Overall Reticulata Hybridizing Results

Year	Tried	Successful		Seeds	#/Pod
1983	78	19 (24%)	gave	106	5.6
1984	249	97 (39%)	gave	1751	18.1
1985	290	130 (45%)	gave	1452	11.2
1986	170	75 (44%)	gave	564	7.5
1987	271	96 (35%)	gave	1162	12.1
1988	295	63 (21%)	gave	1280	20.3
1989	175	64 (37%)	gave	997	15.6
1990	245	93 (38%)	gave	945	10.2
1991	281	123 (44%)	gave	1965	16.0
1992	495	265 (54%)	gave	3952	14.9
1993	480	278 (58%)	gave	3978	14.3
1994	639	371 (58%)	gave	5943	16.0
1995	538	297 (55%)	gave	3528	11.9
1996	823	486 (59%)	gave	6242	12.8
1997	895	400 (45%)	gave	5116	12.8
1998	845	564 (67%)	gave	9062	16.1
1999	1120	721 (64%)	gave	9864	13.7
2000	957	517 (54%)	gave	6336	12.3
2001	1099	575 (52%)	gave	8860	15.4
2002	1325	518 (39%)	gave	7476	14.4
2003	1199	496 (41%)	gave	6428	13.0
2004	468	167 (36%)	gave	3143	18.8
2005	465	196 (42%)	gave	3455	17.6
2006	496	198 (39%)	gave	3601	18.2
2007	477	94 (20%)	gave	1058	11.3
2008	388	158 (41%)	gave	2489	15.7
2009	1401	434 (11%)	gave	5746	13.2
2010	614	113 (19%)	gave	1737	15.4
2011	636	329 (52%)	gave	5684	17.3
2012	692	221 (32%)	gave	3360	15.3
2013	808	341 (42%)	gave	5467	16.0
2014	964	453 (47%)	gave	6034	13.3
2015	688	169 (25%)	gave	2086	12.3
2016	508	199 (39%)	gave	3287	16.5
2017	724	308 (43%)	gave	4966	16.1
2018	631	137 (22%)	gave	1645	12.0
2019	623	195 (31%)	gave	2804	14.3
2020	674	263 (39%)	gave	4164	15.8
2021	529	123 (23%)	gave	2064	16.8
Total	23,837	9,916 (42%)	gave	145,532	

Bee Seed

Pods		Seeds	#/Pod
241	gave	3022	12.5
210	gave	2586	12.3
419	gave	5642	13.5
473	gave	6647	14.1
(none!)			
(none!)			
940	gave	11381	12.1
829	gave	10651	12.8
552	gave	7106	12.8
107	gave	1543	14.4
141	gave	2172	15.4
25	gave	68	8.5
20	gave	270	13.5
16	gave	165	11.8
221	gave	3006	13.8
40	gave	355	11.4
113	gave	1185	11.0
51	gave	423	8.3
4	gave	34	8.5
28	gave	325	11.6
7	gave	85	12.1
15	gave	204	13.6
21	gave	246	11.7
15	gave	193	11.7
4,550	gave	59,174	

Juno Hybridizing Results

Year	Tried	Successful		Seeds	#/Pod
1983	11	7 (64%)	gave	139	19.9
1984	36	15 (42%)	gave	365	24.3
1985	none - coll. in Turkey				
1986	none - coll. in Turkey				
1987	132	16 (12%)	gave	118	7.4
1988	59	19 (33%)	gave	389	20.5
1989	182	38 (21%)	gave	655	17.2
1990	385	101 (26%)	gave	1462	14.5
1991	846	320 (38%)	gave	4629	14.5
1992	767	309 (40%)	gave	4881	15.8
1993	507	225 (44%)	gave	2871+	12.8
1994	622	361 (58%)	gave	6690+	18.5
1995	648	414 (64%)	gave	7900+	19.1
1996	574	306 (53%)	gave	5013	16.3
1997	519	293 (56%)	gave	6596	12.7
1998	417	171 (41%)	gave	3151	18.4
1999	355	177 (50%)	gave	3085	17.5
2000	234	71 (30%)	gave	1120	15.8
2001	278	116 (42%)	gave	1939	16.4
2002	286	79 (28%)	gave	1460	18.5
Not analysed after 2002					

Note: starting in 2014, bee seed to be sold is not included in 'Bee Seed'.

