



Spring Bean Varieties

Irish Recommended List 2024

Crop Policy, Evaluation & Certification Division

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IMPORTANT NOTICE

The Department of Agriculture, Food and the Marine (DAFM) has taken all due care in evaluating the performance of the listed varieties for yield, quality and the important agronomic characters over a wide range of soils and environmental conditions, for a minimum period of 3 years. DAFM cannot, however, accept responsibility for any loss or inconvenience arising from any future variation in absolute or relative varietal performance.



Introduction

This Recommended List details the spring bean varieties that are considered most suitable for growing under Irish conditions. The varieties included on the Recommended List have completed a minimum of three years in DAFM trials. These trials were located in Cork, Kilkenny, Kildare, Meath and Wexford and were grown in accordance with good farming practice. The data presented in this Recommended List is based on a three-year average of trials harvested from 2021 to 2023.

Variety Testing Procedure

New varieties are submitted annually to DAFM from Irish Agents acting on behalf of international plant breeders or directly from these breeders. These varieties enter combined National List/Recommended List trials. All varieties on the Recommended List have shown excellent performance under Irish Conditions. These varieties have been given a positive Value for Cultivation and Use (VCU) status, thus resulting in them being listed in the National and EU Common Catalogues of Agricultural Plant Varieties.

The trials comprise up to 16 varieties annually. The seeding rate is 40 seeds per square metre with a view to achieving an establishment of 25-30 plants per square metre. The varieties are assessed as to their suitability under Irish conditions for yield, protein content, disease resistance and other agronomic traits.

Growers should select the varieties listed because these varieties have been independently and robustly tested by DAFM over a minimum of 3 years under Irish conditions and have been proven to perform in these conditions.

Types of Recommendation

Varieties appearing on this list for the first time are **Provisionally Recommended (PR)** and have completed three years in combined National List/Recommended List (NL/RL) trials. The number after the PR (e.g. PR-1) indicates the number of years a variety has been provisionally recommended. The eventual status of these varieties is determined by the level of performance in ongoing NL/RL trials; fully **Recommended (R)** classification may be deemed to be merited after a further one, two, or a maximum of three years, or alternatively they may be removed from the list at any stage.

Laboratory Analysis

Trial plots are sampled at harvesting to determine dry matter and protein content. Yields are adjusted to 15% moisture content while protein content is expressed on a dry matter basis. Protein content is tested by FBA laboratories, Cappoquin, Co Waterford.



Recommended List of Spring Beans 2024

	Recommended			Provisionally Recommended
	Caprice (R)	Lynx (R)	Victus (R)	Protina (PR-1)
Treated Yield (t/ha @ 15% moisture)	99	102	99	100
% Crude Protein	102	100	100	102
Plant Height (cm)	132	132	126	133
Brackling Resistance (1 – 9, 9 = best)	7	8	5	7
Lodging Resistance (1 – 9, 9 = best)	(8)	(9)	(7)	(8)
Earliness of Maturity (1 – 9, 9 = Earliest)	(7)	(6)	(7)	(6)
Resistance to:				
Chocolate Spot (1 – 9, 9 = most resistant)	(6)	(6)	(7)	(6)
Downy Mildew (1 – 9, 9 = most resistant)	(7)	(7)	(7)	(8)
Rust (1 – 9, 9 = most resistant)	(6)	(5)	(5)	(6)
Year first recommended	2022	2019	2022	2024

- Data is based on results of fungicide treated trials with the exception of disease resistance data which uses untreated trial data.
- Disease resistance ratings are based on a scale of 1 to 9. Disease ratings with scores of 8 and over are very resistant; 7 indicates good resistance and 6 indicates moderate resistance; 5 indicates moderate susceptibility while 4 is rated susceptible; 1,2 and 3 are very susceptible.
- Figures shown in brackets () are based on limited data and should be treated with caution.
- Yield and crude protein content are expressed relative to the mean of the control varieties (100 = mean of control varieties). The control varieties used were Fanfare, Lynx and Victus in 2021 and 2022 and Caprice, Lynx and Victus in 2023.
- The mean yield and mean crude protein content of the control varieties over the period 2021 to 2023 was 7.3t/ha and 23.6% respectively.



Characteristics of Spring Bean Varieties

Caprice (R):	<p>Good yielding variety with good protein content. It has good brackling resistance and very good lodging resistance. It has moderate resistance to chocolate spot and rust and good resistance to downy mildew.</p> <p>Irl Agent: Goldcrop Ltd. Bred by P.H. Petersen, Denmark.</p>
Lynx (R):	<p>This is a high yielding variety with good protein content. It has very good brackling and excellent lodging resistance. It has moderate resistance to chocolate spot and good resistance to downy mildew. It is moderately susceptible to rust.</p> <p>Irl Agent: Seed Technology Ltd. Bred by NPZ Lembke, Germany.</p>
Victus (R):	<p>Good yielding variety with good protein content. It is moderately susceptible to brackling and good resistance to lodging. It has good chocolate spot and downy mildew resistance while moderately susceptible to rust. The breeder claims this variety is low in the anti-nutritional compounds vicine and convicine.</p> <p>Irl Agent: Seedtech Ltd. Bred by NPZ Lembke, Germany.</p>
Protina (PR-1)	<p>Good yielding variety with good protein content. It has good resistance to brackling and very good resistance to lodging. It has moderate resistance to chocolate spot and rust and is very resistant to downy mildew.</p> <p>Irl Agent: Goldcrop Ltd. Bred by P.H. Petersen, Denmark.</p>



Appendix 1: Varieties evaluated in the Spring Bean National List/Recommended List Trial 2023

Agent: GC = Goldcrop, ST = Seed Technology

	Variety	Trial Year 2023	Agent	Breeder	Breeders Reference
1	Callas	2	GC	P.H. Petersen	PHP19-227
2	Caprice	6	GC	P.H. Petersen	PHP15-6
3	Futura	2	ST	NPZ Lembke/ Germany	RLS97028
4	Genius	2	ST	NPZ Lembke/ Germany	RLS97027
5	Hammer	1	ST	NPZ Lembke/ Germany	RLS 97109
6	Iron	1	ST	NPZ Lembke/ Germany	RLS 97110
7	LG Stego	2	ST	Limagrain	LGFN19952
8	LGFN21956	1	ST	Limagrain	LGFN21956
9	Lynx	8	ST	NPZ Lembke/ Germany	RLS 9151
10	Malibu	1	GC	P.H. Petersen	PHP 20-36
11	Mystic	1	GC	P.H. Petersen	PHP 20-33
12	Notilus	1	ST	Agri Obtentions	AOFP16.7
13	Protina	3	GC	P.H. Petersen	PHP18-206
14	Shiva	1	GC	P.H. Petersen	PHP20-38
15	Torino	1	GC	P.H. Petersen	PHP20-42
16	Victus	6	ST	NPZ Lembke/ Germany	RLS 57301

Trial Year 2023: Indicates the number of years the variety was on trial in 2023.



RECOMMENDED LISTS

Cereal Varieties

Herbages Varieties: (Grasses and Clover)

Forage Maize Varieties

Winter Oilseed Rape Varieties

Recommended Lists can be obtained at the following link:

[gov.ie - Crops \(www.gov.ie\)](http://www.gov.ie)

CROPS SCHEMES AND SERVICES

Seed Certification

Seed Testing

The use of certified seed ensures a high level of varietal purity and germination.