# 2020 Autumn Drilling Plan

A quick reference guide to optimum drilling dates for all your crops

## Key Dates

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter Oilseed Rape</td>
<td>Anastasia</td>
<td>Aquila</td>
<td>Dariot</td>
<td><em>KWS Bono</em></td>
<td><strong>KWS Joyau (BYDV Tolerant) &amp; KWS Kosmos</strong></td>
<td>LG Casting</td>
<td>Belfry &amp; Bazooka</td>
</tr>
<tr>
<td>HYBRID RYE</td>
<td>200 seeds/m²</td>
<td>250 seeds/m²</td>
<td>450 kg pack = 6 ha</td>
<td>300 seeds/m²</td>
<td>350 seeds/m²</td>
<td>500 kg pack = 3 ha</td>
<td>200 seeds/m²</td>
</tr>
<tr>
<td>6 ROW WINTER BARLEY</td>
<td>70-100 seeds/m²</td>
<td>50-70 seeds/m²</td>
<td>50-70 seeds/m²</td>
<td>450 kg pack = 3 ha</td>
<td>350 seeds/m²</td>
<td>500 kg pack = 2.75 ha</td>
<td></td>
</tr>
<tr>
<td>2 ROW WINTER BARLEY</td>
<td>200 seeds/m²</td>
<td>250 seeds/m²</td>
<td>450 kg pack = 3 ha</td>
<td>300 seeds/m²</td>
<td>350 seeds/m²</td>
<td>500 kg pack = 3 ha</td>
<td>200 seeds/m²</td>
</tr>
<tr>
<td>HYBRID WINTER BARLEY</td>
<td>350 seeds/m²</td>
<td>400 seeds/m²</td>
<td>500 kg pack = 2.7 ha</td>
<td>450 kg pack = 3 ha</td>
<td>500 kg pack = 2.75 ha</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WINTER WHEAT</td>
<td>350 seeds/m²</td>
<td>400 seeds/m²</td>
<td>500 kg pack = 2.7 ha</td>
<td>450 kg pack = 3 ha</td>
<td>500 kg pack = 2.5 ha</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WINTER OATS</td>
<td>400 seeds/m²</td>
<td>450 seeds/m²</td>
<td>500 kg pack = 3 ha</td>
<td>500 kg pack = 3 ha</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Ensure end use for hybrid rye before drilling
** KWS Joyau - consult agronomist on BYDV risk management if drilling early
Drilling dates and seeding rates are advisory only - consult your IASIS registered agronomist for specific drilling advice for your situation

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E: enquiry@seedtech.ie
www.seedtech.ie
2020 AUTUMN DRILLING PORTFOLIO
AT A GLANCE

WINTER OILSEED RAPE

ANASTASIA
Conventional winter oilseed rape
The best for stem stiffness and disease resistance

AQUILA
Hybrid winter oilseed rape
Highest yielding on DAFM list 2020

DARIOT
Hybrid winter oilseed rape
Quick to grow in autumn and roots deeply

PLURAX CL
Clearfield winter oilseed rape
The best Clearfield variety for stem stiffness and yield

WINTER HYBRID RYE

KWS BONO
Proven to grow in Ireland on farm and in trials
Suitable for grain or wholecrop

WINTER BARLEY

BELFRY – hybrid 6-row
Highest yield in DAFM lists 2018-2020
Excellent straw strength, grain quality and disease resistance

BAZOOKA – hybrid 6-row
2nd in yield only to BELFRY
Suitable for lighter/older tillage ground

LG CASTING – 2-row
Highest yielding 2-row on DAFM list 2020
Good to stand with big grain

KWS JOYAU – BYDV tolerant 6-row
Tolerates BYDV infection
Exceptional yield in DAFM 2019 trials
Early to harvest

WINTER WHEAT

GRAHAM
Highest yielding wheat on DAFM list 2020
Reliable disease, good to stand and good grain

WINTER OATS

HUSKY
The highest yielding oat in DAFM winter trials
Very reliable performance as a winter oat

SEED AVAILABILITY AND PACK SIZE

WINTER BARLEY

<table>
<thead>
<tr>
<th>Variety</th>
<th>Availability</th>
<th>Pack Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELFRY</td>
<td>22%</td>
<td>5 HA</td>
</tr>
<tr>
<td>BAZOOKA</td>
<td>3%</td>
<td>5 HA</td>
</tr>
<tr>
<td>LG CASTING</td>
<td>14%</td>
<td>500KG</td>
</tr>
<tr>
<td>KWS KOSMOS</td>
<td>2%</td>
<td>500KG</td>
</tr>
<tr>
<td>KWS JOYAU</td>
<td>4%</td>
<td>500KG</td>
</tr>
</tbody>
</table>

