

Table 1.

Crossing of aneuploid lines of cotton *G. hirsutum* L. with the line Pima 3-79 of the species *G. barbadense* L.

Chromosome	Crossing variant	Number of bolls obtained		Crossing, %
		Number of crosses	Number of hybrid bolls	
2	Mo11 x Pima 3-79	5	3	60,00
	Mo16 x Pima 3-79	12	7	58,33
	Mo19 x Pima 3-79	15	11	73,33
	Mo93 x Pima 3-79	2	1	50,00
4	Mo7 x Pima 3-79	2	1	50,00
	Mo31 x Pima 3-79	5	4	80,00
	Mo38 x Pima 3-79	9	6	66,67
	Mo58 x Pima 3-79	4	2	50,00
	Mo59 x Pima 3-79	6	5	83,33
	Mo60 x Pima 3-79	3	3	100,00
	Mo66 x Pima 3-79	20	4	20,00
	Mo69 x Pima 3-79	8	2	25,00
	Mo70 x Pima 3-79	6	4	66,67
	Mo72 x Pima 3-79	12	2	16,66
	Mo73 x Pima 3-79	4	1	25,00
	Mo75 x Pima 3-79	6	4	66,67
	Mo89 x Pima 3-79	4	2	50,00
6	Mo13 x Pima 3-79	10	4	40,00
	Mo34 x Pima 3-79	19	5	26,32
	Mo67 x Pima 3-79	5	3	60,00
	Mo92 x Pima 3-79	3	2	66,67
	Mo95 x Pima 3-79	16	8	50,00
7	Mo27 x Pima 3-79	2	1	50,00
12	Mo94xPima 3-79	3	1	33,33
17	Mo56 x Pima 3-79	10	4	40,00
18	Mo48 x Pima 3-79	6	1	16,66
21	Mo42 x Pima 3-79	6	1	16,67
22	Mo17 x Pima 3-79	7	1	14,29
telo 6	Telo12xPima 3-79	2	1	50,00
telo 11	Mo21 x Pima 3-79	3	3	100,00

**Table 2.**

**Setting of F<sub>0</sub> hybrid seeds obtained from crosses of aneuploid lines of the species *G.hirsutum* L. with the line Pima3-79 of the species *G.barbadense* L.**

Chromosome	Crossing variant	Number of bolls	Number of seeds in bolls		Total number of seeds and motes	Setting of hybrid seeds, %
			matured	immature and motes		
-	L-458xPima 3-79	4	79	28	107	73,83±4,25
2	Mo11xPima 3-79	3	26	57	83	31,33±5,09
	Mo16xPima 3-79	7	74	135	209	35,41±3,31
	Mo19xPima 3-79	11	152	221	373	40,75±2,54
	Mo93xPima 3-79	1	17	11	28	60,71±10,48
	Mo7xPima 3-79	1	9	13	22	40,91±10,48
4	Mo31xPima 3-79	4	56	87	143	39,16±4,08
	Mo38 xPima 3-79	6	79	77	156	50,64±4,00
	Mo58 xPima 3-79	2	23	36	59	38,98±6,35
	Mo59 xPima 3-79	5	79	122	201	39,30±3,45
	Mo60 xPima 3-79	3	31	53	84	36,90±5,27
	Mo66xPima 3-79	4	29	31	60	48,33±6,45
	Mo69 xPima 3-79	2	23	26	49	46,94±7,13
	Mo70xPima 3-79	2	19	54	73	26,03±5,14
	Mo72xPima 3-79	2	41	43	84	51,52±6,15
	Mo73xPima 3-79	1	21	13	34	61,76±8,33
	Mo75 xPima 3-79	4	75	67	142	52,82±4,19
	Mo89xPima 3-79	2	29	31	60	48,33±6,45
	Mo13 xPima 3-79	3	33	60	93	35,48±4,96
6	Mo34 xPima 3-79	3	34	68	102	33,33±4,67
	Mo67 xPima 3-79	2	11	48	59	18,64±5,07
	Mo92 xPima 3-79	2	17	43	60	28,33±5,82
	Mo95 xPima 3-79	8	77	219	296	26,01±2,55
7	Mo27 xPima 3-79	1	17	26	43	39,53±7,46
12	Mo94xPima 3-79	1	19	14	33	57,58±8,60
17	Mo56xPima 3-79	4	56	80	136	41,17±4,22
18	Mo48 xPima 3-79	1	19	4	23	82,61±7,90
21	Mo42xPima 3-79	1	21	13	34	61,76 ±8,33
22	Mo17xPima 3-79	1	10	24	34	29,41±7,81
telo 6	Telo12xPima 3-79	1	29	13	42	69,05±7,13
telo 11	Mo21xPima 3-79	3	12	63	75	16,00±4,23

**Table 3.**

**Germination of F<sub>0</sub> hybrid seeds obtained from crosses of aneuploid lines of the species *G. hirsutum* L. with the line Pima 3-79 of the species *G. barbadense* L.**

<b>Chromosome</b>	<b>Crossing variant</b>	<b>Number of seeds sown</b>	<b>Number of shoots</b>	<b>Germination, %</b>
-	F <sub>1</sub> L-458 x Pima 3-79	6	4	66,67
<b>2</b>	F <sub>1</sub> Mo11 x Pima 3-79	17	16	94,12
	F <sub>1</sub> Mo16 x Pima 3-79	8	8	100,00
	F <sub>1</sub> Mo19 x Pima 3-79	14	8	57,14
	F <sub>1</sub> Mo93 x Pima 3-79	15	11	73,33
<b>4</b>	F <sub>1</sub> Mo7 x Pima 3-79	9	7	77,78
	F <sub>1</sub> Mo31 x Pima 3-79	19	4	21,05
	F <sub>1</sub> Mo38 x Pima 3-79	37	28	75,68
	F <sub>1</sub> Mo58 x Pima 3-79	13	7	53,85
	F <sub>1</sub> Mo59 x Pima 3-79	29	18	62,07
	F <sub>1</sub> Mo60 x Pima 3-79	24	18	75,00
	F <sub>1</sub> Mo66 x Pima 3-79	22	8	36,36
	F <sub>1</sub> Mo69 x Pima 3-79	21	11	52,38
	F <sub>1</sub> Mo70x Pima 3-79	19	12	63,16
	F <sub>1</sub> Mo72 x Pima 3-79	20	13	65,00
	F <sub>1</sub> Mo73 x Pima 3-79	21	14	66,67
	F <sub>1</sub> Mo75 x Pima 3-79	15	12	80,00
	F <sub>1</sub> Mo89 x Pima 3-79	29	13	44,83
	F <sub>1</sub> Mo13 x Pima 3-79	8	8	100
<b>6</b>	F <sub>1</sub> Mo34 x Pima 3-79	58	44	75,86
	F <sub>1</sub> Mo67 x Pima 3-79	6	4	66,67
	F <sub>1</sub> Mo92 x Pima 3-79	15	15	100
	F <sub>1</sub> Mo95 x Pima 3-79	42	34	80,95
<b>7</b>	F <sub>1</sub> Mo27 x Pima 3-79	17	15	88,24
<b>12</b>	F <sub>1</sub> Mo94xPima 3-79	19	16	84,21
<b>17</b>	F <sub>1</sub> Mo56xPima 3-79	19	17	89,47
<b>18</b>	F <sub>1</sub> Mo48 xPima 3-79	19	17	89,47
<b>21</b>	F <sub>1</sub> Mo42xPima 3-79	21	13	61,90
<b>22</b>	F <sub>1</sub> Mo17xPima 3-79	10	7	70,00
<b>telo 6</b>	F <sub>1</sub> Telo12 x Pima 3-79	28	27	96,43
<b>telo 11</b>	F <sub>1</sub> Mo21 x Pima 3-79	18	16	88,88

