

Winter Oilseed Rape

Irish Recommended List for 2017 Sowing

CROPS EVALUATION and 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, disease resistance and the important agronomic characters over a wide range of soils and environmental conditions, for a minimum period of 3 years. The Department cannot, however, accept responsibility for any loss or inconvenience arising from any future variation in absolute or relative varietal performance.

Winter Oilseed Rape Growing in Ireland

Winter oilseed rape (WOSR) varieties grown commercially in Ireland are classified as *Brassica napus* (Swede Rape) and all have low levels of both erucic acid and glucosinolates. These varieties are known as 'double zero varieties' and their seed is suitable for processing for both food and feed use. It is important that the crop is sown between mid August and early September to ensure good establishment before winter.

Introduction

This leaflet lists the winter oilseed rape varieties that are considered most suitable for growing under Irish conditions. The varieties included on the Recommended List have completed three years in the Department of Agriculture, Food and the Marine's trials. These trials were located in Cork, Kilkenny, Kildare and Meath and were grown in accordance with good farming practice. The yield and agronomic data presented are based on a three year average of trials harvested from 2015 to 2017. The oil, glucosinolate and seed shedding data presented are based on 2 year average of trials from 2015 to 2016.

Variety Testing Procedure

New varieties are submitted annually to the Department from Irish Agents acting on behalf of International plant breeders or directly from these breeders. These varieties enter combined National List/ Recommended List trials. Those varieties given a positive Value for Cultivation and Use (V.C.U.) status may, at the request of the breeder, be listed in the national and EU common catalogues.

The trials comprise up to 23 varieties annually (The full list of varieties trialed in 2017 are included in Appendix 1) and were grown at three Department centres and two external sites per year. In the trials, the seeding rate as 'seeds per square metre' is 85 for conventional varieties and 55 for hybrid varieties. The varieties are assessed as to their suitability under Irish conditions for seed yield, oil content and various other traits. This Recommended List only contains varieties that have shown excellent performance under Irish conditions, which are accepted as being unique and come with specific challenges for growing the crop successfully.

Therefore, growers should give preference to the varieties listed unless there is compelling evidence that other varieties are more suited to their specific conditions.

Types of Recommendation:

Varieties appearing on the list for the first time are **Provisionally Recommended (PR)**, and have completed three years in combined National list/ Recommended list (NL/RL) trials. 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 exceptionally three years, or alternatively they may be removed from the list at any stage.

Laboratory Analysis:

The Department of Agriculture, Food and the Marine determine the dry matter content of seed samples from each trial plot during harvesting. The seed yield of controls and the relative yield of each variety at harvest are adjusted to 9% moisture content. Dried samples are also tested by NIAB, UK for oil and glucosinolate contents.

Table 1: Recommended List of Winter Oilseed Rape Varieties for 2017 Sowing.

	Recommended		Provisionally Recommended		
	Anastasia	Sensation	DK Extrovert	PX113	SY Harnas
Relative Seed Yield	103	97	98	97	100
Hybrid/Conventional	Conventional	Hybrid	Hybrid	Hybrid Semi-Dwarf	Hybrid
Oil Content	99	98	101	100	98
Glucosinolate content (µmol/g seed)	16.1	17.8	18.4	15.9	17.4
Early Vigour (1-9, 9 = most vigorous)	(6)	(5)	(7)	(6)	(7)
Full Plant Height (cm)	138	120	137	115	129
Lodging resistance (1-9, 9 = best)	8	8	7	8	7
Stem Stiffness (1-9, 9 = upright)	8	8	6	8	6
Earliness of flowering (1-9, 9 = earliest)	(6)	(6)	(8)	(5)	(6)
Earliness of Maturity (1-9, 9 = earliest)	(5)	(5)	(6)	(6)	(5)
Shedding Resistance (1-9, 9 = most resistant)	(7)	(6)	(8)	(6)	(7)
Light Leaf Spot Resistance (1-9, 9 = most resistant)	(6)	(6)	(7)	(6)	(6)
Year First Recommended	2017	2014	2017	2017	2017

Notes on Table 1: Data based on results of fungicide treated trials with the exception of light leaf spot data which is based on untreated trials. Data based on trials harvested from 2015 to 2017 with the exception of Oil Content, Glucosinolate Content and Shedding Resistance which are based solely on data from trials harvested in 2015 and 2016. Figures shown in brackets () are based on limited data and should be treated with caution.

The control varieties used were Compass, Flash and Sensation in 2015, Anastasia and Sensation in 2016 and Anastasia, DK Extrovert and SY Harnas in 2017. Yield and oil content are expressed relative to the mean of the control varieties (100 = mean of control varieties). The mean yield and mean oil content of the control varieties was 4.5t/ha and 44.3% respectively when adjusted to 9% moisture content.

