

TAZETTA PROJECT FOR THE ISLES OF SCILLY

Horticultural Development Council project BOF 14 1988-93

FINAL REPORT

Isles of Scilly Station, St Mary's

FINAL REPORT FOR HORTICULTURAL DEVELOPMENT COUNCIL

Final report: 1993
Project Number: BOF 14
Project Title: Tazetta Project for the Isles Of Scilly.
Project Leader: Andrew Tompsett 1988-89 and 1992-93
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Location of Project: Trenoweth R&D Station LTD, St Marys,
Isles of Scilly.
Project Co-ordinator: David Wright (Tel. 0720 22324)
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Date completion due: 1993
Final completion: The project will continue until all the
material has been evaluated. The estimated
date of final completion is 1997.

Keywords: Narcissus
(see glossary) Tazetta
Breeding
Burning over

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Introduction.

The Tazetta improvement programme formed part of a larger narcissus breeding project carried out at Rosewarne E.H.S., Camborne, Cornwall, between 1963 and 1983. The tazetta programme aimed to produce improved varieties for the Isles of Scilly, this being the only area in the UK where "true" tazettas (see glossary) can be reliably grown commercially.

A specific objective was the raising of naturally early flowering stocks.

Early varieties generally attract good returns, but also have the potentially very important advantage of not requiring laborious and costly advancing techniques which are currently applied to existing varieties to meet the early market.

The work began in 1963, when Director, Jim Eaton, and Scientific Officer, Barbara Fry, saw the potential of using extremely early flowering parents to produce earlier commercial varieties. The two principal parents used were, Rijnveld's Early Sensation for Trumpet daffodils, and Autumn Sol for Tazettas.

The tazetta seedlings underwent initial selection at Rosewarne, where, because they are not reliably hardy, they were grown under frames for frost protection. From 1985 onwards an increasing number of the more promising stocks were sent to St Mary's for assessment under field conditions.

Some early releases into commerce were made through the offices of NSDO, (Registered as Innisidgen and Wingletang - 1982), partly to test the tendering system, but it was clear that extensive trialling would be needed to select only the best material for future releases.

In 1988 Isles of Scilly growers negotiated a 5-year contract with MAFF to acquire all the tazetta stocks and pay for their trialling, propagation and distribution. This work was supported by HDC and the Duchy of Cornwall. Since then a steady process of testing and evaluation has gone on with stock discarded, propagated or distributed to shareholders as each merited. The Trenoweth station Advisory Committee were initially the final arbiters in what was often a difficult task. Rigorous initial selection by Miss Fry at Rosewarne meant that few stocks was really poor. Earliness of flowering was an important factor and balancing natural earliness with possible slight defects in overall quality or performance was often problematical.

Since the establishment of Trenoweth R & D in 1992 selection decisions were guided by the Trenoweth Board and the Tazetta committee, based upon the assessments and records obtained from the plots.

Outline of methods.

Over the period 1988 - 93, 35 tazetta seedlings were evaluated, but, since quantities of some stocks were initially limited, not all of these have appeared in the trials every year.

The plots consisting of 24 bulbs set out in a random but unreplicated layout received normal good cultivation, including warm-water treatment each time they were transplanted. Plots were replanted every third year and records taken in the 2nd or 3rd year.

Each trial was in two sections:

A. Untreated.

B. Burnt over three times each summer using a propane gas burner. The burning treatments were at weekly intervals during the late June - early July period.

The following records were taken:

- * Initial bulb weight per plot.
- * Emergence date.
- * Date of first open flower.
- * Estimated date of full flower, ie. when 50% of the flowers on the plot were open.
- * Date of last flower to open.
- * Flower numbers per plot.
- * Assessment of overall flower quality and performance.
- * Bulb weight at end of trial period.

Quality assessment is a somewhat subjective matter, and the appearance of a flower has to be weighed against other positive or negative factors when arriving at a decision.