Of the 1185 bee seeds in 2014, 532 were from F1 "Just Blues", and the majority of the remainder were from higher level crosses involving Iris *danfordiae*.

In 2014 over 7,000 seeds were planted (6034 + 1185)

Hybridizing statistics on this and following pages have not been updated because they don't have the same significance that they once did.
Note: no double counting has been done in the table below

Cat x *danfordiae*: 88-AX-1/2/3

	As Pod Parent									As Pollen Parent								
	x self			With s x d or *danf.* Pollen			Using Other Pollen			On s x d Pods			On *danfordiae* Pods			Onto Other Pods		
Year	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds
1995	-	-		1	0	-	-	-		-	-		3	3[100%] gave	26	6	2[33%] gave	36
1997	-	-		1	1	gave 3	-	-		3	1[33%] gave	24	1	0	-	3	2[67%] gave	23
1998	3	3[100%] gave	24	1	0	-	-	-		14	8[57%] gave	188	5	5[100%] gave	150	3	2[67%] gave	26
1999	2	2[100%] gave	11	2	2[100%] gave	13	1	1[100%] gave	18	35	25[71%] gave	290	1	0	-	12	7[58%] gave	62
2000	-	-		2	2[100%] gave	26	-	-		21	8[38%] gave	65	1	1[100%] gave	8	5	1[20%] gave	25
2001	-	-		3	3[100%] gave	69	-	-		37	16[43%] gave	285	1	1[100%] gave	16	-	-	
2003	-	-		3	2[66%] gave	16	-	-		42	12[29%] gave	134	-	-		-	-	
2004	-	-		2	0	-	-	-		2	1[50%] gave	20	-	-		-	-	
2005	-	-		1	0	-	-	-		6	4[67%] gave	85	-	-		-	-	
2006	-	-		1	1[100%] gave	13	-	-		-	-		-	-		-	-	

Iris *winogradowii*

	As Pod Parent				As Pollen Parent			
Year	Tried	Successful		Seeds	Tried	Successful		Seeds
1990	2	0	-		14	3[21%]	gave	23
1992	5	1[20%]	gave	12[1]	36	20[56%]	gave	308
1997	3	0	-		38	4[11%]	gave	14[2]
1998	11	3[27%]	gave	4	98	54[55%]	gave	646
1999	2	0	-		6	1[17%]	gave	7
2002	3	0	-		0		-	
2003	1	0	-		20	9[45%]	gave	133

Armenian Caucasus Alba

	As Pod Parent				As Pollen Parent			
Year	Tried	Successful		Seeds	Tried	Successful		Seeds
1994	1	1	gave	15	16	8[50%]	gave	61
1995	1	0	-		10	6[60%]	gave	47
1998	1	1	gave	16	13	6[46%]	gave	94
1999	1	1	gave	15	28	19[68%]	gave	452
2003	1	1	gave	5	17	12[71%]	gave	204
2004	1	1	gave	8	10	4[40%]	gave	62

Iran Ameona

	As Pod Parent				As Pollen Parent			
Year	Tried	Successful		Seeds	Tried	Successful		Seeds
2000	2	0	-		26	10[38%]	gave	98
2001	1	0	-		9	2[22%]	gave	18