**Table 4.**

**Analysis of hybrid F<sub>1</sub> offspring obtained from crosses of aneuploid lines of the species *G. hirsutum* L. with the line Pima 3-79 of the species *G. barbadense* L.**

Chromosome	Crossing variant	Total number of hybrid plants in the family	Number of studied plants	Number of disomics (2n=52)	Number of monosomics (2n=51)	Number of monotelodisomics (2n=51+I')
2	F <sub>1</sub> Mo11xPima 3-79					
	765 n	9	2	2	-	
	766 n	7	1	-	1	
	F <sub>1</sub> Mo16xPima 3-79					
	98 n	8	6	4	2	
	F <sub>1</sub> Mo19 x Pima 3-79					
	99 n	8	8	8	-	
	768 n	1	1	-	1	
	769 n	6	4	3	1	
	F <sub>1</sub> Mo93 x Pima 3-79					
4	516 n	11	9	7	2	
	F <sub>1</sub> Mo7xPima 3-79					
	683 n	7	4	2	2	
	F <sub>1</sub> Mo31xPima 3-79					
	770 n	4	2	-	2	
	F <sub>1</sub> Mo38xPima 3-79					
	690 n	13	4	3	1	
	F <sub>1</sub> Mo58xPima 3-79					
	530 n	7	4	1	3	
	F <sub>1</sub> Mo59xPima 3-79					
	531 n	10	5	2	3	
	F <sub>1</sub> Mo60xPima 3-79					
	694 n	9	2	1	1	
	F <sub>1</sub> Mo69xPima 3-79					
	695 n	7	6	6	-	
	696 n	11	7	6	1	
	F <sub>1</sub> Mo70xPima 3-79					
	774 n	9	5	3	2	
	775 n	3	-	-	-	
	F <sub>1</sub> Mo75xPima 3-79					
6	104 n	12	5	1	4	
	F <sub>1</sub> Mo89 xPima 3-79					
	515 n	8	8	5	3	
	913 n	8	-	-	-	
	F <sub>1</sub> Mo13 x Pima 3-79					
	97 n	5	3	3	-	
	767 n	2	2	1	1	
	F <sub>1</sub> Mo34 x Pima 3-79					
	2 n	8	6	5	1	
	688 n	9	4	3	1	
	911 n	8	8	7	1	
	F <sub>1</sub> Mo67 x Pima 3-79					
	308 n	4	1	-	1	
	F <sub>1</sub> Mo92 x Pima 3-79					
	539 n	8	7	6	1	
	540 n	6	1	1	-	
	F <sub>1</sub> Mo95 x Pima 3-79					
	105 n	3	2	2	-	
	106 n	8	4	2	2	

	107 n	6	2	2	-	
	108 n	11	7	5	2	
7	F <sub>1</sub> Mo27 x Pima 3-79					
	687 n	15	7	6	1	
12	F <sub>1</sub> Mo94 x Pima 3-79					
	8 n	16	9	6	3	
17	F <sub>1</sub> Mo56 x Pima 3-79					
	4 n	17	17	15	2	
18	F <sub>1</sub> Mo48 x Pima 3-79					
	529 n	17	10	9	1	
21	F <sub>1</sub> Mo42 x Pima 3-79					
	528 n	13	13	12	1	
22	F <sub>1</sub> Mo17 x Pima 3-79					
	685 n	7	5	3	2	
telo 6	F <sub>1</sub> Telo12 x Pima 3-79					
	542 n	24	14	12	-	2
telo 11	F <sub>1</sub> Mo21 x Pima 3-79					
	100 n	3	3	2	-	1

Table 5.

Pairing of chromosomes at the metaphase I stage of meiosis in aneuploids F<sub>1</sub> hybrids obtained from crosses of aneuploid lines of the species *G. hirsutum* L. with the line Pima 3-79 of the species *G. barbadense* L.

Chromosome	Crossing variant	Hybrid	Univalent size	Examine d cells in MI	Average number per cell		
					univalent	bivalents	quadrival ent
	L-458	-	-	11	-	26,00±0,00	0
	Pima 3-79	-	-	15	-	26,00±0,00	0
	F <sub>1</sub> L-458xPima 3-79	680	-	10	-	26,00±0,00	0
2	F <sub>1</sub> Mo11xPima 3-79	766 <sub>3</sub>	Large	8	1,00±0,00	25,00±0,00	0
	F <sub>1</sub> Mo16xPima 3-79	98 <sub>2</sub>	Large	6	1,00±0,00	25,00±0,00	0
		98 <sub>6</sub>	Large	16	1,00±0,00	25,00±0,00	0
	F <sub>1</sub> Mo19xPima 3-79	768 <sub>1</sub>	Large	11	1,00±0,00	25,00±0,00	0
		769 <sub>2</sub>	Large	14	1,00±0,00	25,00±0,00	0
	F <sub>1</sub> Mo93xPima 3-79	516 <sub>2</sub>	Large	11	1,00±0,00	25,00±0,00	0
		516 <sub>4</sub>	Large	14	1,00±0,00	25,00±0,00	0
	4	F <sub>1</sub> Mo7xPima 3-79	683 <sub>1</sub>	Medium	20	1,00±0,00	25,00±0,00
683 <sub>2</sub>			Medium	14	1,00±0,00	25,00±0,00	0
F <sub>1</sub> Mo31xPima 3-79		770 <sub>1</sub>	Medium	14	1,00±0,00	25,00±0,00	0
		770 <sub>2</sub>	Medium	11	1,00±0,00	25,00±0,00	0
F <sub>1</sub> Mo38xPima 3-79		690 <sub>11</sub>	Medium	20	1,00±0,00	25,00±0,00	0
		915 <sub>7</sub>	Medium	5	1,00±0,00	25,00±0,00	0
F <sub>1</sub> Mo58xPima 3-79		530 <sub>2</sub>	Medium	26	1,00±0,00	25,00±0,00	0
		530 <sub>3</sub>	Medium	23	1,00±0,00	25,00±0,00	0
		530 <sub>7</sub>	Medium	5	1,00±0,00	25,00±0,00	0
F <sub>1</sub> Mo59xPima 3-79		531 <sub>2</sub>	Medium	9	1,00±0,00	25,00±0,00	0
		531 <sub>6</sub>	Medium	9	1,00±0,00	25,00±0,00	0
		531 <sub>8</sub>	Medium	6	1,00±0,00	25,00±0,00	0
F <sub>1</sub> Mo60xPima 3-79		694 <sub>5</sub>	Medium	21	1,00±0,00	25,00±0,00	0
		912 <sub>2</sub>	Medium	24	1,00±0,00	25,00±0,00	0
F <sub>1</sub> Mo69xPima 3-79		696 <sub>9</sub>	Medium	14	1,00±0,00	25,00±0,00	0
F <sub>1</sub> Mo70xPima 3-79		774 <sub>6</sub>	Medium	20	1,00±0,00	25,00±0,00	0
		774 <sub>7</sub>	Medium	8	1,00±0,00	25,00±0,00	0
F <sub>1</sub> Mo75xPima 3-79		104 <sub>2</sub>	Medium	5	1,00±0,00	25,00±0,00	0
		104 <sub>11</sub>	Medium	10	1,00±0,00	25,00±0,00	0
F <sub>1</sub> Mo89xPima 3-79		515 <sub>2</sub>	Medium	14	1,00±0,00	25,00±0,00	0
	515 <sub>5</sub>	Medium	9	1,00±0,00	25,00±0,00	0	
	515 <sub>7</sub>	Medium	5	1,00±0,00	25,00±0,00	0	
6	F <sub>1</sub> Mo13xPima 3-79	767 <sub>1</sub>	Large	17	1,00±0,00	25,00±0,00	0
	F <sub>1</sub> Mo34xPima 3-79	2 <sub>8</sub>	Large	22	1,09±0,16	24,95±0,08	0
		688 <sub>9</sub>	Large	26	1,00±0,00	25,00±0,00	0
		911 <sub>8</sub>	Large	15	1,00±0,00	25,00±0,00	0
	F <sub>1</sub> Mo67xPima 3-79	308 <sub>1</sub>	Large	5	1,00±0,00	25,00±0,00	0
	F <sub>1</sub> Mo92xPima 3-79	539 <sub>5</sub>	Large	21	1,00±0,00	25,00±0,00	0
	F <sub>1</sub> Mo95xPima 3-79	106 <sub>2</sub>	Large	7	1,00±0,00	25,00±0,00	0
		106 <sub>5</sub>	Large	15	1,00±0,00	24,93±0,06	0,07±0,06
108 <sub>3</sub>		Large	15	1,00±0,00	25,00±0,00	0	
108 <sub>10</sub>		Large	5	1,00±0,00	25,00±0,00	0	