Characteristics of the Varieties in Table 1.

<p>Anastasia (R): (Conventional)</p>	<p>First came onto the Recommended List in 2017 with a full recommendation following its fourth year in trial. It is the highest seed yielding variety on the list. Early vigour is good. It is the tallest variety on the Recommended List but it has very good lodging resistance and very stiff stems. It is early to flower but has a moderate maturity rating. It has good light leaf spot resistance. Irl Agent: Seed Technology Ltd. Bred by Limagrain Verneuil Holding.</p>
<p>DK Extrovert (PR-1): (Hybrid)</p>	<p>First came onto the Recommended List with a Provisional Recommendation in 2017. A good seed yielding variety. Early vigour is good. It has moderate lodging resistance and moderately stiff stems and therefore requires effective growth regulation. It is very early to flower and has an early maturity rating. It has the highest light leaf spot and shedding resistance scores on the Recommended List. Irl Agent: Goldcrop Ltd. Bred by Monsanto LLC.</p>
<p>PX113 (PR-1): (Hybrid Semi-Dwarf)</p>	<p>First came onto the Recommended List with a Provisional Recommendation in 2017. It is a moderate seed yielding variety. Early vigour is good. It is the shortest variety on the Recommended List and has very good lodging resistance and stem stiffness. It is moderately early to flower but has an early maturity rating. It has good light leaf spot resistance. Irl Agent: DuPont Pioneer. Bred by DuPont Pioneer.</p>
<p>Sensation (R): (Hybrid)</p>	<p>It is a moderate seed yielding variety. Early vigour is medium. It has very good lodging resistance and very stiff stems. It is early to flower but has a moderate maturity rating. It has good light leaf spot resistance Irl Agent: Goldcrop Ltd. Bred by RAGT2n.</p>
<p>SY Harnas (PR-1): (Hybrid)</p>	<p>First came onto the Recommended List with a Provisional Recommendation in 2017. This is a good seed yielding variety. Early vigour is good. It has moderate lodging resistance and moderately stiff stems and therefore requires effective growth regulation. It is early to flower and has a moderate maturity rating. It has good light leaf spot and shedding resistance scores. Irl Agent: Goldcrop Ltd. Bred by Syngenta.</p>

Appendix 1: Varieties evaluated in the Winter Oilseed Rape National List/ Recommended List Trial in 2017 (Sown in August/September 2016)

	Variety name/ Breeder's Reference	Type	Trial Year 2017	Agent	Breeder	Breeder's Reference
1	Alabama	H	3	ST	Limagrain	LE 12/237
2	Alizze	H	2	GC	RAGT 2n	HR381536
3	Allezan	H	1	GC	RAGT 2n	HR1581536
4	Anastasia	C	4	ST	Limagrain	NSL 09/194
5	Aquila	H	2	ST	Limagrain	LE13/266
6	Architect	H	1	ST	Limagrain	LE 14/276
7	Dariot	H	2	ST	DSV	DMH294
8	DK Extrovert	H	3	GC	Monsanto LLC	CWH140
9	Elgar	C	1	ST	Elsoms	Elgar
10	ESC 14027	H	1	ST	Euralis	ESC 14027
11	ESC 15044	H	1	ST	Euralis	ESC 15044
12	Hasting	H	2	ST	KWS Momont	MH11M16
13	Idaho	H	1	ST	DSV	WRH 466
14	INV 1030	H	2	GC	Bayer	RG21306
15	INV 1035	H	1	GC	Bayer	4EW0101
16	Nikita	C	2	ST	Limagrain	LE12/248
17	PT234	H	3	DP	DuPont Pioneer	X10W459C
18	PT271	H	1	DP	DuPont Pioneer	14WT023C
19	PX113	HSD	3	DP	DuPont Pioneer	X10W693C
20	PX126	HSD	1	DP	DuPont Pioneer	13WX511C
21	Skye	C	1	GC	Elsoms	Skye
22	Sparrow	H	1	ST	DSV	WRH 461
23	SY Harnas	H	3	GC	Syngenta	RNX3140

Agent: GC = Goldcrop, ST = Seed Technology, DP = DuPont Pioneer.

Trial Year 2017 indicates the number of years the variety was on trial in 2017

RECOMMENDED LISTS

Cereal Varieties

Herbages Varieties: (Grasses and Clover)

Forage Maize Varieties

Spring Bean Varieties

CROPS SCHEMES AND SERVICES

Seed Certification

Seed Testing

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

Requests for this booklet should be sent to:

Plant Health, Crop Production & Safety Division, Department of Agriculture, Food and the Marine, Administrative Building, Backweston Campus, Stacumny Lane, Celbridge, Co Kildare.

Alternatively, Recommended Lists can be obtained from the Department of Agriculture, Fisheries and Food website;
www.agriculture.gov.ie