

Table 1. Accounting date 4th week after planting potatoes

Accounting date 4 th week after planting potatoes (June 25, 2019)																
Experience variant	Weight, g	Stem length, cm	Root length, cm	Number of stems	Damage to stems, in points						Number of stolons			Disease prevalence	Biological efficiency	Development index
					0	1	2	3	4	5	total	painful	fallen			
"Kemerovchanin" Control	52	15,5	11	2	1	1	0	0	0	0	8	0	0			
	79	19	9,7	2	2	0	0	0	0	0	16	0	0			
	137	18,3	12	3	2	1	0	0	0	0	17	1	1			
Average by variant	89,3	17,6	10,9	2,3	1,7	0,7	0,0	0,0	0,0	0,0	13,7	0,3	0,3	28,57		5,71
"Kemerovchanin" Phytop 26.82	70	16	8	4	3	1	0	0	0	0	13	2	0			
	69	17	13,5	2	1	1	0	0	0	0	11	0	0			
	117	15	10,6	5	5	0	0	0	0	0	24	0	0			
Average by variant	85,3	16,0	10,7	3,7	3,0	0,7	0,0	0,0	0,0	0,0	16,0	0,7	0,0	18,18	36,36	3,64
"Kemerovchanin" Bactofit	120	12,7	12,2	4	4	0	0	0	0	0	20	0	0			
	118	16,2	9,8	4	4	0	0	0	0	0	21	0	1			
	95	14,3	14	4	4	0	0	0	0	0	20	0	0			
Average by variant	111,0	14,4	12,0	4,0	4,0	0,0	0,0	0,0	0,0	0,0	20,3	0,0	0,3	0,00	100,00	0,00

Table 2. Accounting date 6th week after planting potatoes

Accounting date 6th week after planting potatoes (July 10, 2019)																
Experience variant	Weight, g	Stem length, cm	Root length, cm	Number of stems	Damage to stems, in points						Number of stolons			Disease prevalence	Biological efficiency	Development index
					0	1	2	3	4	5	total	painful	fallen			
"Kemerovchanin" Control	255	40	23	5	3	2	0	0	0	0	17	0	5			
	190	40	20	4	4	0	0	0	0	0	16	1	0			
	213	36	15	2	1	1	0	0	0	0	10	0	0			
Average by variant	219,3	38,7	19,3	3,7	2,7	1,0	0,0	0,0	0,0	0,0	14,3	0,3	1,7	29,27		6,45
"Kemerovchanin" Phytop 26.82	381	44	25	5	4	0	1	0	0	0	19	0	0			
	337	42	21	5	4	1	0	0	0	0	30	0	0			
	259	45	23	3	3	0	0	0	0	0	20	0	0			
Average by variant	325,7	43,7	23,0	4,3	3,7	0,3	0,3	0,0	0,0	0,0	23,0	0,0	0,0	15,38	28,44	4,62
"Kemerovchanin" Bactofit	223	35	14	6	6	0	0	0	0	0	26	0	0			
	111	36	11	1	1	0	0	0	0	0	25	0	0			
	206	39	25	5	5	0	0	0	0	0	25	0	0			
Average by variant	180,0	36,7	16,7	4,0	4,0	0,0	0,0	0,0	0,0	0,0	25,3	0,0	0,0	0,00	100,00	0,00

Table 3. Accounting date 10th week after planting potatoes

Accounting date 10 th week after planting potatoes (August 7, 2019)																
Experience variant	Weight, g	Stem length, cm	Root length, cm	Number of stems	Damage to stems, in points						Number of stolons			Disease prevalence	Biological efficiency	Development index
					0	1	2	3	4	5	total	painful	fallen			
"Kemerovchanin" Control	621	50	22	5	2	1	1	0	0	1	36	5	4			
	475	53	23	5	3	1	0	1	0	0	31	5	3			
	406	40	20	6	0	0	0	1	4	1	27	5	8			
Average by variant	500,7	47,7	21,7	5,3	1,7	0,7	0,3	0,7	1,3	0,7	31,3	5,0	5,0	68,75		45,00
"Kemerovchanin" Phytop 26.82	595	53	23	5	3	1	1	0	0	0	34	2	1			
	1077	63	24	5	1	3	1	0	0	0	64	4	2			
	1039	61	21	5	3	2	0	0	0	0	46	3	0			
Average by variant	903,7	59,0	22,7	5,0	2,3	2,0	0,7	0,0	0,0	0,0	48,0	3,0	1,0	53,33	70,37	13,33
"Kemerovchanin" Bactofit	583	62	22	4	2	1	1	0	0	0	22	3	0			
	635	59	22	4	2	2	0	0	0	0	37	3	0			
	866	56	30	5	3	0	0	2	0	0	33	2	0			
Average by variant	694,7	59,0	24,7	4,3	2,3	1,0	0,3	0,7	0,0	0,0	30,7	2,7	0,0	46,15	62,39	16,92