Field assessments were made by awarding a grade category 1-4, as follows:

1. Poor quality and potential. Destroy stock.
2. Fair quality and potential but having significant faults. Continue in trial for the present.
3. Good quality and potential. Showing promise but needing further assessment before giving final approval.
4. Very good quality and potential. Sufficient data exist to recommend distribution to shareholding members, or if quantity of stock still limited, then propagation for distribution two years later.

In selecting stocks for future commercial development the need to maintain high quality standards has been of prime importance. Stocks falling significantly below the standards set by Soleil d'Or, Primo or Avalanche are not required even if they are early flowering, since they may damage the market reputation for the main Scillonian crops to follow.

Results.

Emergence Dates 1990/91 and 1991/92

Stock	Untreated		Burnt over		Difference (+ or - days)	
	1990/91	1991/92	1990/91	1991/92	'90/91	'91/92
1	17/9	28/10	17/9	-	0	-
2	10/9	13/11	28/8	28/10	-13	-16
3	3/9	28/10	3/9	-	0	-
6	17/9	28/10	10/9	28/10	-7	0
7	24/9	13/11	17/9	28/10	-7	-16
9	17/9	28/10	17/9	21/10	0	-7
11	17/9	6/11	10/9	28/10	-7	-9
12	3/9	6/11	3/9	28/10	0	-9
13	1/10	28/10	17/9	28/10	-14	0
14	17/9	28/10	17/9	18/10	0	0
15	17/9	28/10	10/9	28/10	-7	0
16	17/9	28/10	3/9	28/10	-14	0
18	17/9	28/10	17/9	28/10	0	0
19	15/10	27/11	22/9	13/11	-23	-14
20	8/10	28/10	17/9	28/10	-21	0
21	1/10	28/10	-	-	-	-
22	3/9	28/10	27/8	28/10	-7	0
23	3/9	28/10	3/9	28/10	0	0
24	20/8	28/10	20/8	28/10	0	0
25	15/10	13/11	-	-	-	-
26	24/9	28/10	24/9	28/10	0	0
27	17/9	28/10	17/9	28/10	0	0
28	1/10	28/10	1/10	28/10	0	0
29	8/10	6/11	1/10	28/10	-7	-9
30	1/10	13/11	24/9	28/10	-7	-16
32	1/10	13/11	-	-	-	-
33	15/10	2/1	8/10	-	-7	-
34	12/11	14/1	-	18/11	-	-57
35	1/10	13/11	1/10	13/11	0	0
36	24/9	28/10	24/9	2/10	0	0
37	24/9	13/11	10/9	28/10	-14	-16
38	15/10	27/11	1/10	21/10	-14	-37
39	8/10	27/11	24/9	28/10	-14	-30
40	1/10	27/11	-	13/11	-	-14
41	8/10	21/11	1/10	27/11	-7	-6
42	1/10	27/11	8/10	28/10	+7	-30
43	10/9	28/10	10/9	-	0	-
44	8/10	27/11	-	-	-	-
45	1/10	13/11	-	-	-	-
46	22/10	27/11	15/10	28/10	-7	-30
47	1/10	28/10	10/9	28/10	-21	0
48	3/9	13/11	-	-	-	-
49	3/9	28/10	-	-	-	-

[cont.]

Emergence Dates 1990/91 and 1991/92 continued

Stock	Untreated		Burnt over (+ or - days)		Difference	
	1990/91	1991/92	1990/91	1991/92	'90/91	'91/92
50	29/10	27/11	-	-	-	-
51	12/11	2/1	-	-	-	-
52	22/10	18/12	-	-	-	-
53	15/10	28/10	-	-	-	-
54	1/10	28/10	-	-	-	-
56	24/9	13/11	-	-	-	-
58	20/8	28/10	-	-	-	-
<hr/>						
Mean of 33-35 stocks					-6.2	-9.2