<b>7</b>	F <sub>1</sub> Mo27xPima 3-79	687 <sub>4</sub>	Medium	10	1,00±0,00	25,00±0,00	0
<b>12</b>	F <sub>1</sub> Mo94xPima 3-79	8 <sub>1</sub>	Large	2	1,00±0,00	25,00±0,00	0
		8 <sub>3</sub>	Large	28	1,00±0,00	25,00±0,00	0
		8 <sub>13</sub>	Large	13	1,00±0,00	25,00±0,00	0
<b>17</b>	F <sub>1</sub> Mo56xPima 3-79	4 <sub>13</sub>	Medium-small	9	1,00±0,00	25,00±0,00	0
		4 <sub>17</sub>	Medium-small	9	1,00±0,00	25,00±0,00	0
<b>18</b>	F <sub>1</sub> Mo48xPima 3-79	529 <sub>16</sub>	Small	22	1,00±0,00	25,00±0,00	0
<b>21</b>	F <sub>1</sub> Mo42xPima 3-79	528 <sub>1</sub>	Medium-small	10	1,00±0,00	25,00±0,00	-
<b>22</b>	F <sub>1</sub> Mo17xPima 3-79	685 <sub>3</sub>	Medium-small	7	1,00±0,00	25,00±0,00	-
		685 <sub>7</sub>	Medium-small	18	1,00±0,00	25,00±0,00	-
<b>telo 6</b>	F <sub>1</sub> Telo12xPima 3-79	542 <sub>8</sub>	-	3	0	26,00±0,00*	0
		542 <sub>16</sub>	-	4	0	26,00±0,00*	0
<b>telo 11</b>	F <sub>1</sub> Mo21xPima 3-79	100 <sub>1</sub>	-	15	0	26,00±0,00*	0
		102 <sub>1</sub>	-	4	0	26,00±0,00*	0

Note – 25 normal (closed) bivalents and one heteromorphic (open) bivalent.

Table 6.

Analysis of sporades in interspecific F<sub>1</sub> hybrids obtained from crosses of aneuploid lines of the species *G. hirsutum* L. with the line Pima3-79 of the species *G. barbadense* L.

Chromosome	Crossing variant	Hybrid	Total number of microspores	Meiotic index, %	% of tetrads with micronuclei
	L-458	-	1125	99,02±0,29	0,36±0,18
	Pima 3-79	-	1130	98,58±0,35	0,27±0,15
	L-458 x Pima 3-79	680	2535	98,62±0,23	0,04±0,04
2	F <sub>1</sub> Mo11xPima 3-79	766 <sub>3</sub>	1567	98,72±0,28	0,51±0,18
	F <sub>1</sub> Mo16xPima 3-79	98 <sub>2</sub>	3524	98,50±0,21	0,57±0,13
4	F <sub>1</sub> Mo7xPima 3-79	683 <sub>1</sub>	576	98,07±0,58	1,23±0,46
		683 <sub>2</sub>	4775	98,35±0,18	0,02±0,02
	F <sub>1</sub> Mo31xPima 3-79	770 <sub>1</sub>	592	96,28±0,78	2,03±0,58
		770 <sub>2</sub>	1031	96,99±0,53	0,10±0,10
	F <sub>1</sub> Mo38xPima 3-79	690 <sub>11</sub>	1182	96,79±0,51	1,18±0,31
		530 <sub>2</sub>	1023	98,44±0,39	0,10±0,10
		530 <sub>3</sub>	2902	97,38±0,30	0,41±0,12
	F <sub>1</sub> Mo58xPima 3-79	530 <sub>7</sub>	1764	96,88±0,41	0,68±0,20
		531 <sub>2</sub>	1476	99,93±0,07	0,14±0,10
		531 <sub>6</sub>	2904	99,52±0,13	0,07±0,05
	F <sub>1</sub> Mo59xPima 3-79	531 <sub>8</sub>	3694	98,35±0,21	0,14±0,06
		694 <sub>5</sub>	4768	96,02±0,28	1,15±0,15
		696 <sub>9</sub>	1469	98,57±0,31	0,00±0,00
	F <sub>1</sub> Mo70xPima 3-79	774 <sub>6</sub>	1435	90,73±0,77	0,00±0,00 <b>(9,20±0,76 monad)</b>
		774 <sub>7</sub>	2167	98,29±0,28	0,05±0,05
	F <sub>1</sub> Mo75xPima 3-79	104 <sub>2</sub>	1639	99,08±0,24	0,06±0,06
		104 <sub>11</sub>	990	99,19±0,28	0,10±0,10
	F <sub>1</sub> Mo89xPima 3-79	515 <sub>2</sub>	2431	98,31±0,26	0,70±0,17
		515 <sub>7</sub>	1008	97,62±0,48	0,30±0,17
6	F <sub>1</sub> Mo13xPima 3-79	767 <sub>1</sub>	5600	98,04±0,19	0,38±0,08
	F <sub>1</sub> Mo34xPima 3-79	2 <sub>8</sub>	1025	97,76±0,46	0,98±0,31
		688 <sub>9</sub>	2831	97,39±0,30	0,74±0,16
		911 <sub>8</sub>	1027	97,57±0,48	0,97±0,31
	F <sub>1</sub> Mo67xPima 3-79	308 <sub>1</sub>	1588	95,78±0,50	0,44±0,17
	F <sub>1</sub> Mo92xPima 3-79	539 <sub>5</sub>	1659	98,81±1,19	1,86±0,22
	F <sub>1</sub> Mo95xPima 3-79	106 <sub>2</sub>	1190	99,16±0,26	0,00±0,00
		106 <sub>5</sub>	986	94,32±0,74	0,81±0,29
7	F <sub>1</sub> Mo27xPima 3-79	687 <sub>4</sub>	2348	95,87±0,41	0,38±0,13
12	F <sub>1</sub> Mo94xPima 3-79	8 <sub>1</sub>	5196	98,54±0,17	0,27±0,07
		8 <sub>3</sub>	4272	98,08±0,21	0,33±0,09
		8 <sub>13</sub>	967	98,35±0,41	1,24±0,36
17	F <sub>1</sub> Mo56xPima 3-79	4 <sub>17</sub>	1015	97,54±0,49	0,99±0,31
18	F <sub>1</sub> Mo48xPima 3-79	529 <sub>16</sub>	5002	98,14±0,19	0,04±0,03
21	F <sub>1</sub> Mo42xPima 3-79	528 <sub>1</sub>	1846	97,67±0,35	0,11±0,08
22	F <sub>1</sub> Mo17xPima 3-79	685 <sub>7</sub>	1774	99,27±0,20	0,28±0,13
telo 6	F <sub>1</sub> Telo12xPima 3-79	542 <sub>8</sub>	1248	98,56±0,34	0,00±0,00
		542 <sub>16</sub>	4254	98,40±0,19	0,07±0,04
telo 11	F <sub>1</sub> Mo21xPima 3-79	100 <sub>1</sub>	4074	98,82±0,17	0,05±0,03



		102 <sub>1</sub>	1147	95,64±0,60	0,35±0,17
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Table 7.

