Variety		Russian varieties - FGUP Bakczarskoje						Canadian varieties - University of Saskatchewan					American varieties - Berries Unlimited			
		JUGANA	**VOSTORG** (Delight)	**SINIJ UTES** (Blue Rock) **CPVO protected**	**CANDY BLUE** (Lawina) **CPVO protected**	**USLADA** (Pleasure)	**USSULGA**	**AURORA**	**HONEYBEE**	**BOREAL BEAUTY** **CPVO protected**	**BOREAL BEAST** **CPVO protected**	**BOREAL BLIZZARD** **CPVO protected**	**BLUE BANANA**	**BLUE TREASURE**	**GIANT'S HEART**	**STRAWBERRY SENSATION**
PLANTING	**when planted**	**11 / 2015**	**11 / 2015**	**11 / 2017**	**11 / 2017**	**11 / 2017**	**08 / 2018**	**11 / 2015**	**11 / 2015**	**11 / 2017**	**11 / 2017**	**11 / 2017**	**08 / 2018**	**08 / 2018**	**08 / 2018**	**08 / 2018**
	pot size	C 3,5	C 3,5	M-40	M-40	M-40	C 5	C 3,5	C 3,5	M-40	M-40	M-40	C 5	C 5	C 5	C 5
PLANT	**height [m] - 2019**	1,70	1,30	0,80	0,70	0,70	0,70	1,50	1,50	0,80	1,00	0,60	0,70	0,65	0,75	0,70
	height [m] - 2020	1,80	1,40	1,00	1,00	1,00	1,00	1,70	1,70	1,00	1,15	0,70	0,90	0,90	1,10	0,90
	height [m] - 2021	2,00	1,60	1,10	1,20	1,20	1,10	1,80	1,90	1,40	1,50	1,20	1,10	1,30	1,60	1,10
	habit	upright, columnar, strong, fast growing	spherical, branches thin, flexible, a shrub of rather loose habit	spherical, compact, very strong, so far slow growing	upright, columnar, medium strong	upright, columnar, medium strong	upright, columnar, medium strong	thick stems, compact bush with erect habit	extremely vigorous grower, the fastest growing variety, very dense	rather spherical, dense, branches strong, stiff - in spring, the young stems are very brittle and they break very often	columnar, very strong, dense	round, compact, very dense	strong, stiff branches, dense, upright, dense foliage covers fruits	very strong, stiff, loose skeleton stems, lots of short, dense, side branches	upright, stiff stems, many vertical stems from the base, soon will be too dense, will need thinning; the strongest of four American varieties being tested	very vigorous bush, dense, upright, stems thin, strong, forms very dense leaf canopy
BERRIES	**average weight [g]** **2018**	1,60	2,10	1,70				2,10	1,90							
	2019	1,40	1,90	1,50				1,90	1,70							
	2020	1,40	1,90	1,60	1,50	1,30	1,30	1,75	1,20	2,00	1,70	2,70	1,20	2,80	2,20	2,00
	2021	1,40	1,90	1,60	1,50	1,30	1,20	1,90	1,40	1,90	1,60	2,50	1,40	2,60	2,20	2,10
	max. weight [g] **2018**	1,90	2,90	2,40				2,50	2,30							
	2019	1,70	2,60	2,20				2,30	2,00							
	2020	1,60	2,40	2,00	2,00	1,60	1,70	2,10	1,40	2,40	2,00	3,20	1,60	3,20	2,80	2,30
	2021	1,60	2,60	2,00	1,90	1,50	1,60	2,40	1,80	2,40	2,00	3,00	1,60	3,00	2,60	2,40
	average size [mm] **2018**	30x17x12	42x17x16	38x15x14				31x13x12	28x14x12							
	2019	28x15x10	38x15x14	34x13x12				30x13x12	25x13x12							
	2020	29x12x9	35x14x14	34x12x12	25x10x8	25x11x8	23x10x8	28x12x10	24x12x10	22x15x12	25x16x13	38x16x15	26x8x10	25x16x14	22x17x15	20x16x16
	2021	28x14x9	37x15x15	35x14x13	27x13x13	24x12x9	23x11x8	31x13x12	27x13x12	22x15x12	26x14x13	36x15x15	27x8x9	26x15x14	22x17x13	22x14x15
	Brix **2017**	14	14-16					14-15	13							
	2018	17-21	15-21	13-15				14-15	13							
	2019	13-15	13-14	12-14				11-16	11-16							
	2020	15	15	13-14	16	14-15	14,5	13-15	12	13-15	13-14	13-15	13,5	13	15	13
	2021	14-15	14-15	14	14	14	14	14-15	12-13	12-13	14	14-15	14	14	17	15
	scar	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry / wet	dry	dry	dry	dry
	shape	berries of a very regular shape, uniform size, medium size	fusiform shape, regular, uniform size	very regular in shape, uniform size, medium size berries	cylindrical, elongated, both sides of berries obtuse	fusiform shape, regular, medium, uniform size	cylindrical, elongated, both sides of berries conical	oval and elongated	cylindrical, stick strongly to their stems, remain on the bush until they get dry	short, heart-shaped, thick	elongated, heavy	fusiform-shaped to pear shaped	elongated, sharpened both sides	oval	heart shaped	round to elliptical