Diploid *danfordiae*

	As Pod Parent				As Pollen Parent			
Year	Tried	Successful		Seeds	Tried	Successful		Seeds
1986	1	0	-		9	2[22%]	gave	8
1987	1	0	-		18	4[22%]	gave	89
1988	4	1[25%]	gave	19	57	21[37%]	gave	341
1989	4	2[50%]	gave	17	34	14[41%]	gave	272
1990	1	1	gave	9	10	6[60%]	gave	101
1991	23	19[83%]	gave	318	63	30[48%]	gave	474
1992	49	33[67%]	gave	459	75	38[51%]	gave	672
1993	22	2 [9%]	gave	5	31	15[48%]	gave	270
1994	32	16[50%]	gave	218	34	15[44%]	gave	307
1995	16	12[75%]	gave	117	30	21[70%]	gave	340
1996	23	7[30%]	gave	89	45	27[60%]	gave	468
1997	10	7[70%]	gave	96	43	23[53%]	gave	485
1998	25	14[56%]	gave	352	109	75[69%]	gave	1310
1999	8	5[63%]	gave	72	38	20[53%]	gave	322
2000	18	15[83%]	gave	201	35	16[46%]	gave	211
2001	11	8[73%]	gave	147	38	22[59%]	gave	366
2002	11	5[45%]	gave	73	36	7[19%]	gave	62
2003	7	4[57%]	gave	64	-		-	
2004	7	1[14%]	gave	10	-		-	
2005	-		-		-		-	

[1] Seeds were soft and may not have been good.
[2] Cross onto *histrioides* gave 11 of these, plus one each were from two crosses onto diploid *danfordiae*.

Note: no double counting has been done in the sxd F1, F2, F3, and miscellaneous cross tables on the next 3 pages. All of the tables taken together apply to each year's data as a whole.

Iris x *mcmurtriei* (*sophenensis* x *danfordiae*) – F_1 Crosses

		Used s x d Pollen				s x d Pod Parents[3]				$F_2 = F_1 \times F_1$[4]				*danfordiae* x (s x d)				(s x d) x *danfordiae*			
Year	Blooms[5]	Tried	Successful		Seeds	Tried	Successful		Seeds	Tried	Successful		Seeds	Tried	Successful		Seeds	Tried	Successful		Seeds
1994	16	3	2[66%]	gave	27	2	1[50%]	gave	1	14	10[71%]	gave	130	-		-		-		-	
1995	36	66	31[47%]	gave	266	13	7[54%]	gave	53	19	17[89%]	gave	232	4	2[50%]	gave	14	2	2[100]	gave	55
1996	88	62	38[61%]	gave	557	66	35[53%]	gave	222	16	6[38%]	gave	76	4	1[25%]	gave	31	9	4[44%]	gave	77
1997	126	37	21[57%]	gave	247	45	8[18%]	gave	58	71	33[46%]	gave	689	4	2[50%]	gave	52	19	12[63%]	gave	301
1998	262	27	13[48%]	gave	173	49	32[65%]	gave	282	63	57[90%]	gave	965	4	2[50%]	gave	31	31	24[77%]	gave	495
1999	340	46	28[61%]	gave	492	78	34[44%]	gave	199	182	129[71%]	gave	1465	1	1[100]	gave	11	13	9[69%]	gave	121
2000	306	161	67[42%]	gave	715	43	10[23%]	gave	52	98	33[34%]	gave	256	8	6[75%]	gave	52	31	14[45%]	gave	177
2001	>1000	51	29[57%]	gave	299	221	91[41%]	gave	1232	242	144[60%]	gave	2145	1	0	-		37	22[59%]	gave	366
2002	>1000	7	3[43%]	gave	14	16	7[44%]	gave	130	89	30[34%]	gave	444	-		-		36	7[19%]	gave	62
2003	>1000	4	0	-		4	0	-		17	13[76%]	gave	110	-		-		-		-	
2004	>1000	-		-		7	3[43%]	gave	49	27	26[96%]	gave	296	-		-		-		-	
2005	>1000	-		-		7	1[14%]	gave	3	7	4[57%]	gave	12	-		-		-		-	
2006	>1000	-		-		13	1 [8%]	gave	9	4	3[75%]	gave	22	-		-		-		-	
2007	>100	-		-		8	2[25%]	gave	15	-		-		-		-		-		-	

Iris x *mcmurtriei* (*sophenensis* x *danfordiae*) – F_1 Crosses cont.