Analysis of pollen fertility in interspecific F<sub>1</sub> hybrids obtained from crosses of aneuploid lines of the species *G. hirsutum* L. with the line Pima 3-79 of the species *G. barbadense* L.

Chromosome	Crossing variant	Hybrid	Total pollen count	Pollen fertility, %	Pollen sterility, %
	L-458	-	628	90,92±1,15	9,08±1,15
	Pima 3-79	-	581	84,34±1,51	15,66±1,51
	F <sub>1</sub> L-458xPima 3-79	680	536	80,78±1,70	19,22±1,70
2	F <sub>1</sub> Mo11xPima 3-79	766 <sub>3</sub>	838	83,41±1,28	16,59±1,28
	F <sub>1</sub> Mo16xPima 3-79	98 <sub>2</sub>	853	79,13±1,39	20,87±1,39
		98 <sub>6</sub>	526	80,42±1,73	19,58±1,73
	F <sub>1</sub> Mo19xPima 3-79	769 <sub>2</sub>	560	85,71±1,48	14,29±1,48
	F <sub>1</sub> Mo93xPima 3-79	516 <sub>2</sub>	712	82,02±1,44	17,98±1,44
		516 <sub>4</sub>	224	78,13±2,76	21,88±2,76
4	F <sub>1</sub> Mo7xPima 3-79	683 <sub>1</sub>	881	90,12±1,01	9,88±1,01
		683 <sub>2</sub>	920	79,89±1,32	20,11±1,32
	F <sub>1</sub> Mo31xPima 3-79	770 <sub>1</sub>	503	89,07±1,39	10,93±1,39
		770 <sub>2</sub>	920	89,13±1,03	10,87±1,03
	F <sub>1</sub> Mo38xPima 3-79	690 <sub>11</sub>	936	86,11±19,97	13,89±1,13
	F <sub>1</sub> Mo58xPima 3-79	530 <sub>2</sub>	1328	83,51±1,02	16,49±1,02
		530 <sub>3</sub>	1115	84,39±1,09	15,61±1,09
		530 <sub>7</sub>	319	83,07±2,10	16,93±2,10
	F <sub>1</sub> Mo59xPima 3-79	531 <sub>2</sub>	899	81,98±1,28	18,02±1,28
		531 <sub>6</sub>	298	89,93±1,74	10,07±1,74
		531 <sub>8</sub>	425	72,24±2,17	27,76±2,17
	F <sub>1</sub> Mo60xPima 3-79	694 <sub>5</sub>	774	75,97±1,54	24,03±1,54
		912 <sub>2</sub>	633	92,10±1,07	7,90±1,07
	F <sub>1</sub> Mo69xPima 3-79	696 <sub>9</sub>	925	82,59±1,25	17,41±1,25
	F <sub>1</sub> Mo70xPima 3-79	774 <sub>6</sub>	619	91,44±1,12	8,56±1,12
		774 <sub>7</sub>	680	87,50±1,27	12,50±1,27
	F <sub>1</sub> Mo75xPima 3-79	104 <sub>2</sub>	984	80,79±1,26	19,21±1,26
		104 <sub>11</sub>	869	81,24±1,32	18,76±1,32
	F <sub>1</sub> Mo89xPima 3-79	515 <sub>2</sub>	1095	90,96±0,87	9,04±0,87
		515 <sub>7</sub>	942	90,23±0,97	9,77±0,97
6	F <sub>1</sub> Mo13xPima 3-79	767 <sub>1</sub>	701	88,45±1,21	11,55±1,21
	F <sub>1</sub> Mo34xPima 3-79	2 <sub>8</sub>	790	87,34±1,18	12,66±1,18
		688 <sub>9</sub>	955	81,15±1,27	18,85±1,27
		911 <sub>8</sub>	938	85,18±1,16	14,82±1,16
	F <sub>1</sub> Mo67xPima 3-79	308 <sub>1</sub>	349	93,12±1,35	6,88±1,35
	F <sub>1</sub> Mo92xPima 3-79	539 <sub>5</sub>	1242	71,34±1,28	28,66±1,28
	F <sub>1</sub> Mo95xPima 3-79	106 <sub>2</sub>	-	-	-
		106 <sub>5</sub>	619	89,98±1,21	10,02±1,21
7	F <sub>1</sub> Mo27xPima 3-79	687 <sub>4</sub>	672	84,23±1,41	15,77±1,41
12	F <sub>1</sub> Mo94xPima 3-79	8 <sub>1</sub>	866	83,49±1,26	16,51±1,26
		8 <sub>3</sub>	522	84,87±1,57	15,13±1,57
		8 <sub>13</sub>	693	87,73±1,25	12,27±1,25
17	F <sub>1</sub> Mo56xPima 3-79	4 <sub>13</sub>	211	88,63±2,19	11,37±2,19
		4 <sub>17</sub>	521	82,92±1,65	17,08±1,65
18	F <sub>1</sub> Mo48xPima 3-79	529 <sub>16</sub>	777	76,58±1,52	23,42±1,52
21	F <sub>1</sub> Mo42xPima 3-79	528 <sub>1</sub>	1086	82,69±1,15	17,31±1,15
22	F <sub>1</sub> Mo17xPima 3-79	685 <sub>7</sub>	822	81,39±1,36	18,61±1,36

<b>telo 6</b>	F <sub>1</sub> Telo12x Pima 3-79	542 <sub>8</sub>	345	72,17±2,41	27,83±2,41
		542 <sub>16</sub>	763	79,03±1,47	20,97±1,47
<b>telo 11</b>	F <sub>1</sub> Mo21xPima 3-79	100 <sub>1</sub>	553	84,45±1,54	15,55±1,54
		102 <sub>1</sub>	581	90,53±1,21	9,47±1,21

Table 8.