	taste	sweet or very sweet, one of the tastiest Russian varieties	sweet berries with the hint of acid, balanced, still the best Russian variety	sweet, delicate taste, one of the best, as early as Vostorg or even earlier	sweet, firmness very good even 3 weeks after the first berries have matured, promising	sweet, slightly tart, very pleasant, a hint of bitter aftertaste	sweet, sweet-tart, pleasant, well balanced, bilberry aftertaste	sweet	juicy and tasty, slightly tart	the taste is sour-sweet, not our favourite but people like it; the taste improves with age	pleasant taste, very mild, one of our favorite varieties in terms of taste	our favorite because of the taste! Too soft, unfortunately	sweet, crunchy	sweet and tart, butter-like texture of the berry	sweet, sweet-sour and tasty, hard skin, very good firmness	a hint of unripe strawberry taste, generally sweet and tart taste
HARVESTING DETAILS	**season**	early variety, just after Vostorg	the earliest variety	as early as Vostorg or even earlier	early but can be harvested 2-3 weeks	early, ripens with Jugana and Vostorg	latest Russian	so far, the latest, commercial variety in our conditions	ripens with Aurora, improves when with age	the latest of the Boreal group	later than B. Blizzard	the earliest of 3 Boreals, stick strongly to their stems, berries remain on the bush in good condition even for 3 weeks	the earliest in the group - begining of July	late variety - second part o July	late variety - second part o July	late variety - second part o July
	2018 **kg / bush**	0,38	0,78	0,25				0,78	0,75							
	weather	Weather in spring was very hot and dry. Harvesting season from 28th of May to 15th of June - such a narrow harvesting window can be a challenge in terms of dessert berry harvest organisation.														
	remarks							Good mechanical harvest.								
	2019 **kg / bush**	0,54	2,20	0,56				2,45	2,06							
	weather	Harvesting season from 10th to 22th of June						Harvesting season from 21th to 30th of June								
	remarks			New selection, in Russia highly appreciated. One of the bests in terms of taste, fertility in our conditions should be confirmed in the future.												
	2020 **kg / bush**	0,24	0,85	0,24	0,21	0,13	0,24	2,04	0,90	0,39	0,37	0,74	0,88	0,61	0,73	0,96
	time	Harvesting season from 1st to 12th of June						Harvesting season from 10th of June till 10th of July.					Harvesting season from 20th of June till 10th of July.			
	weather	Blooming became very early- end of march, and was stretched in time till first days of May. Spring was warm during days and wet. Cold nights - late night frost till the second half of May damaged more than 50% of berries, in coldest places - even 100%. Berries quality generally poor. Harvesting season very long - 5 weeks +														
	remarks	Until 2020 high productivity and fruit quality not confirmed. Pollination seems to be the secret of high yield.	Despite bad weather conditions quality of berries was pretty good. Yeld 50% lower than in 2019.	Despite bad weather conditions quality of berries was still good. In 2020 yield 50% lower than in 2019.	Berries do not fall down. Easy harvest. Late harvest possible. Good mechanical harvest. For further observation. Despite bad weather all berries ripen at the same time and are of very good quality.	Berries do not fall down. Easy harvest. Good mechanical harvest. For further observation.	For further observation.	In 2020 the most reliable variety. Yield only 15% less than in 2019 - because of the weather. 'Working horse'.	In 2020 yield 50% lower than in 2019 because of the weather.	The earliest matured berries fall down, but not much.	The berries remain on the bush, a bit difficult to picking, sometimes pedicel stays on the berry.	Mechanical harvest possible, harvesting window very narrow. Should be harvested just after colouration, when berries are still firm but already sweet. The most eagerly eaten and praised variety, sweet, outstanding in terms of taste. The best taste in 2020.	Easy picking. Mechanical harvesting possible. Ripe berries do not fall. For further observations.	Easy picking. Mechanical harvesting possible. Ripe berries do not fall. For further observations.	Easy picking. Mechanical harvesting possible. Ripe berries do not fall. For further observations.	Easy picking. Mechanical harvesting possible. Ripe berries do not fall. For further observations.
