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Winter oilseed rape : Irish recommended list 2019

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Winter Oilseed Rape



Irish Recommended List 2019

CROP POLICY, EVALUATION AND CERTIFICATION DIVISION



**An Roinn Talmhaíochta,
Bia agus Mara**
Department of Agriculture,
Food and the Marine

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Winter Oilseed Rape Irish Recommended List for 2019 Sowing



An Roinn Talmhaíochta,
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Food and the Marine

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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, oil and agronomic data presented are based on a three year average of trials harvested from 2016 to 2018.

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 25 varieties annually (The full list of varieties trialled in 2019 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.

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 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 2019 Sowing**

	Recommended				Provisionally Recommended		
	Anastasia	DK Extrovert	PX113	SY Harnas	Alizze	Aquila	Dariot
Relative Seed Yield	102	98	95	101	100	106	103
Hybrid/Conventional	Conventional	Hybrid	Hybrid Semi-Dwarf	Hybrid	Hybrid	Hybrid	Hybrid
Oil Content	99	101	99	99	102	101	101
Glucosinolate content (µmol/g seed)	15.7	17.8	15.7	17.1	18.1	16.7	17.1
Early Vigour (1 – 9, 9 = most vigorous)	6	7	5	6	6	7	7
Full Plant Height (cm)	143	143	115	137	135	144	149
Lodging resistance (1 – 9, 9 = best)	8	6	8	6	8	8	7
Stem Stiffness (1 – 9, 9 = upright)	8	6	8	6	7	7	6
Earliness of flowering (1-9, 9 = earliest)	(6)	(8)	(4)	(6)	(8)	(7)	(6)
Earliness of Maturity (1-9, 9 = earliest)	(5)	(5)	(6)	(5)	(7)	(6)	(6)
Shedding Resistance (1-9, 9 = most resistant)	(8)	(8)	(8)	(8)	(8)	(7)	(8)
Light Leaf Spot Resistance (1-9, 9 = most resistant)	(7)	(7)	(6)	(6)	(7)	(7)	(6)
Year First Recommended	2017	2017	2017	2017	2019	2019	2019

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 2016 to 2018. Figures shown in brackets () are based on limited data and should be treated with caution.

The control varieties used were Anastasia and Sensation in 2016 and Anastasia, DK Extrovert and SY Harnas in both 2017 and 2018. 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 44.4% respectively when adjusted to 9% moisture content.

Characteristics of the Varieties in Table 1

Anastasia (R): (Conventional)	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.
DK Extrovert (R): (Hybrid)	First came onto the Recommended List with a Provisional Recommendation in 2017 and has been fully Recommended in 2018. 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.
PX113 (R): (Hybrid Semi-Dwarf)	First came onto the Recommended List with a Provisional Recommendation in 2017 and has been fully Recommended in 2018. 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: Pioneer. Bred by Pioneer.
SY Harnas (R): (Hybrid)	First came onto the Recommended List with a Provisional Recommendation in 2017 and has been fully Recommended in 2018. 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.

Characteristics of the Varieties in Table 1 — *continued*

Alizze (PR-1): (Hybrid)	First came onto the Recommended List with a Provisional Recommendation in 2019. This is a good yielding variety. Early vigour is moderate. It has very good lodging resistance and good stem stiffness. It is early to flower and has a moderate maturity rating. It has good light leaf spot and very high shedding resistance scores. Irl Agent: Goldcrop Ltd. Bred by RAGT2n.
Aquila (PR-1): (Hybrid)	First came onto the Recommended List with a Provisional Recommendation in 2019. This is the highest yielding variety on the Recommended List. Early vigour is good. It has very good lodging resistance and good stem stiffness. It is very early to flower and has a good maturity rating. It has good light leaf spot and shedding resistance scores. Irl Agent: Seedtech Ltd. Bred by Limagrain.
Dariot (PR-1):	First came onto the Recommended List with a Provisional Recommendation in 2019. This is a high yielding variety. Early vigour is good. This is the tallest variety on the Recommended List. It has good lodging resistance and moderately stiff stems. It is moderately early to flower and has a moderate maturity rating. It has moderate light leaf spot and very high shedding resistance scores. Irl Agent: Seedtech Ltd. Bred by DSV.

**Appendix 1: Varieties evaluated in the Winter Oilseed Rape
National List / Recommended List Trial in 2019
(Sown in August/September 2018)**

	Variety name / Breeder's Reference	Type	Trial Year 2019	Agent	Breeder	Breeder's Reference
1	Alizze	H	4	GC	RAGT 2n	HR381536
2	Ambassador	H	1	GC	Limagrain	LE 16/319
3	Anastasia	C	6	ST	Limagrain	NSL 09/194
4	Aquila	H	4	ST	Limagrain	LE 13/266
5	Artemis	H	1	GC	Limagrain	LE 16/316
6	Aurelia	H	1	ST	Limagrain	LE 16/321
7	Dariot	H	4	ST	DSV	DMH294
8	DK Expansion	H	2	GC	Monsanto Technology LLC	DMH293
9	DK Impresario CL	H	1	Mon	Monsanto Technology LLC	DMH218
10	ES Capello	H	1	ST	Euralis	ESC16056
11	ES Momento	H	3	ST	Euralis	ESC 14027
12	Hophelia	H	1	ST	Momont	15AY085
13	HRG1499	H	1	GC	RAGT 2n	HRG1499
14	MH 15HT 227	H	2	ST	Momont	MH 15HT 227
15	NPZ17161W11	H	1	ST	NPZ	NPZ 17161W11
16	Phoenix CL	H	1	ST	DSV	WRH 537
17	PT256	H	2	P	Pioneer	X12W554C
18	PT275	H	1	P	Pioneer	14WT509C
19	PT279 CL	H	1	P	Pioneer	X12W7351
20	PX113	HSD	5	P	Pioneer	X10W693C
21	Skye	C	3	GC	Elsoms	Skye
22	SY Harnas	H	5	GC	Syngenta	RNX3140
23	SY Iowa	H	2	Syn	Syngenta	RNX3526
24	WRH 527	H	1	ST	DSV	WRH 527
25	Zeland	H	1	GC	RAGT2n	LSF 14038W11

Agent: GC = Goldcrop, ST = Seed Technology, P = Pioneer.

Trial Year 2019 indicates the number of years the variety was on trial in 2019

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:

Crop Policy, Evaluation and Certification Division
Department of Agriculture, Food and the Marine
Administrative Building, Backweston Campus
Stacumny Lane, Celbridge, Co Kildare, W23 X3PH.

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

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