**Crossing of monosomic and monotelodisome lines of cotton with interspecific aneuploid F<sub>1</sub> (Mo x Pima 3-79 or Telo x Pima 3-79) hybrids with substitutions of individual chromosomes or their arms**

Chromosome	Hybrids	Number of bolls received (2014–2020)		Crossing, %
		Number of crosses	Number of hybrid bolls	
2	F <sub>1</sub> BC <sub>1</sub> (Mo16 x F <sub>1</sub> (98 <sub>6</sub> ))	25	6	24,00
	F <sub>1</sub> BC <sub>1</sub> (Mo93x F <sub>1</sub> (516 <sub>2</sub> ))	3	1	33,33
4	F <sub>1</sub> BC <sub>1</sub> (Mo7x F <sub>1</sub> (683 <sub>1</sub> ))	3	1	33,33
	F <sub>1</sub> BC <sub>1</sub> (Mo31 x F <sub>1</sub> (770 <sub>1</sub> ))	2	1	50,00
	F <sub>1</sub> BC <sub>1</sub> (Mo38 x F <sub>1</sub> (690 <sub>11</sub> ))	9	2	22,22
	F <sub>1</sub> BC <sub>1</sub> (Mo58 x F <sub>1</sub> (530 <sub>2</sub> ))	13	2	15,38
	F <sub>1</sub> BC <sub>1</sub> (Mo59 x F <sub>1</sub> (531 <sub>2</sub> ))	8	1	12,50
	F <sub>1</sub> BC <sub>1</sub> (Mo60 x F <sub>1</sub> (694 <sub>5</sub> ))	14	9	64,29
	F <sub>1</sub> BC <sub>1</sub> (Mo75 x F <sub>1</sub> (104 <sub>2</sub> ))	10	6	60,00
6	F <sub>1</sub> BC <sub>1</sub> (Mo34 x F <sub>1</sub> (688 <sub>9</sub> ))	9	2	22,22
	F <sub>1</sub> BC <sub>1</sub> (Mo67 x F <sub>1</sub> (308 <sub>1</sub> ))	5	1	20,00
	F <sub>1</sub> BC <sub>1</sub> (Mo92 x F <sub>1</sub> (1040 <sub>2</sub> ))	13	3	23,08
	F <sub>1</sub> BC <sub>1</sub> (Mo95 x F <sub>1</sub> (106 <sub>2</sub> ))	4	1	25,00
7	F <sub>1</sub> BC <sub>1</sub> (Mo27 x F <sub>1</sub> (687 <sub>4</sub> ))	13	7	76,92
12	F <sub>1</sub> BC <sub>1</sub> (Mo94 x F <sub>1</sub> (8 <sub>1</sub> ))	16	5	31,25
17	F <sub>1</sub> BC <sub>1</sub> (Mo56x F <sub>1</sub> (4 <sub>17</sub> ))	8	6	75,00
18	F <sub>1</sub> BC <sub>1</sub> (Mo48 x F <sub>1</sub> (529 <sub>16</sub> ))	16	2	12,50
21	F <sub>1</sub> BC <sub>1</sub> (Mo42 x F <sub>1</sub> (528 <sub>1</sub> ))	4	3	75,00
22	F <sub>1</sub> BC <sub>1</sub> (Mo17 x F <sub>1</sub> (685 <sub>7</sub> ))	4	2	50,00
telo 6	F <sub>1</sub> BC <sub>1</sub> (Тело12 x F <sub>1</sub> (542 <sub>8</sub> ))	3	1	33,00
telo 11	F <sub>1</sub> BC <sub>1</sub> (Mo21xF <sub>1</sub> (100 <sub>1</sub> ))	5	4	80,00

Table 9.

Setting of BC<sub>1</sub>F<sub>1</sub> hybrid seeds obtained from crosses of monosomic and monotelodisome lines with F<sub>1</sub> aneuploid hybrids with substitutions of specific chromosomes or their arms

Chromosome	Hybrids	Number of bolls	Number of seeds			Total number of seeds and notes	Setting hybrid seeds, %
<b>2</b>	F <sub>1</sub> BC <sub>1</sub> (Mo16 x F <sub>1</sub> (98 <sub>6</sub> ))	6	62	+	85	147	42,18±4,07
	F <sub>1</sub> BC <sub>1</sub> (Mo93xF <sub>1</sub> (516 <sub>2</sub> ))	1	3	+	24	27	11,11±6,05
<b>4</b>	F <sub>1</sub> BC <sub>1</sub> (Mo7x F <sub>1</sub> (683 <sub>1</sub> ))	1	6	+	19	25	24,00±8,54
	F <sub>1</sub> BC <sub>1</sub> (Mo31x F <sub>1</sub> (770 <sub>1</sub> ))	1	7	+	8	15	46,67±12,88
	F <sub>1</sub> BC <sub>1</sub> (Mo38xF <sub>1</sub> (690 <sub>11</sub> ))	2	35	+	45	81	44,44±5,52
	F <sub>1</sub> BC <sub>1</sub> (Mo58 x F <sub>1</sub> (530 <sub>2</sub> ))	2	15	+	51	66	22,73±5,16
	F <sub>1</sub> BC <sub>1</sub> (Mo59 x F <sub>1</sub> (531 <sub>2</sub> ))	2	9	+	32	41	21,95±6,46
	F <sub>1</sub> BC <sub>1</sub> (Mo60 x F <sub>1</sub> (694 <sub>5</sub> ))	4	30	+	82	112	24,72±2,64
	F <sub>1</sub> BC <sub>1</sub> (Mo75 x F <sub>1</sub> (104 <sub>2</sub> ))	6	67	+	105	172	38,95±3,72
<b>6</b>	F <sub>1</sub> BC <sub>1</sub> (Mo34 x F <sub>1</sub> (688 <sub>9</sub> ))	2	18	+	48	66	27,27±5,48
	F <sub>1</sub> BC <sub>1</sub> (Mo67 x F <sub>1</sub> (308 <sub>1</sub> ))	1	7	+	16	23	30,43±9,59
	F <sub>1</sub> BC <sub>1</sub> (Mo92 xF <sub>1</sub> (1040 <sub>2</sub> ))	3	8	+	76	84	9,52±3,20
	F <sub>1</sub> BC <sub>1</sub> (Mo95 x F <sub>1</sub> (106 <sub>2</sub> ))	1	3	+	12	15	20,00±10,33
<b>7</b>	F <sub>1</sub> BC <sub>1</sub> (Mo27 x F <sub>1</sub> (687 <sub>4</sub> ))	10	128	+	157	285	44,91±2,95
<b>12</b>	F <sub>1</sub> BC <sub>1</sub> (Mo94 x F <sub>1</sub> (8 <sub>1</sub> ))	5	38	+	109	147	25,85±3,61
<b>17</b>	F <sub>1</sub> BC <sub>1</sub> (Mo56x F <sub>1</sub> (4 <sub>17</sub> ))	6	44	+	87	131	33,59±4,13
<b>18</b>	F <sub>1</sub> BC <sub>1</sub> (Mo48 x F <sub>1</sub> (529 <sub>16</sub> ))	2	38	+	15	53	71,70±6,19
<b>21</b>	F <sub>1</sub> BC <sub>1</sub> (Mo42 x F <sub>1</sub> (528 <sub>1</sub> ))	3	13	+	47	60	21,67±5,37
<b>22</b>	F <sub>1</sub> BC <sub>1</sub> (Mo17 x F <sub>1</sub> (685 <sub>7</sub> ))	2	10	+	38	48	20,83±5,86
<b>telo 6</b>	F <sub>1</sub> BC <sub>1</sub> (Telo12 xF <sub>1</sub> (542 <sub>8</sub> ))	1	21	+	19	40	52,50±7,90
<b>telo11</b>	F <sub>1</sub> BC <sub>1</sub> (Mo21xF <sub>1</sub> (100 <sub>1</sub> ))	2	5	+	39	44	10,75±3,21

Table 10.

