). Fruits are golden-yellow, with dark-crimson erubescence, 20-35 g, and rich in vitamins. Flesh is medium-dense, juicy, sour-sweet tasting. Fruits ripen in early September and keep until November. They are used raw and preserved. No agar-agar is needed to make jelly.

**Technical appraisal and economic benefits**

Almost all apple cultivars developed at the Central Siberian Botanical Garden SB RAS are highly winterhardy, high yielding, begin fruiting at early age, fruits are rich in vitamins. The cultivars are promising for commercial growing and breeding.
**Application areas**
Horticulture, food industry.

**Development stage**
Saplings of the apple cultivars are cultivated in the regions with severe climate conditions, Tyumen and Tomsk Oblasts. Negotiations on testing the cultivars in Northern China are carried on. Tests in Yunnan Province of China are underway.

**Patent situation**

**Commercial offers**
Contract for production of saplings; contract for further research and development of new cultivars; services in cultivar testing.

**Estimated Cost**
8 US$ per sapling.

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