	2021 **kg / bush**	0,54	0,92	0,37	0,76	0,61	0,30	1,90	1,00	1,45	1,23	1,20	1,07	1,20	1,40	1,43
	tine	from 21st of June	from 16th of June	from 21st of June	from 18th of June	from 21st of June	from 25th of June	from 1st to 14th of July		24th to 28th of June	from 28th of June	from 22nd of June	1st decade of July	3rd decade of July	3rd decade of July	2nd/3rd decade of July
	weather	Weather in spring extremely wet and cold, no late frost. Blooming time till second decade of May. Ripening season delayed, stretched in time till second half of July														
	remarks	Still didn't confirm it fertility in our conditions, probably will be excluded from the group of commercial varieties recommended for Southern Poland.	Still the most reliable Russian variety. Good mechanical harvesting. In spite of bed weather conditions in spring, gave a good quality yield.	Lower yield than expected, still should be observed. Very stiff and thick, vertical stems make the bush very dense and we observed high berry loss during mechanical harvesting. Will require pruning, intensive.	Still to be observed, yield below expectation probably due to poor pollination or weather.	Still to be observed, yield below expectation probably due to poor pollination. For further observation.	Definitely too low yield, variety for further observation.	Due to cold and wet weather during blooming period, yield lower than expected. Good fruit quality, twice the mechanical harvest, reliable variety.	Definitely requires intensive pruning.	A very good mechanical harvesting in 2021, low berry loss, one harvest of a very even berries. A very good quality of mechanically harvested fruit. Taste was better than in recent years, aftertaste with a little bitterness. Definitely commercial.	Better taste than last year, sweeter berries. Good mechanical harvest. Despite bad weather, reliable, healthy and productive.	Mechanically harvested berries rather for processing (leaking and soft).	B. Beauty and B. Beast ripen in the same time. Mechanical harvest possible, however the shape of the berries is less suitable for machine harvest, compared to the berries of remaining three American varieties.	Promising variety. One of the three varieties which ripen as the latest in the season. This year we could harvest good quality berries to 25 th of July. Mechanical shaking possible. Gives berries a very good quality.	Promising variety. One of the three varieties which ripen as the latest in the season. This year we could harvest good quality berries to 25 th of July. Mechanical shaking possible. Gives berries a very good quality.	All features like Blue Treasure and Giant's Heart, the same good quality of th berries. Promising.
	remarks	Easy picking - when matured, when not ripened - shaking can be difficult. Low yield in the beginning, later fertility improves, in Bakchar the highest haskap yield ever recorded - 9 kg from 9 years old bush.	Easy picking, also mechanical harvest is easy. Number 1! Good shelf life and transportability, taste exceptionally balanced, so far the best Russian variety. In coldest areas suffers like other Russian varieties.	Easy picking, also mechanical harvest is easy.		Easy harvest. Good firmness and taste.	In spite of not very spectacular fruit size variety has important traits. Original taste, good berry quality. One harvest possible.	Generally the best quality of the berry. When soil is wet - difficult harvest.	Good mechanical harvest. Berries do not fall down. Improves with age, one of the strongest and bushiest varieties. According to Breeder's opinion and also in our conditions, a very good variety. SEVERE PRUNING NECESSARY!	The best variety of all for mechanical harvest. The most important advantage - all berries ripen evenly, berries have the same shape and even size, very good firmness.	Tasty and eagerly eaten variety, high yield, the berry quality should be confirmed. Tastes very well, firmness could be better when ripened.	Firmness could be better. Ripened the berries stay long on the bush (even 3 weeks +). Gets soft very fast. Fantastic for processing.				