**Germination of BC<sub>1</sub>F<sub>1</sub> hybrid seeds obtained from crosses of monosomic and monotelodisome lines with aneuploid F<sub>1</sub> (Mo x Pima 3-79 or Telo x Pima 3-79) hybrids with substitutions of specific chromosomes or their arms**

<b>Chromosome</b>	<b>Hybrids</b>	<b>Number of hybrid seeds</b>	<b>Number of shoots</b>	<b>Germination, %</b>
<b>2</b>	F <sub>1</sub> BC <sub>1</sub> (Mo16 x F <sub>1</sub> (98 <sub>6</sub> ))	32	17	53,13
	F <sub>1</sub> BC <sub>1</sub> (Mo93xF <sub>1</sub> (516 <sub>2</sub> ))	3	2	66,67
<b>4</b>	F <sub>1</sub> BC <sub>1</sub> (Mo7x F <sub>1</sub> (683 <sub>1</sub> ))	6	6	100,00
	F <sub>1</sub> BC <sub>1</sub> (Mo31x F <sub>1</sub> (770 <sub>1</sub> ))	7	6	85,71
	F <sub>1</sub> BC <sub>1</sub> (Mo38xF <sub>1</sub> (690 <sub>11</sub> ))	36	16	44,44
	F <sub>1</sub> BC <sub>1</sub> (Mo58 x F <sub>1</sub> (530 <sub>2</sub> ))	15	11	73,33
	F <sub>1</sub> BC <sub>1</sub> (Mo59 x F <sub>1</sub> (531 <sub>2</sub> ))	9	7	77,78
	F <sub>1</sub> BC <sub>1</sub> (Mo60 x F <sub>1</sub> (694 <sub>5</sub> ))	30	17	56,67
	F <sub>1</sub> BC <sub>1</sub> (Mo75 x F <sub>1</sub> (104 <sub>2</sub> ))	19	10	52,63
	F <sub>1</sub> BC <sub>1</sub> (Mo34 x F <sub>1</sub> (688 <sub>9</sub> ))	10	10	100,00
<b>6</b>	F <sub>1</sub> BC <sub>1</sub> (Mo67 x F <sub>1</sub> (308 <sub>1</sub> ))	7	4	57,14
	F <sub>1</sub> BC <sub>1</sub> (Mo92 xF <sub>1</sub> (1040 <sub>2</sub> ))	8	3	37,50
	F <sub>1</sub> BC <sub>1</sub> (Mo95 x F <sub>1</sub> (106 <sub>2</sub> ))	3	3	100,00
	F <sub>1</sub> BC <sub>1</sub> (Mo27 x F <sub>1</sub> (687 <sub>4</sub> ))	24	18	75,00
<b>12</b>	F <sub>1</sub> BC <sub>1</sub> (Mo94 x F <sub>1</sub> (8 <sub>1</sub> ))	16	9	56,25
<b>17</b>	F <sub>1</sub> BC <sub>1</sub> (Mo56x F <sub>1</sub> (4 <sub>17</sub> ))	19	14	73,68
<b>18</b>	F <sub>1</sub> BC <sub>1</sub> (Mo48 x F <sub>1</sub> (529 <sub>16</sub> ))	38	36	94,74
<b>21</b>	F <sub>1</sub> BC <sub>1</sub> (Mo42 x F <sub>1</sub> (528 <sub>1</sub> ))	13	7	53,85
<b>22</b>	F <sub>1</sub> BC <sub>1</sub> (Mo17 x F <sub>1</sub> (685 <sub>7</sub> ))	10	5	50,00
<b>telo 6</b>	F <sub>1</sub> BC <sub>1</sub> (Telo12 xF <sub>1</sub> (542 <sub>8</sub> ))	21	19	90,48
<b>telo 11</b>	F <sub>1</sub> BC <sub>1</sub> (Mo21xF <sub>1</sub> (100 <sub>1</sub> ))	5	3	60,00

Table 11.

Analysis of BC<sub>1</sub>F<sub>1</sub> backcross hybrid offspring obtained from crosses of recurrent parents with aneuploid F<sub>1</sub> (MoxPima 3-79 or Telo x Pima 3-79) hybrids

Chromosome	Crossing variant	Total number of hybrid plants in the family	Number of studied plants	Number of disomics (2n=52)	Number of monosomics (2n=51)	Number of monotelodisomics (2n=51+I')
2	F <sub>1</sub> BC <sub>1</sub> (Mo16xF <sub>1</sub> 98 <sub>6</sub> )					
	507 n	2	2	2	-	-
	922 n	8	1	-	-	-
	923 n	8	2	1	1	-
	F <sub>1</sub> BC <sub>1</sub> (Mo93xF <sub>1</sub> 516 <sub>2</sub> )					
	785 n	2	1	1	-	-
4	F <sub>1</sub> BC <sub>1</sub> (Mo7xF <sub>1</sub> 683 <sub>2</sub> )					
	508 n	5	5	5	-	-
	F <sub>1</sub> BC <sub>1</sub> (Mo31xF <sub>1</sub> 770 <sub>1</sub> )					
	924 n	6	-	-	-	-
	F <sub>1</sub> BC <sub>1</sub> (Mo38xF <sub>1</sub> 690 <sub>11</sub> )					
	294 n	5	5	5	-	-
	925 n	11	1	-	1	-
	F <sub>1</sub> BC <sub>1</sub> (Mo58xF <sub>1</sub> 530 <sub>3</sub> )					
	115 n	4	2	1	1	-
	116 n	6	3	3	-	-
	F <sub>1</sub> BC <sub>1</sub> (Mo59xF <sub>1</sub> 531 <sub>8</sub> )					
	1041 n	7	7	6	1	-
	F <sub>1</sub> BC <sub>1</sub> (Mo60xF <sub>1</sub> 694 <sub>5</sub> )					
	117 n	6	4	2	2	-
	118 n	5	1	1	-	-
	119 n	5	2	2	-	-
	120 n	1	1	1	-	-
	F <sub>1</sub> BC <sub>1</sub> (Mo75xF <sub>1</sub> 104 <sub>2</sub> )					
	298 n	8	5	3	2	-
6	F <sub>1</sub> BC <sub>1</sub> (Mo34xF <sub>1</sub> 688 <sub>9</sub> )					
	293 n	8	4	2	2	-
	F <sub>1</sub> BC <sub>1</sub> (Mo67xF <sub>1</sub> 308 <sub>1</sub> )					
	509 n	4	3	3	-	-
	F <sub>1</sub> BC <sub>1</sub> (Mo92xF <sub>1</sub> 539 <sub>5</sub> )					
	1040 n	3	3	2	1	-
	F <sub>1</sub> BC <sub>1</sub> (Mo95xF <sub>1</sub> 106 <sub>5</sub> )					
	927 n	3	-	-	-	-
7	F <sub>1</sub> BC <sub>1</sub> (Mo27xF <sub>1</sub> 687 <sub>4</sub> )					
	111 n	8	3	1	2	-
12	F <sub>1</sub> BC <sub>1</sub> (Mo94xF <sub>1</sub> 8 <sub>1</sub> )					
	299 n	7	3	1	2	-
	300 n	2	1	1	-	-
17	F <sub>1</sub> BC <sub>1</sub> (Mo56xF <sub>1</sub> 4 <sub>17</sub> )					
	512 n	6	5	5	-	-
	513 n	8	6	5	1	-
18	F <sub>1</sub> BC <sub>1</sub> (Mo48xF <sub>1</sub> 529 <sub>16</sub> )					
	113 n	14	6	5	1	-
	114 n	20	6	4	2	-
21	F <sub>1</sub> BC <sub>1</sub> (Mo42xF <sub>1</sub> 528 <sub>1</sub> )					
	781 n	1	-	-	-	-
	782 n	4	2	1	1	-
22	F <sub>1</sub> BC <sub>1</sub> (Mo17xF <sub>1</sub> 685 <sub>7</sub> )					
	109 n	2	2	2	-	-
	110 n	3	3	1	2	-

<b>telo 6</b>	F <sub>1</sub> BC <sub>1</sub> (Telo12xF <sub>1</sub> 542 <sub>8</sub> )					
	561 n	19	11	8	-	3
<b>telo 11</b>	F <sub>1</sub> BC <sub>1</sub> (Mo21xF <sub>1</sub> 100 <sub>1</sub> )					
	291 n	2	1	-	-	1
	292 n	1	1	-	-	1



Table 12.