	$F_1 \times F_2$				F_1 x Compound[6]				F_1 x Çat				F_1 x sophenensis			
Year	Tried	Successful		Seeds	Tried	Successful		Seeds	Tried	Successful		Seeds	Tried	Successful		Seeds
1997	-		-		3	1[33%]	gave	24	-		-		-		-	
1998	-		-		15	9[60%]	gave	188	-		-		-		-	
1999	26	20[77%]	gave	332	35	25[71%]	gave	290	1	1[100]	gave	9	-		-	
2000	82	40[49%]	gave	510	22	9[41%]	gave	65	-		-		-		-	
2001	229	110[48%]	gave	1818	38	16[42%]	gave	283	32	15[47%]	gave	203	-		-	
2002	601	169[28%]	gave	2173	57	20[35%]	gave	268	10	6[60%]	gave	82	12	5[42%]	gave	70
2003	324	65[20%]	gave	624	195	57[29%]	gave	589	24	2 [8%]	gave	18	5	1[20%]	gave	16
2004	15	6[40%]	gave	101	74	17[23%]	gave	226	-		-		-		-	
2005	107	20[20%]	gave	134	44	15[34%]	gave	180	-		-		-		-	
2006	110	28[25%]	gave	362	30	8[27%]	gave	136	-		-		-		-	
2007	111	23[21%]	gave	220	23	5[22%]	gave	42	-		-		-		-	

[3] *Sophenensis* x *danfordiae* pod parent with pollen from other Retics.

[4] *Sophenensis* x *danfordiae* clones intercrossed (should bring out a wider range of expressions in the F_2 generation).

[5] Not counting those of bulbs given out for testing: ?# 1997; 20 in 1998

[6] Compound = multi generation within danfordiae, sophenensis, and Çat

Iris x *mcmurtriei* (*sophenensis* x *danfordiae*) – F_2 Crosses

Year	Blooms[8]	Used F_2 Pollen Tried	Used F_2 Pollen Successful	Used F_2 Pollen Seeds	F_2 Pod Parents[7] Tried	F_2 Pod Parents[7] Successful	F_2 Pod Parents[7] Seeds	$F_3 = F_2$ x F_2 Tried	$F_3 = F_2$ x F_2 Successful	$F_3 = F_2$ x F_2 Seeds	*danfordiae* x F_2 Tried	*danfordiae* x F_2 Successful	*danfordiae* x F_2 Seeds	F_2 x *danfordiae* Tried	F_2 x *danfordiae* Successful	F_2 x *danfordiae* Seeds
1999	2	1	1[100] gave	8	-	-		2	0 -		4	3[67%] gave	59	-	-	
2000	8	8	3[38%] gave	16	-	-		8	6[75%] gave	98	8	7[87%] gave	131	-	-	
2001	27	12	8[67%] gave	126	-	-		22	16[73%] gave	267	8	6[75%] gave	116	-	-	
2002	67	5	0 -		-	-		58	20[34%] gave	275	7	4[57%] gave	57	-	-	
2003	148	30	4[13%] gave	171	3	2[67%] gave	19	62	30[48%] gave	383	2	2[100] gave	38	-	-	
2004	296	14	4[29%] gave	32	-	-		84	35[42%] gave	769	-	-		-	-	
2005	262	16	6[38%] gave	119	9	5[56%] gave	90	134	85[63%] gave	1732	-	-		-	-	
2006	241	29	9[31%] gave	169	8	2[25%] gave	23	158	74[47%] gave	1371	-	-		-	-	
2007	269	18	1 [6%] gave	15	11	2[18%] gave	24	139	26[19%] gave	307	-	-		-	-	

Iris x *mcmurtriei* (*sophenensis* x *danfordiae*) – F_2 Crosses cont.