Table 4. Data on the assessment of disease damage to potato tubers

Data on the assessment of disease damage to potato tubers ("Garden of Michurintsev", August 29, 2019)																		
Variety	Variants	Replications	Number of plants before harvesting, specimens	Total number of tubers	Weight of all tubers, g	Healthy plants			Rhizoctonia								S.i.	The prevalence of Rhizoctonia, %
						The mass of 1 tuber, g	The quantity, pcs.	The weight, g	Net necrosis + charcoal spots		Tubers with single sclerotia + 1/10 surface		1/4 surface		1/2 surface			
									Quantity, pcs.	Weight, g	Quantity, pcs.	Weight, g	Quantity, pcs.	Weight, g	Quantity, pcs.	Weight, g		
Kemerovchanin	Control	I	1	6	591	111,7	7	782	1	84	0	0	0	0	0	0	0,10	0,0
		II	1	7	669	89,5	6	537	1	98	0	0	0	0	0	0	0,15	0,0
		III	1	9	1003	93,3	4	373	3	375	0	0	0	0	0	0	0,50	0,0
Average			1,0	7,33	754,33	98,15	5,67	564,00	1,67	185,67	0,00	0,00	0,00	0,00	0,00	0,00	0,25	0,0
Kemerovchanin	Bactofit	I	1	8	870	73,6	11	810	1	81	0	0	0	0	0	0	0,09	0,0
		II	1	7	637	72,2	10	722	1	79	0	0	0	0	0	0	0,10	0,0
		III	1	8	761	60,1	9	541	2	180	0	0	0	0	0	0	0,25	0,0
Average			1,0	7,67	756,00	68,65	10,00	691,00	1,33	113,33	0,00	0,00	0,00	0,00	0,00	0,00	0,15	0,0
Kemerovchanin	Phytotop 26.82	I	1	12	821	98,5	6	591	0	0	0	0	0	0	0	0	0,00	0,0
		II	1	12	844	76,0	5	380	2	288	0	0	0	0	0	0	0,43	0,0
		III	1	13	854	78,1	9	703	0	0	0	0	0	0	0	0	0,00	0,0
Average			1,0	12,33	839,67	84,20	6,67	558,00	0,67	96,00	0,00	0,00	0,00	0,00	0	0	0,14	0,0

Table 5. Fractional composition of potato tubers harvest

Fractional composition of potato tubers harvest ("Garden of Michurintsev", August 29, 2019)																					
Variety	Variant	Repetition	Number of plants before harvesting, specimens	The number of tubers in the sample (from 1 bush)	Weight of all tubers, g	Fraction weight, g									Fraction weight, %			The harvest			
						small			medium			large			small	medium	large	verification	tonne/ha		
						the number of tubers, pcs.	the mass of all tubers	the mass of 1 tuber	the number of tubers, pcs.	the mass of all tubers	the mass of 1 tuber	the number of tubers, pcs.	the mass of all tubers	the mass of 1 tuber					Harvest weight from 1 bush, g	4 bushes per 1 sq. m	6 bushes per 1 sq. m
Kemerovchanin	Control	I	1	6	591	0	0	0,0	6	591	98,5	0	0	0,0	0,00	100,00	0,00		591,0	23,6	35,5
		II	1	7	669	0	0	0,0	5	334	66,8	2	335	167,5	0,00	49,93	50,07		669,0	26,8	40,1
		III	1	9	1003	2	61	30,5	5	378	75,6	2	564	282,0	6,08	37,69	56,23		1003,0	40,1	60,2
Average			1	7,3	754,3	0,7	20,3	10,2	5,3	434,3	80,3	1,3	299,7	149,8	2,03	62,54	35,44	0,0	754,3	30,2	45,3
Kemerovchanin	Bactofit	I	1	8	870	0	0	0,0	4	262	65,5	4	608	152,0	0,00	30,11	69,89		870,0	34,8	52,2
		II	1	7	637	2	42	21,0	3	248	82,7	2	347	173,5	6,59	38,93	54,47		637,0	25,5	38,2
		III	1	8	761	1	33	33,0	5	399	79,8	2	329	164,5	4,34	52,43	43,23		761,0	30,4	45,7
Average			1	7,7	756,0	1,0	25,0	18,0	4,0	303,0	76,0	2,7	428,0	163,3	3,64	40,49	55,86	0,0	756,0	30,2	45,4
Kemerovchanin	Phytop 26.82	I	1	12	821	2	42	21,0	7	414	59,1	3	365	121,7	5,12	50,43	44,46		821,0	32,8	49,3
		II	1	12	844	3	43	14,3	8	651	81,4	1	150	150,0	5,09	77,13	17,77		844,0	33,8	50,6
		III	1	13	854	2	21	10,5	11	833	75,7	0	0	0,0	2,46	97,54	0,00		854,0	34,2	51,2
Average			1	12,3	839,7	2,3	35,3	15,3	8,7	632,7	72,1	1,3	171,7	90,6	4,22	75,03	20,74	0,0	839,7	33,6	50,4