Pairing of chromosomes at the metaphase I stage of meiosis in aneuploid BC<sub>1</sub>F<sub>1</sub> hybrids obtained from crosses of recurrent parents with aneuploid F<sub>1</sub> hybrids (Mo x Pima 3-79 or Telo x Pima 3-79)

Chromosome	Crossing variant	Hybrid	Number of examined cells in MI	Univalent size	Average number per cell	
					univalent	Bivalent
	L-458	-	11	-	0	26,00±0,00
	Pima 3-79	-	12	-	0	26,00±0,00
	F <sub>1</sub> (L-458xPima 3-79)	680	10	-	0	26,00±0,00
2	F <sub>1</sub> BC <sub>1</sub> (Mo16xF <sub>1</sub> 98 <sub>6</sub> )	923 <sub>8</sub>	5	Large	1,00±0,00	25,00±0,00
4	F <sub>1</sub> BC <sub>1</sub> (Mo38xF <sub>1</sub> 690 <sub>11</sub> )	925 <sub>4</sub>	11	Medium	1,00±0,00	25,00±0,00
	F <sub>1</sub> BC <sub>1</sub> (Mo58xF <sub>1</sub> 530 <sub>3</sub> )	115 <sub>1</sub>	21	Medium	1,00±0,00	25,00±0,00
	F <sub>1</sub> BC <sub>1</sub> (Mo59xF <sub>1</sub> 531 <sub>8</sub> )	1041 <sub>4</sub>	24	Medium	1,00±0,00	25,00±0,00
	F <sub>1</sub> BC <sub>1</sub> (Mo60xF <sub>1</sub> 694 <sub>5</sub> )	117 <sub>4</sub>	14	Medium	1,00±0,00	25,00±0,00
		117 <sub>5</sub>	28	Medium	1,00±0,00	25,00±0,00
	F <sub>1</sub> BC <sub>1</sub> (Mo75xF <sub>1</sub> 104 <sub>2</sub> )	298 <sub>2</sub>	20	Medium	1,00±0,00	24,67±0,25 (closed)- 0,33±0,25 (open)
		298 <sub>3</sub>	6	Medium	1,00±0,00	25,00±0,00
6	F <sub>1</sub> BC <sub>1</sub> (Mo34xF <sub>1</sub> 688 <sub>9</sub> )	293 <sub>3</sub>	4	Large	1,00±0,00	25,00±0,00
		293 <sub>7</sub>	4	Large	1,00±0,00	25,00±0,00
	F <sub>1</sub> BC <sub>1</sub> (Mo92xF <sub>1</sub> 539 <sub>5</sub> )	1040 <sub>2</sub>	11	Large	1,00±0,00	25,00±0,00
7	F <sub>1</sub> BC <sub>1</sub> (Mo27xF <sub>1</sub> 687 <sub>4</sub> )	111 <sub>2</sub>	24	Medium	1,00±0,00	25,00±0,00
		111 <sub>5</sub>	14	Medium	1,00±0,00	25,00±0,00
12	F <sub>1</sub> BC <sub>1</sub> (Mo94xF <sub>1</sub> 8 <sub>1</sub> )	299 <sub>1</sub>	12	Large	1,00±0,00	25,00±0,00
		299 <sub>2</sub>	9	Large	1,00±0,00	25,00±0,00
17	F <sub>1</sub> BC <sub>1</sub> (Mo56xF <sub>1</sub> 4 <sub>17</sub> )	513 <sub>8</sub>	6	Medium-small	1,00±0,00	25,00±0,00
18	F <sub>1</sub> BC <sub>1</sub> (Mo48xF <sub>1</sub> 529 <sub>16</sub> )	113 <sub>16</sub>	5	Small	1,00±0,00	25,00±0,00
		114 <sub>1</sub>	36	Small	1,00±0,00	25,00±0,00
		114 <sub>20</sub>	10	Small	1,00±0,00	25,00±0,00
21	F <sub>1</sub> BC <sub>1</sub> (Mo42xF <sub>1</sub> 528 <sub>1</sub> )	782 <sub>1</sub>	5	Medium-small	1,00±0,00	25,00±0,00
22	F <sub>1</sub> BC <sub>1</sub> (Mo17xF <sub>1</sub> 685 <sub>7</sub> )	110 <sub>1</sub>	7	Medium-small	1,00±0,00	25,00±0,00
		110 <sub>3</sub>	8	Medium-small	1,00±0,00	24,25±0,35**
telo 6	F <sub>1</sub> BC <sub>1</sub> (Telo12x F <sub>1</sub> 542 <sub>8</sub> )	561 <sub>15</sub>	21	0	0	26,00±0,00*
		561 <sub>17</sub>	18	0	0	26,00±0,00*
telo 11	F <sub>1</sub> BC <sub>1</sub> (Mo21x F <sub>1</sub> 100 <sub>1</sub> )	291 <sub>1</sub>	17	0	0	26,00±0,00*
		292 <sub>1</sub>	12	0	0	26,00±0,00*

\* Note –25 normal (closed) bivalents and one heteromorphic (open) bivalent.

\*\* Note - one univalent plus from 23 to 25 normal (closed) bivalents and one quadrivalent ( $0.38 \pm 0.17$  on average per cell).

Table 13.

Analysis of spores in BC<sub>1</sub>F<sub>1</sub> hybrids obtained from crosses of recurrent parents with aneuploid F<sub>1</sub> hybrids  
(Mo x Pima 3-79 or Telo x Pima 3-79)

