

The following comments are in relation to varieties added to the list for 2013.

#### ***Fine podded***

**Crocket** (Clause) matured between 1 and 3 days earlier than Laguna over the 3 years and gave significantly lower yields than Laguna. Yields were similar to Venice at H2 stage. Pods were longer and narrower than Venice. Pods were straight and very dark in colour.

#### ***Medium podded***

**Bartava** (Seminis Vegetable seeds) matured 3 days earlier than Laguna. Yields were comparable to Scuba or Laguna. Pods were longer and slightly narrower than Laguna. Bartava produced more pods per plant than Laguna and gave fewer T-stalks.

#### **KEY TO BREEDER & SOURCE OF VARIETIES**

BB = Bakker Brothers, PO Box 7, 1723 ZG Noord-Schaarwoude, Holland.

Cl = Clause, PO Box 111, Market Rasen, Lincs, LN7 6XY.

DT = David Trethewey Seeds, The Seed Store, High Street, Pointon, Sleaford, Lincs.

El = Elsoms Seeds Ltd., Pinchbeck Road, Spalding, Lincs., PE11 1QG

HS = Holland-Select BV., P.O. Box 27, 1619 ZG Andijk, Holland.

Nun = Nunhems Netherlands BV, PO Box 4005, 6080 AA Haelen, Holland

PV = Pop Vriend BV., Middenweg 52, PO Box 5, 1619 ZG Andijk, Holland.

Syn = Syngenta, CPC4, Capital park, Fulbourn CB21 5XE.

SVS = Monsanto Vegetables Ltd., Cambourne Business Park, Building 2030, Cambourne, Cambs CB23 6DW.

vW = van Waveren Saaten GmbH, Rodeweg 20, D-37081, Göttingen, Federal Republic of Germany.



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*Please note that varietal performance may differ with site and seasons, and small areas of a new variety should be evaluated before planning a large programme*

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## **GREEN BEAN VARIETIES – 2013 update**

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### **INTRODUCTION**

The successful development and introduction of new varieties of green beans (Dwarf French - *Phaseolus vulgaris*), calls for close liaison between growers, processors and plant breeders and PGRO is the prime link between the three parties.

The UK area of green beans grown for processing continues to decrease due to declining sales of cut and sliced product and increasing imports of the extra-fine types. The area for fresh market is possibly still increasing and many of the new varieties included in the list are suitable.

There are now several extra-fine and flat podded-varieties on the list that can be successfully grown in the UK.

Varieties are tested in the Preliminary Trial when they are entered for National List tests in an EU member country. This trial is usually sown in mid-late May and the most promising varieties are tested for a further two years in the Main Trial.

The trials were machine harvested at two harvest stages H1 and H2. Produce from all varieties was quick-frozen and found to be acceptable.

Results from current trials are issued on Varieties Day in November, together with three year summaries in the Variety Trial Results Manual.

This advisory leaflet describes briefly the characteristics of 38 varieties. Details of other varieties are available on request.

A summary of field data is given in the following tables. Additional information is also available by request on harvestability and percentage of T-stalks.



## A Descriptive List of Green Bean Varieties - Summary of Field Data

Data is derived from at least 3 years trials, over the period 1994-2012, but not necessarily the same years. Yields are expressed as a percentage of the yield standard Laguna and are only indications of comparative yield. Small yield differences should be treated with caution

Variety [ ]No of trials	Breeder (UK source)	Harvest stage 1		Harvest stage 2		Plant Habit 1=lax 5=erect	Pod characteristics at harvest stage 1					
		Maturity to Laguna ± days	Yield % of Laguna	Maturity to Laguna ± days	Yield % of Laguna		No. on soil 1=most 5=none	External colour raw	Shape 1=v.curved 5=straight	Section 1=flat 5=round	Average length cm	Average width mm
<b>Very fine pods</b>												
Fresano [3]	Nun	-6	82	-5	89	4.3	4.2	7.9	4.0	4.9	11.0	7.5
Carana [3]	Nun	-4	79	-4	79	3.9	4.2	7.5	4.3	4.9	11.2	7.6
Crockett [3]	Cl	-3	62-	-1	70-	5.0	3.5	8.2	4.2	5.0	13.2	7.3
Calgary [3]	PV	-2	78	-2	86	5.0	4.5	5.8	3.9	4.5	11.5	7.6
<b>Fine pods</b>												
Nagano [3]	Nun	-7	68-	-7	69-	4.4	3.6	7.4	4.1	4.9	11.8	7.2
Casher [3]	Syn	-5	83	-4	84	4.0	3.7	8.1	3.8	4.7	12.8	8.3
Koala [3]	PV	-5	76-	-1	93-	5.0	5.0	8.4	4.7	5.0	12.0	7.8
Almaty [3]	PV	-4	90	-2	91	4.8	5.0	8.5	4.5	5.0	12.1	8.3
Bomont [3]	Syn	-3	72-	-1	77-	4.9	4.5	7.3	4.0	4.9	12.4	7.5
Jazz [3]	BB	-2	90	-3	104	5.0	4.7	7.2	4.9	5.0	12.7	9.4
Cerdon [3]	Syn	-2	53-	-1	58-	4.3	4.3	5.5	4.3	4.9	11.1	8.1
Venice [5]	PV	-2	73-	-1	74-	5.0	3.5	7.3	4.4	5.0	12.4	8.1
Bermuda [3]	PV	-1	106	-2	103	4.8	4.0	7.2	4.3	5.0	12.6	8.0
Canzone [3]	PV	-1	65-	-1	87	5.0	4.8	7.7	4.5	5.0	11.4	8.3
Klaron [3]	Syn	-1	80	0	90	4.7	5.0	6.0	4.4	5.0	12.1	8.3
Albany [3]	PV	-1	77-	0	80	5.0	4.8	6.5	4.5	5.0	11.4	8.4
Belcampo [3]	PV	0	76-	0	87-	4.5	4.4	8.9	4.7	5.0	11.7	7.6
Boston [3]	PV	+1	61-	0	83-	5.0	5.2	6.3	4.3	4.8	13.6	7.9
Bogey [3]	PV	+2	97	+1	96	5.0	4.1	8.3	4.6	5.0	11.9	7.6
Paulista [3]	SVS	+2	66-	+2	74-	5.0	4.5	4.6	5.0	4.6	12.1	8.1
Jackpot [3]	vW(DT)	+3	61-	+2	68-	5.0	5.0	7.0	4.7	5.0	12.8	7.8
Bravo [3]	vW(DT)	+4	75-	+3	81	5.0	4.7	6.4	4.6	4.9	13.3	8.1

