



THE ROYAL
HORTICULTURAL
SOCIETY

Trials Department

TRIALS REPORT 1993

POTATO *Maincrop*

The Royal Horticultural Society's Garden, Wisley, Woking, Surrey GU23 6QB

TRIALS REPORT 1993 - POTATO, MAINCROP

Previous Trials: 1931, 1936 & 1981

Objective: To assess and compare a number of submitted cultivars for growth, performance, yield and quality.

Entries: There were 26 entries, as follows:

	Cultivar Name	(Raiser)	Sender
1.	Crispin	(Cockram)	Cockram
2.	Kirsty	(Tayside Potatoes)	Webster
3.	Sante	(Agrico)	Webster
4.	Ailsa	(V T Growers)	Webster
5.	Avalanche	(Cockram)	Cockram
6.	Nadine	(Dunnett)	Webster
7.	Maris Piper	(n.d.)	N.I.A.B.
8.	Croft	(n.d.)	N.I.A.E.
9.	Fianna	(Agrico)	Webster
10.	Obelix	(Nickerson)	Nickerson
11.	Pentland Dell	(n.d.)	N.I.A.B.
12.	Famosa	(Agrico)	Webster
13.	Valer	(Dunnett)	Webster
14.	Penta	(Agrico)	Webster
15.	Charisma	(Cockram)	Cockram
16.	Kestrel	(Dunnett)	Webster
17.	Picasso	(Nickerson)	Nickerson
18.	Romano	(n.d.)	N.I.A.B.
19.	Stroma	(Dunnett)	Webster
20.	Stemster	(Dunnett)	Webster
21.	Desiree	(n.d.)	N.I.A.B.
22.	Heather	(Dunnett)	Webster
23.	Navan	(P.B.I.)	P.B.I.
24.	Stamina	(Dunnett)	Webster
25.	Cara	(n.d.)	N.I.A.B.
26.	Maxine	(Dunnett)	Webster

n.d. = not declared

Raising and

Growing Method:

The ground was hand dug, and tractor cultivated twice to prepare a deep tilth. Fertilizer was incorporated at 106g per sq m (3 oz per sq yd) on 16 April 1993. The tubers were chitted from mid February and planted on 19 April in rows 75 cm (30 in) apart, spaced 30 cm (12 in) apart in the rows. There were 4 half rows of each entry grown.

The crop was earthed up on 17 May and 15 June and irrigated from June onwards at 10 day intervals as necessary.

Sprays of fungicide against potato blight and insecticide against greenfly infestation were applied as necessary.

Records:

A record was made of yield, skin and flesh colour, shape and grade.

Judging:

The Vegetable Trials Sub-Committee inspected the crop on 21 September 1993. The criteria considered were:

Yield Skin Colour Shape/Size of Tuber

The following entries were recommended for the Award of Garden Merit (H3)

5.	Avalanche	from	Cockram
8.	Croft	from	N I A B <i>Not on National list</i>
12.	Famosa	from	Webster
17.	Picasso	from	Nickerson
19.	Stroma	from	Webster
23.	Navan	from	P B I Cam. Ltd
26.	Maxine	from	Webster

H3 = plants hardy outside in some regions or in particular situations or, which whilst grown outside in summer, would need frost-free protection in winter

Photographic records of the AGM winners are kept at Wisley.

Weather Notes: 19 April (planting) to 21 September (judging)

Total rainfall	(mm)	230.9
Lowest min temp	(°C)	- 1.3
Highest max temp	(°C)	27.2

No.	Name	Average Weight of 1 half row (9 tubers)	% small	% medium	% large	Shape	Skin colour	Flesh Colour
1.	Crispin	21.8 kg (47lb 15oz)	2%	50%	48%	SO	W	Cr
2.	Kirsty	17.3 kg (38lb 3oz)	2%	73%	25%	R	W	Cr
3.	Sante	20.7 kg (45lb 9oz)	12%	54%	34%	RO	W	Lt Y
4.	Ailsa	15.8 kg (34lb 13oz)	13%	80%	7%	RO	W	Cr
5.	Avalanche	23.9 kg (52lb 10oz)	4%	68%	28%	RO	W	Cr
6.	Nadine	21.6 kg (47lb 9oz)	19%	72%	9%	RO	W	Cr
7.	Maris Piper	20.1 kg (44lb 6oz)	5%	74%	21%	O	W	Cr
8.	Croft	22.1 kg (48lb 12oz)	6%	79%	15%	O	W	Cr
9.	Fianna	19.7 kg (43lb 7oz)	10%	63%	27%	O	W	W
10.	Obelix	18.6 kg (41lb 1oz)	5%	69%	26%	O	W	Lt Y
11.	Pentland Dell	18.9 kg (41lb 11oz)	6%	83%	11%	LO	W	Cr
12.	Famosa	16.5 kg (36lb 5oz)	9%	67%	24%	LO	W	Lt Y
13.	Valer	24.2 kg (53lb 4oz)	4%	54%	41%	R	W	Cr
14.	Penta	19.9 kg (43lb 14oz)	5%	64%	31%	RO	PC P/R	Lt Y
15.	Charisma	28.8 kg (63lb 8oz)	2%	21%	77%	RO	PC P/R	Y
16.	Kestrel	15.6 kg (34lb 5oz)	7%	80%	14%	LO	W	Cr
17.	Picasso	24.4 kg (53lb 12oz)	3%	44%	53%	LO	W	Cr
18.	Romano	16.7 kg (36lb 14oz)	7%	77%	16%	RO	P/R	Cr

No.	Name	Average Weight of 1 half row (9 tubers)	% small	% medium	% large	Shape	Skin colour	Flesh Colour
19.	Stroma	19.9 kg (43lb 12oz)	4%	89%	8%	LO	P/R	Y/Pg
20.	Stemster	24.3 kg (53lb 7oz)	3%	40%	57%	LO	P/R	Lt Y
21.	Desiree	20.0 kg (44lb 2oz)	5%	60%	36%	LO	P/R	Lt Y
22.	Heather	21.9 kg (48lb 3oz)	2%	57%	40%	LO	Pu	W
23.	Navan	21.9 kg (48lb 5oz)	4%	42%	55%	O	W	Cr
24.	Stamina	16.6 kg (36lb 10oz)	16%	63%	21%	O	W	Lt Y
25.	Cara	17.3 kg (38lb 0oz)	11%	60%	29%	RO	PC P/R	Cr
26.	Maxine	19.2 kg (42lb 6oz)	7%	91%	2%	R	P/R	Cr

Key to shape

R = round
RO = round-oval
O = oval
SO = short oval
LO = long oval
L = long

Key to colour of skin/flesh

W = white
Cr = cream
Lt Y = light yellow
Y = yellow
P/R = pink/red
Pu = purple
PC = particoloured
Pg = pigment

Names and Addresses of Senders of Seed to the Trial

J E Cockram
552 Bolton road
Aspull
Wigan
WN2 1PX

Nos. 1, 5 & 15

National Institute of Agricultural Botany
Huntingdon Road
Cambridge
CB3 0LE

Nos. 7, 8, 11, 18, 21 & 25

Nickerson Seeds Ltd
Castleton of Eassie
Glamis,
By Forfar Angus
DD8 1SJ

Nos. 10 & 17

Plant Breeding International Cambridge Ltd
Maris Lane
Trumpington
Cambridge
CB2 2LQ

No. 23

J Webster
Webster's Seed Potatoes
4 Denside, Letham Grange
Arbroath
Tayside
DD11 4QL

Nos. 2, 3, 4, 6, 9, 12, 13, 14, 16, 19, 20, 22,
24 & 26