Chromosome	Crossing variant	Hybrid	Total number of microspores	Meiotic index, %	% of tetrads with micronuclei
	L-458	-	1121	99,38±0,24	0,00±0,00
	Pima 3-79	-	1130	98,58±0,35	0,27±0,15
	F <sub>1</sub> L-458 x Pima 3-79	680	2535	98,62±0,23	0,04±0,04
<b>2</b>	F <sub>1</sub> BC <sub>1</sub> (Mo16xF <sub>1</sub> 98 <sub>6</sub> )	923 <sub>8</sub>	-	-	-
	F <sub>1</sub> BC <sub>1</sub> (Mo38xF <sub>1</sub> 690 <sub>11</sub> )	925 <sub>4</sub>	384	95,31±1,08	2,60±0,81
	F <sub>1</sub> BC <sub>1</sub> (Mo58xF <sub>1</sub> 530 <sub>3</sub> )	115 <sub>1</sub>	5534	95,61±0,28	0,11±0,04
	F <sub>1</sub> BC <sub>1</sub> (Mo59x F <sub>1</sub> 531 <sub>8</sub> )	1041 <sub>4</sub>	2485	98,99±0,20	0,12±0,07
	F <sub>1</sub> BC <sub>1</sub> (Mo60xF <sub>1</sub> 694 <sub>5</sub> )	117 <sub>4</sub>	2715	92,90±2,66	0,44±0,19
		117 <sub>5</sub>	1703	95,71±0,49	1,17±0,26
	F <sub>1</sub> BC <sub>1</sub> (Mo75x F <sub>1</sub> 104 <sub>2</sub> )	298 <sub>2</sub>	1168	96,48±0,54	0,94±0,28
		298 <sub>3</sub>	598	96,49±0,75	1,34±0,47
<b>6</b>	F <sub>1</sub> BC <sub>1</sub> (Mo34xF <sub>1</sub> 688 <sub>9</sub> )	293 <sub>3</sub>	6450	95,72±0,25	0,99±0,12
		293 <sub>7</sub>	5586	98,69±0,15	0,05±0,03
	F <sub>1</sub> BC <sub>1</sub> (Mo92xF <sub>1</sub> 539 <sub>5</sub> )	1040 <sub>2</sub>	663	89,89±1,17	1,21±0,42
<b>7</b>	F <sub>1</sub> BC <sub>1</sub> (Mo27xF <sub>1</sub> 687 <sub>4</sub> )	111 <sub>2</sub>	1292	95,43±0,58	0,54±0,20
		111 <sub>5</sub>	657	96,65±0,70	0,61±0,30
<b>12</b>	F <sub>1</sub> BC <sub>1</sub> (Mo94xF <sub>1</sub> 8 <sub>1</sub> )	299 <sub>1</sub>	-	-	-
		299 <sub>2</sub>	1486	96,37±0,49	1,55±0,32
<b>17</b>	F <sub>1</sub> BC <sub>1</sub> (Mo56xF <sub>1</sub> 41 <sub>7</sub> )	513 <sub>8</sub>	-	-	-
<b>18</b>	F <sub>1</sub> BC <sub>1</sub> (Mo48xF <sub>1</sub> 529 <sub>16</sub> )	113 <sub>16</sub>	-	-	-
		114 <sub>1</sub>	2000	97,95±0,32	0,85±0,21
		114 <sub>20</sub>	3170	97,60±0,27	0,06±0,04
<b>21</b>	F <sub>1</sub> BC <sub>1</sub> (Mo42xF <sub>1</sub> 528 <sub>1</sub> )	782 <sub>1</sub>	-	-	-
<b>22</b>	F <sub>1</sub> BC <sub>1</sub> (Mo17xF <sub>1</sub> 685 <sub>7</sub> )	110 <sub>1</sub>	3038	99,37±0,14	0,07±0,05
		110 <sub>3</sub>	2806	98,97±0,19	0,14±0,07
<b>telo 6</b>	F <sub>1</sub> BC <sub>1</sub> (Telo12xF <sub>1</sub> 542 <sub>8</sub> )	561 <sub>15</sub>	2106	98,43±0,27	0,90±0,21
		561 <sub>17</sub>	-	-	-
<b>telo 11</b>	F <sub>1</sub> BC <sub>1</sub> (Mo21xF <sub>1</sub> 100 <sub>1</sub> )	291 <sub>1</sub>	548	92,34±1,14	2,55±0,67
		292 <sub>1</sub>	2191	92,38±0,57	2,46±0,33

**Table 14.**

**Analysis of pollen fertility in aneuploid BC<sub>1</sub>F<sub>1</sub> hybrids obtained from crosses of recurrent parents with aneuploid F<sub>1</sub> hybrids (Mo x Pima 3-79 or Telo x Pima 3-79)**

Chromosome	Crossing variant	Hybrid	Total pollen count	Pollen fertility, %	Pollen sterility, %
	L-458	-	628	90,92 ± 1,15	9,08 ± 1,15
	Pima 3-79	-	581	84,34 ± 1,51	15,66 ± 1,51
	F <sub>1</sub> L-458 x Pima 3-79	680	536	80,78 ± 1,70	19,22 ± 1,70
<b>2</b>	F <sub>1</sub> BC <sub>1</sub> (Mo16xF <sub>1</sub> 98 <sub>6</sub> )	923 <sub>8</sub>	-	-	-
<b>4</b>	F <sub>1</sub> BC <sub>1</sub> (Mo38xF <sub>1</sub> 690 <sub>11</sub> )	925 <sub>4</sub>	-	-	-
	F <sub>1</sub> BC <sub>1</sub> (Mo58xF <sub>1</sub> 530 <sub>3</sub> )	115 <sub>1</sub>	1789	91,45 ± 0,66	8,55 ± 0,66
	F <sub>1</sub> BC <sub>1</sub> (Mo59xF <sub>1</sub> 531 <sub>8</sub> )	1041 <sub>4</sub>	1048	89,79 ± 0,94	10,21 ± 0,94
	F <sub>1</sub> BC <sub>1</sub> (Mo60xF <sub>1</sub> 694 <sub>3</sub> )	117 <sub>4</sub>	1048	67,27 ± 1,45	32,73 ± 1,45
		117 <sub>5</sub>	715	78,60 ± 1,53	21,40 ± 1,53
	F <sub>1</sub> BC <sub>1</sub> (Mo75xF <sub>1</sub> 104 <sub>2</sub> )	298 <sub>2</sub>	576	84,38 ± 1,51	15,63 ± 1,51
		298 <sub>3</sub>	-	-	-
<b>6</b>	F <sub>1</sub> BC <sub>1</sub> (Mo34xF <sub>1</sub> 688 <sub>9</sub> )	293 <sub>3</sub>	1019	84,89 ± 1,12	15,1 ± 1,12
		293 <sub>7</sub>	480	90,63 ± 1,33	9,38 ± 1,33
	F <sub>1</sub> BC <sub>1</sub> (Mo92xF <sub>1</sub> 539 <sub>5</sub> )	1040 <sub>2</sub>	1341	81,80 ± 1,05	18,20 ± 1,05
<b>7</b>	F <sub>1</sub> BC <sub>1</sub> (Mo27xF <sub>1</sub> 687 <sub>4</sub> )	111 <sub>2</sub>	538	80,30 ± 1,71	19,70 ± 1,71
		111 <sub>5</sub>	572	83,57 ± 1,55	16,43 ± 1,55
<b>12</b>	F <sub>1</sub> BC <sub>1</sub> (Mo94xF <sub>1</sub> 81)	299 <sub>1</sub>	719	96,38±0,70	3,62±0,70
		299 <sub>2</sub>	640	95,63±0,81	4,38±0,81
<b>17</b>	F <sub>1</sub> BC <sub>1</sub> (Mo56xF <sub>1</sub> 417)	513 <sub>8</sub>	669	90,43±1,14	9,57±1,14
<b>18</b>	F <sub>1</sub> BC <sub>1</sub> (Mo48xF <sub>1</sub> 529 <sub>16</sub> )	113 <sub>16</sub>	-	-	-
		114 <sub>1</sub>	687	81,51 ± 1,48	18,49 ± 1,48
		114 <sub>20</sub>	491	95,72 ± 0,91	4,28 ± 0,91
<b>21</b>	F <sub>1</sub> BC <sub>1</sub> (Mo42xF <sub>1</sub> 528 <sub>1</sub> )	782 <sub>1</sub>	-	-	-
<b>22</b>	F <sub>1</sub> BC <sub>1</sub> (Mo17xF <sub>1</sub> 685 <sub>7</sub> )	110 <sub>1</sub>	680	72,35±1,72	27,65±1,72
		110 <sub>3</sub>	1510	82,38±0,98	17,62±0,98
<b>telo 6</b>	F <sub>1</sub> BC <sub>1</sub> (Telo12xF <sub>1</sub> 542 <sub>8</sub> )	561 <sub>15</sub>	655	85,65±1,37	14,35±1,37
		561 <sub>17</sub>	-	-	-
<b>telo 11</b>	F <sub>1</sub> BC <sub>1</sub> (Mo21xF <sub>1</sub> 100 <sub>1</sub> )	291 <sub>1</sub>	661	89,41±1,20	10,59±1,20
		292 <sub>1</sub>	453	91,61 ± 1,30	8,39 ± 1,30