Flowering dates 1990/91

Stock	Untreated			Nos /plot	Burnt over (+ or - days)			Nos /plot	**
	1st	mid	last		1st	mid	last		
	1	8/10	12/11		17/12	42	+14		
2	5/11	10/12	19/1	27	-21	-21	0	43	
3	29/10	5/11	17/12	34	-7	-7	0	43	
6	22/10	19/11	17/12	23	-7	-14	0	41	
7	17/12	19/1	15/2	33	-14	0	0	42	
9	19/11	3/12	19/1	38	-21	-7	0	43	
11	5/11	10/12	19/1	26	0	-14	-26	49	
12	19/11	17/12	15/2	53	-14	-21	-62	47	
13	19/11	24/12	19/1	35	-21	-35	-26	45	
14	29/10	12/11	10/12	39	-14	-7	0	56	
15	19/11	19/1	15/2	48	+7	0	0	54	
16	19/11	3/12	24/12	40	-14	-14	0	56	
18	10/1	5/2	11/2	11	-45	-17	-1	14	
19	26/11	10/2	1/3	56	+39	+5	0	55	
20	26/11	4/1	19/1	27	-14	-11	0	27	
22	29/10	19/11	10/12	20	-7	-14	0	31	
23	5/11	19/11	10/1	59	0	0	-24	62	
24	24/9	22/10	19/11	17	+7	0	0	48	
25	19/11	26/11	24/12	54	-	-	-	-	
26	3/12	24/12	19/1	44	0	+17	+36	54	
27	5/11	10/12	10/1	48	+14	+7	-6	45	
28	19/11	24/12	15/1	50	-7	-7	+4	50	
29	19/1	15/2	1/3	60	-47	-53	-50	69	
30	15/1	21/2	10/3	42	+4	-1	-5	44	
32	19/11	24/12	19/1	29	-	-	-	-	
33	25/2	10/3	20/3	42	0	+1	0	44	
34	16/3	25/3	2/4	12	-	-	-	-	
35	10/3	20/3	23/3	36	-9	-9	-2	56	
36	17/12	19/1	20/2	44	+25	0	-5	51	
37	26/11	1/2	15/2	39	-7	-13	0	35	
38	1/3	15/3	20/3	27	-4	-12	-9	68	
39	5/2	22/2	8/3	52	-20	-17	-7	68	
40	5/2	20/2	8/3	40	-	-	-	-	
41	26/2	15/3	20/3	51	-35	-28	-19	72	
42	5/2	25/2	15/3	31	-50	+4	-5	33	
43	19/11	4/1	25/1	40	-7	-25	-3	50	
44	26/2	15/3	23/3	39	-	-	-	-	
45	3/12	15/1	15/2	54	-	-	-	-	
46	28/2	13/3	20/3	53	-3	-7	-6	78	
47	5/11	3/12	19/1	31	-14	-21	-26	43	
48	1/2	10/2	1/3	25	-	-	-	-	
49	12/11	1/1	19/1	14	-	-	-	-	

(cont.
** = No assessment recorded

Flowering dates 1990/91 (cont.)

Stock	Untreated			Nos /plot	Burnt over (+ or - days)			Nos /plot	**
	1st	mid	last		1st	mid	last		
50	20/3	23/3	29/3	40	-	-	-	-	
51	23/3	29/3	3/4	34	-	-	-	-	
52	9/3	14/3	25/3	47	-	-	-	-	
53	11/1	15/2	20/2	32	-	-	-	-	
54	14/1	15/2	10/3	43	-	-	-	-	
56	19/1	1/3	12/3	76	-	-	-	-	
58	12/11	3/12	19/1	36	0	-7	-9	54	
Mean of 35 stocks				38.7	-9.9 days			48.9 (+26%)	