Variety [ ]No of trials	Breeder (UKsource)	Harvest stage 1		Harvest stage 2		Plant Habit 1=lax 5=erect	Pod characteristics at harvest stage 1					
		Maturity to Laguna ± days	Yield % of Laguna	Maturity to Laguna ± days	Yield % of Laguna		No. on soil 1=most 5=none	External colour raw	Shape 1=v.curved 5=straight	Section 1=flat 5=round	Average length cm	Average width mm
<b>Medium pods</b>												
Baritone [3]	BB	-4	67-	-4	66-	4.8	4.4	8.9	4.0	4.8	13.9	9.7
Mobile [3]	BB	-4	74-	-4	73-	5.0	4.3	8.9	4.0	4.8	12.8	9.5
Bartava [3]	SVS	-4	100	-3	104	4.5	2.9	5.7	4.0	5.0	13.5	8.6
Ensemble [3]	BB	-3	74-	-3	72-	4.8	4.5	9.5	4.1	5.0	14.6	8.6
Topedo [3]	Syn	-2	83	-2	93	4.7	4.7	5.2	4.6	5.0	13.2	9.6
Scuba [10]	PV	-2	91	-2	90	4.7	3.9	8.0	4.4	4.9	12.7	9.5
Stanley [3]	HS(EI)	-2	88	-1	88	4.8	4.8	8.0	4.3	5.0	11.5	8.8
Basilica [3]	BB	-1	67-	-2	73-	5.0	4.8	6.8	4.8	5.0	14.2	9.3
Hilton [3]	HS(EI)	-1	100	-1	103	4.3	4.3	5.5	4.5	4.8	12.7	10.0
Orlando [2]	PV	-1	108	-1	103	4.5	5.0	7.5	4.3	5.0	12.1	9.5
Excalibur [3]	SVS	0	97	0	110	4.6	4.5	7.8	4.7	4.8	12.8	8.9
Laguna [22]	PV	0	100	0	100	4.9	4.6	7.2	4.7	4.9	12.3	9.9
<b>Large pods</b>												
Green Arrow [3]	PV	-2	95	-2	95	5.0	3.2	6.0	4.6	4.9	13.8	9.9
<b>Flat pods</b>												
Artemis [3]	PV	-3	105	-2	98	4.7	3.8	4.3	4.3	1.0	13.7	17.0
Ceres [3]	BB	-2	85	-1	81	5.0	4.7	5.3	4.4	1.0	13.8	16.7
Baroma [3]	BB	-1	83	0	83	4.5	4.8	4.6	4.2	1.0	15.6	16.0

**KEYS:** Yield: - Significantly less than Laguna @p=0.05.

External colour raw: 1 = v.pale, 5 = medium, 7 = dark, 9 = v.dark.

Type classifications:

Very fine pods

Fine pods

Medium pods

Large pods

Flat pods

6.5 - 8 mm pod width

8 - 9 mm pod width

9 - 10 mm pod width

> 10 mm pod width

> 15 mm pod width

for whole; Harvest 1 & 2 maturity judged by pod width.

for whole or cutting; Harvest 1 - SL 80-90; Harvest 2 - SL 100-110

for cutting (or slicing); Harvest 1 - SL 90; Harvest 2 - SL 110

for slicing; Harvest 1 - SL 100; Harvest 2 - SL 120.

for diamond cutting or slicing; Harvest 1 - SL 100; Harvest 2 - SL 110