Year	F_2 x F_1 Tried	F_2 x F_1 Successful	F_2 x F_1 Seeds	Compound x F_2 Tried	Compound x F_2 Successful	Compound x F_2 Seeds	F_2 x Compound Tried	F_2 x Compound Successful	F_2 x Compound Seeds	Çat x F_2 Tried	Çat x F_2 Successful	Çat x F_2 Seeds	sophenensis x F_2 Tried	sophenensis x F_2 Successful	sophenensis x F_2 Seeds
1999	-	-		-	-		-	-		-	-		-	-	
2000	-	-		2	2[100] gave	26	-	-		-	-		-	-	
2001	1	0 -		3	3[100] gave	69	-	-		2	1[50%] gave	42	-	-	
2002	-	-		1	0 -		10	1[13%] gave	15	4	1[25%] gave	17	3	1[33%] gave	5
2003	1	1 [100] gave	4	14	10[71%] gave	237	51	27[53%] gave	353	1	1[100] gave	5	8	0 -	
2004	8	6[75%] gave	58	18	5[28%] gave	135	107	39[36%] gave	747	-	-		-	-	
2005	3	3 [100] gave	14	22	9[41%] gave	189	77	40[52%] gave	847	-	-		2	1 [50%] -	27
2006	11	10[91%] gave	153	16	12[75%] gave	270	29	16[55%] gave	315	1	1[100] gave	13	1	0 -	
2007	4	3[75%] gave	65	20	8[40%] gave	115	70	13[19%] gave	204	-	-		1	0 -	

Iris x *mcmurtriei* (*sophenensis* x *danfordiae*) – Miscellaneous Crosses

Year	*danfordiae* x Compound Tried	*danfordiae* x Compound Successful	*danfordiae* x Compound Seeds	Compound x Compound Tried	Compound x Compound Successful	Compound x Compound Seeds	Çat x Compound Tried	Çat x Compound Successful	Çat x Compound Seeds	*sophenensis* x Compound Tried	*sophenensis* x Compound Successful	*sophenensis* x Compound Seeds	Çat x *sophenensis* Tried	Çat x *sophenensis* Successful	Çat x *sophenensis* Seeds
2002	4	1[25%] gave	16	3	1[33%] gave	19	-	-		-	-		2	0 -	
2003	5	2[40%] gave	26	9	8[89%] gave	88	-	-		9	5[56%] gave	98	-	-	
2004	7	1[14%] gave	10	36	19[53%] gave	459	3	2[67%] gave	18	5	1[20%] gave	18	-	-	
2005	-	-		17	10[59%] gave	127	-	-		-	-		-	-	
2006	-	-		4	1[25%] gave	44	-	-		1	0 -		-	-	
2007	1	0 -		4	2[50%] gave	15	-	-		1	0 -		-	-	

[7] *Sophenensis* x *danfordiae* F_2 pod parent with pollen from other Retics.

[8] F_2 and Compound blooms

Iris x *mcmurtriei* (*sophenensis* x *danfordiae*) – F_3 Crosses

		Used F_3 Pollen			F_3 Pod Parents[9]			$F_4 = F_3 \times F_3$			$F_3 \times F_2$			$F_2 \times F_3$		
Year	Blooms	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds
2006	4	1	0	-	-	-		-	-		3	1[33%] gave	10	10	5[50%] gave	46
2007	10	-		-	-	-		-	-		3	0 -		14	1 [7%] gave	10

Iris x *mcmurtriei* (*sophenensis* x *danfordiae*) – F_3 Crosses cont.

	$F_3 \times F_1$			$F_1 \times F_3$			$F_3 \times$ Compound			Compound $\times F_3$					
Year	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds
2006	1	1[100] gave	7	4	1[25%] gave	20	-	-		1	1[100] gave	6		-	
2007	-	-		4	1[25%] gave	8	1	0 -		4	2[50%] gave	31		-	

[9] *Sophenensis* x *danfordiae* F2 pod parent with pollen from other Retics.