** = No assessment recorded

Flowering dates 1991/92

Stock	Untreated			Nos /plot	Burnt over (+ or - days)			Nos /plot	Ass'ment
	1st	mid	last		1st	mid	last		
1	13/11	27/11	2/1	26	0	0	0	27	1
2	11/12	2/1	14/1	26	-29	-15	0	35	2
3	13/11	11/12	14/1	50	0	-14	-12	32	3
6	13/11	11/12	2/1	12	0	-14	0	26	1
7	14/1	29/1	28/2	29	-12	0	+12	42	1
9	11/12	18/12	12/2	44	-14	0	-14	33	-
11	11/12	18/12	14/1	49	0	+15	+15	25	2
12	18/12	14/1	12/2	71	-7	-12	0	35	2
13	13/11	18/12	14/1	45	0	-7	-12	49	3
14	27/11	18/12	14/1	63	-14	-19	-12	62	3
15	14/1	29/1	28/2	85	-12	0	0	85	3
16	11/12	8/12	29/1	34	0	+15	+14	37	-
18	2/1	2/1	29/1	12	-22	0	0	2	1
19	29/1	29/1	28/2	49	-15	-15	0	15	1
20	27/11	18/12	14/1	18	+14	-7	-12	9	2
21	14/1	29/1	28/2	75	-	-	-	-	-
22	11/12	18/12	14/1	10	-28	-19	-12	12	1
23	11/12	18/12	14/1	41	0	+15	+29	50	4
24	13/11	27/11	2/1	7	0	+2	0	24	1
25	2/1	14/1	12/2	10	-	-	-	-	1
26	3/1	2/1	12/2	24	0	+12	+16	17	-
27	11/12	2/1	29/1	41	0	0	0	25	1
28	27/11	18/12	14/1	52	+14	+15	+45	50	1
29	2/1	14/1	12/2	26	+12	+15	+16	53	-
30	12/2	12/2	11/3	11	0	0	0	3	1
32	2/1	14/1	12/2	41	-	-	-	-	-
33	28/2	28/2	25/3	27	-	-	-	-	-
34	25/3	25/3	7/4	3	-14	-14	-27	6	1
35	11/3	11/3	25/3	10	0	0	0	16	1
36	14/1	29/1	12/2	42	0	+14	+16	35	-
37	29/1	29/1	28/2	44	-15	0	0	34	3
38	-	-	-	0	-	-	-	8	1
39	12/2	12/2	25/3	30	-29	0	-14	30	4
40	28/2	28/2	11/3	45	0	0	0	26	-
41	28/2	28/3	25/3	19	-16	0	-14	13	1
42	28/2	28/2	11/3	11	-	-	-	-	1
43	14/1	14/1	12/2	37	-12	-15	-16	40	-
44	28/2	28/2	11/3	4	-	-	-	-	-
45	29/1	12/2	11/3	45	-	-	-	-	-
46	28/2	28/2	25/3	38	-16	-16	-14	65	-
47	18/12	2/1	12/2	38	-35	-45	-31	50	4
48	12/2	12/2	12/2	2	-	-	-	-	1
49	27/11	11/12	2/1	5	-	-	-	-	1

Flowering dates 1991/92

Stock	Untreated			Nos /plot	Burnt over (+ or - days)			Nos /plot	Ass'ment
	1st	mid	last		1st	mid	last		
50	11/3	11/3	4/4	48	-	-	-	-	-
51	25/3	25/3	7/4	22	-	-	-	-	-
52	11/3	11/3	7/4	51	-	-	-	-	4
53	29/1	29/1	12/2	4	-	-	-	-	1
54	14/1	28/2	11/3	20	-	-	-	-	-
56	12/1	28/2	11/3	37	-	-	-	-	-
58	2/1	14/1	12/2	19	-22	-12	0	42	3
Mean of 35 stocks				32.8	-3.5 days			31.8	(-3%)

Summary - Nos in each assessment category:

1	2	3	4
20	4	6	3

Flowering dates 1992/93

Stock	Untreated			Nos /plot	Burnt over (+ or - days)			Nos /plot	Ass' ment
	1st	mid	last		1st	mid	last		
1	28/9	25/10	23/11	60	-5	-6	-15	46	4
2	18/11	1/12	23/12	36	+9	+14	0	28	2
6	25/10	18/11	9/12	47	0	-2	-8	31	3
11	17/11	1/12	15/12	53	-27	-4	-11	43	2
13	12/10	1/11	23/11	37	-5	-4	+4	43	3
14	21/10	28/10	23/11	65	-7	-3	-11	58	3
15	14/11	23/11	4/12	33	-7	0	0	35	4
16	16/11	27/11	15/12	33	-9	-4	-14	44	2
18	4/12	20/12	8/1	39	-3	+10	+6	36	1
19	15/12	7/1	22/1	22	-11	-15	0	27	2
20	8/11	27/11	9/12	31	-14	-7	0	35	1
21	7/12	15/12	30/12	52	-	-	-	-	3
22	9/12	30/12	22/1	19	0	0	-8	33	3
27	25/10	10/11	1/12	50	0	0	0	71	3
31	28/10	10/11	4/12	21	-16	+4	-3	24	1
32	27/11	15/12	30/12	38	-4	-6	-7	37	2
33	4/2	15/2	24/2	24	0	-5	-6	31	3
34	23/11	17/12	8/1	30	-3	-8	-16	36	3
35	18/2	-	24/2	5	-14	-	0	17	1
36	20/12	8/1	28/1	44	-	-	-	-	4
37	27/11	17/12	8/1	34	-23	-2	-16	51	4
38	25/1	4/2	18/2	38	-3	0	-8	28	2
39	30/12	14/1	4/2	44	-1	0	-7	62	3
40	28/1	4/2	18/2	11	0	0	-8	25	2
41	8/1	28/1	4/2	32	-17	-6	0	43	4
42	14/1	4/2	10/2	29	-22	-10	-6	26	2
43	19/11	7/12	23/12	56	-9	-6	-6	74	3
44	28/1	4/2	10/2	30	-6	-7	-6	31	3
45	15/12	8/1	28/1	46	0	-1	+7	77	3
46	22/1	4/2	10/2	65	0	0	0	61	4
50	24/2	10/3	17/3	38	-2	0	0	34	4
54	17/12	8/1	25/1	21	-	-	-	-	3
56	17/12	25/1	4/2	30	-2	0	0	58	3
57	20/12	8/1	28/1	63	-19	-3	0	74	3
58	10/11	4/12	17/12	30	+4	+5	0	48	2
59	14/1	25/1	4/2	19	-15	-3	0	33	1
60	8/1	25/1	4/2	24	-1	0	0	20	1
Mean of 33 stocks				36.2	-2.1 days			42.0 (+16%)	

Summary - Nos in each assessment category: 1 2 3 4
 6 9 15 7

Bulb weight change over 3 years 1989 - 92.

% weight lifted / weight planted.

Stock	Untreated	Burnt over	Difference (+ = increase by burning over)
1	74	136	+ 62
2	106	213	+ 107
6	107	161	+ 54
11	171	213	+ 42
12	128	241	+ 113
13	228	128	- 100
14	294	347	+ 53
15	287	316	+ 29
16	119	179	+ 60
18	151	167	+ 16
19	147	134	- 13
20	174	187	+ 13
21	250	-	-
22	182	191	+ 9
23	119	158	+ 39
24	62	145	+ 83
25	119	-	-
26	268	280	+ 12
27	292	227	- 65
28	239	215	- 24
29	119	167	+ 48
32	268	-	-
33	227	135	- 92
34	119	-	-
35	205	193	- 12
36	278	253	- 25
37	251	286	+ 35
38	145	186	+ 41
39	199	227	+ 28
40	295	-	-
41	239	228	- 11
42	240	214	- 26
43	313	412	+ 99
44	299	-	-
45	248	-	-
46	333	455	+ 122
47	205	250	+ 45
48	99	-	-
49	108	-	-

[cont

Bulb weight change over 3 years 1989 - 92 continued

% weight lifted / weight planted.

Stock	Untreated	Burnt over	Difference (+ = increase by burning over)
50	318	-	-
51	217	-	-
52	256	-	-
53	302	-	-
54	124	-	-
56	310	-	-
58	187	441	+ 254
Mean of 31 stocks	194	222	+28

(Equivalent to 14% extra weight
or 30% extra weight increase)

NB. In the table, a figure below 100% represents a weight loss.

Conclusions.

This report covers part of the on-going assessment of the tazetta seedlings raised at Rosewarne between 1969 and 1981.

The first two releases into commerce took place in 1982, primarily to establish a system for the commercialisation of the stocks. During the period 1989 to 1993 10 stocks were distributed, with a further 4 earmarked for 1994. Eleven stocks have been destroyed. These decisions have been made on the basis of the trials results described.

The systematic evaluation of the stocks under the format of this project has provided a reliable and continuing system for completing the work over the next 3-4 years.

A list of the stocks which have been released appears in the appendices (Tables 1 & 2).

Appendix Table 3 shows the distribution of the related Matador stocks. These were not a part of the tazetta project, but made use of tazetta material as parent lines, and are currently being evaluated in a similar fashion.

Appendix Table 4 shows the original parentage and coding awarded by the breeder. This was subsequently simplified to minimise typographical errors.

Glossary

Keywords:

Narcissus: Genus in the Family Amaryllidaceae.
Approx. 50 species are recognised by RHS which is the registering authority.
Classified into 12 Divisions.
Reference: The International Daffodil Checklist, RHS London 15BN 0906603528.

Tazetta: Division 8 in the above mentioned classification. There are two general sub-groups, but these do merge.

i) True tazetta
Species, cultivars and selections derived from original sources of tazetta, mainly from Mediterranean area. These are the main types grown in Scilly.

ii) Poetaz
Hybrids of the above with *N. poeticus* (contained in Division 9). The presence of "Poet blood" significantly alters the flowering season and cultural requirements, and generally confers frost hardiness.

Breeding: Traditional plant breeding consists of emasculating the seed-bearing (female) parent whilst the pollen is still unshed within the undeveloped flower, and later, pollinating with the selected pollen (male) parent, in the absence of pollinating insects. (This was the technique used in producing the progeny evaluated in this project.)

Burning over: A traditional technique practiced in the Isles of Scilly, resulting in earlier and stonger growth of tazetta narcissus.
Originally carried out by spreading and burning straw, or other combustible plant material, over the beds in June/July.
Today, propane burners are used to ignite dessicated crop debris.
Several "passes" may be made in one season. (multiple-burning)
In addition to advancing and improving the crop, the treatment is useful as a hygiene measure. The dormancy breaking effect is ascribed to the smoke which contains traces of ethylene and large amounts of carbon monoxide.

Appendices.

The following summarises the releases made to date. Some of these took place before the period covered by this project, but they are included for completeness. Also, running alongside the Tazetta programme was a similar breeding programme involving hybrids of large-flowering poetaz, derived from the cultivar Matador, and often involving lines from the tazetta programme as parents. These stocks were purchased by Island growers in 1989 but continued to be evaluated alongside the tazetta material. The distribution of these stocks is also shown below.

Table 1. Early releases. (T) = Tazetta, (M) = Matador.

<u>Release date</u>	<u>Name</u>	<u>Cross</u>	<u>Raiser</u>
1982	Innisidgen (T) Wingletang (T)	French Sol x Autumn Sol ditto	Rosewarne Rosewarne
1984	Hugh Town (M) Martinsville (M)	Matador x Soleil d'Or ditto	Tuggle (USA) Tuggle (USA)

Table 2. Recent releases - Tazettas.

1989	No 12	69-305-5	French Sol x Autumn Sol.	8 Y-R.
	No 15	69-305-10	ditto.	8 Y-O.
1992	No 3	69-299-9	Autumn Sol x Newton.	8 Y-Y.
	No 7	69-299-19	ditto.	8 Y-Y.
	No 9	69-299-22	ditto.	8 Y-Y.
	No 30	77-62-1	Avalanche x Autumn Sol.	8 W-cream.
1993	No 36	78-84-3	Gloriosus x Early White.	8 W-Y.
	No 37	78-87-2	Gloriosus x Paper White.	8 W-Y.
	No 46	78-94-11	Gloriosus x 71-513-1.	8 W-Y.
	Propagate			
	No 50	78-95-1	Grand Monarque x Gloriosus	8 W-Y.
1994 proposal				
	No 1	69-299-2	Autumn Sol x Newton.	8 Y-Y.
	No 41	78-87-18	Gloriosus x Paper White.	8 W-Y.
	(No 45	78-87-22	ditto.	8 W-Y.)
	(No 57	81-13-2	ditto.	8 W-Y.)

(Those in parentheses await confirmation.)

A total of 11 stocks were destroyed following evaluation under this project.

Table 3. Recent releases - Matador crosses.

1990	No 2	66-49-7	Matador x Soleil d'Or.
	No 5	66-49-17	ditto.
	No 6	66-49-19	ditto.
1992	No 1	66-49-2	Matador x Soliel d'Or.
	No 8	66-49-23	ditto.
	No 28	73-157-6	Matador x 69-305-5. (T 12)
1993	No 14	71-493-1	Matador x Autumn Sol.
	No 32	74-262-1	Matador x 69-310-11.
	No 35	75-420-1	Matador x 69-305-3.
	Propagate		
	No 29	73-157-7	Matador x 69-305-5. (T 12)
	No 36	75-422-3	Matador x 69-305-12.
	No 40	75-436-2	69-299-20 x Matador.

Proposal 1994.

No 21	73-154-1	Matador x Gloriosus.
No 38	75-432-1	Matador x 70-347-1.
(No 4)	66-49-15	Matador x Soleil d'Or.
(No 39)	75-436-1	69-299-20 x Matador.

(Those in parentheses await confirmation.)

Table 4 Tazetta seedling - list of codings and parents.

1	69-299-2	Autumn Sol x Newton.
2	69-299-5
3	69-299-9
4	69-299-12
5	69-299-13
6	69-299-18
7	69-299-19
8	69-299-20
9	69-299-22
10	69-305-2	French Sol x Autumn Sol.
11	69-305-3
12	69-305-5
13	69-305-8
14	69-305-9
15	69-305-10
16	69-307-10	Newton x Autumn Sol.
17	69-310-7
18	71-485-2	Autumn Sol x 8 Y-Y
19	71-486-4	Autumn Sol x 66-120-1
20	77-91-1	69-307-4 O.P.
21	82-1-1	Israeli Sol. x Autumn Sol.
22	71-485-1	Autumn Sol. x 8 Y-Y
23	76-144-3	Sdg 3 x Gloriosus
24	76-145-1	Sdg 5 x ..
25	76-147-1	Sdg 13 x ..
26	76-147-2	Sdg 13 x ..

27	76-148-1	Sdg 15 x Autumn Sol.
28	76-149-1	Sdg 15 x Gloriosus
29	76-149-2
30	77-62-1	Avalanche x Autumn Sol.
31	77-64-5	Gloriosus x Autumn Sol.
32	77-66-1	Gloriosus x Ziva
33	78-77-1	Avalanche x Gloriosus
34	78-77-2
35	78-80-1	Avalanche x 71-513-1
36	78-84-3	Gloriosus x Early White
37	78-87-2	Gloriosus x Paper White
38	78-87-10
39	78-87-11
40	78-87-13
41	78-87-18
42	78-87-19
43	78-87-20
44	78-87-21
45	78-87-22
46	78-88-1	Gloriosus x Scilly White
47	78-91-1	Gloriosus x T. cypri
48	78-94-1 1	Gloriosus x 71-513-1
49	78-94-12
50	78-95-1	Monarque x Gloriosus
51	78-95-2
52	78-95-3
53	78-110-1	T. cypri x Gloriosus
54	81-9-1	Avalanche x 78-91-1

55	81-11-1	Gloriosus x Monarque
56	81-13-1	Gloriosus x Paper White
57	81-13-2
58	81-14-1	Gloriosus x 76-144
59	81-14-2
60	81-18-1	Gloriosus x 78-79

NB. In the breeder's code the numerals indicate:

1st numeral - year of cross.

2nd numeral - number of cross.

3rd numeral - number of selection within that year and cross.

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