WINTER WHEAT

<table>
<thead>
<tr>
<th>Variety</th>
<th>Availability</th>
<th>Pack Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRAHAM</td>
<td>48%</td>
<td>500KG</td>
</tr>
<tr>
<td>COSTELLO</td>
<td>26%</td>
<td>500KG</td>
</tr>
<tr>
<td>JB DIEGO</td>
<td>3%</td>
<td>500KG</td>
</tr>
<tr>
<td>LG ASTRONOMER</td>
<td>&lt;1%</td>
<td>500KG</td>
</tr>
<tr>
<td>SY INSITOR</td>
<td>&lt;1%</td>
<td>500KG</td>
</tr>
</tbody>
</table>

WINTER OATS

<table>
<thead>
<tr>
<th>Variety</th>
<th>Availability</th>
<th>Pack Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSKY</td>
<td>61%</td>
<td>500KG</td>
</tr>
</tbody>
</table>

DRESSINGS

<table>
<thead>
<tr>
<th>Availability</th>
<th>Seed Dressing</th>
<th>Crop</th>
<th>Single Purpose Dressing (controls main seedling diseases)</th>
<th>Enhanced seedling vigour, rooting and establishment</th>
<th>Take-all management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard on Seedtech Cereals</td>
<td>Redigo Pro</td>
<td>All cereals</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>By order</td>
<td>Latitude</td>
<td>Wheat/Barley</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>By order</td>
<td>Vibrance Star</td>
<td>Barley</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>By order</td>
<td>Vibrance Duo</td>
<td>Wheat/Oats</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>By order</td>
<td>Kinto Plus</td>
<td>All cereals</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>By order</td>
<td>Mn dressing</td>
<td>All cereals</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
</tbody>
</table>
The most profitable and reliable crop rotation on Irish farms 2016-2018 (as analysed by Teagasc) is one that includes a proportion of winter cereals. This is very valuable information for growers and their agronomists deciding what to drill in 2020/2021. These profits are based on high winter cereal yields and you need a good reliable break crop to set up your farm to drill winter cereals at the best time and get the most from your investment.

Winter oilseed rape is often not drilled as its margin looks low compared to a good wheat or barley crop. On the face of it, this appears correct but how many 4.5 tonne/ac crops of wheat follow wheat or barley? The true benefit of rape needs to be valued correctly and teased out as this table below attempts but we advise each grower to adjust for their own situation.

### WHY GROW WINTER OILSEED RAPE IN 2020?

Winter oilseed rape is often not drilled as its margin looks low compared to a good wheat or barley crop. On the face of it, this appears correct but how many 4.5 tonne/ac crops of wheat follow wheat or barley? The true benefit of rape needs to be valued correctly and teased out as this table below attempts but we advise each grower to adjust for their own situation.

<table>
<thead>
<tr>
<th></th>
<th>Winter Oilseed Rape</th>
<th>Winter Wheat</th>
<th>Winter Barley</th>
<th>Winter Oats</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price/tonne</td>
<td>€350</td>
<td>€150</td>
<td>€140</td>
<td>€140</td>
</tr>
<tr>
<td>Yield/acre</td>
<td>1.7</td>
<td>4.5</td>
<td>4.0</td>
<td>3.6</td>
</tr>
<tr>
<td>Margin €/acre (Teagasc margins 2020)</td>
<td>120</td>
<td>240</td>
<td>200</td>
<td>170</td>
</tr>
<tr>
<td>Extra yield in following cereal (value of this benefit)</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes €80/ac</td>
</tr>
<tr>
<td>Fully utilize organic manures (value of this benefit)</td>
<td>YES €40/ac</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Use alternative herbicides to cereals (value of this benefit)</td>
<td>YES €20/ac</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Drilling in August</td>
<td>YES</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Harvest between winter barley and wheat</td>
<td>YES</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### SEEDTECH WINTER OILSEED RAPE PORTFOLIO 2020

ANASTASIA, AQUILA and DARIOT are excellent and reliable varieties of winter oilseed rape for 2020 drilling. These are fully recommended by the Irish Department of Agriculture trials and have performed very well on farm.

A new technology that many winter cereal growers might be interested in is Clearfield oilseed rape. These are varieties of oilseed rape that you can apply a special herbicide to called Cleranda. This herbicide will control charlock, runch and volunteer rape from previous crops. PLURAX CL and PHOENIX CL are Clearfield winter oilseed rape varieties that are very suited to growing in Ireland as they have excellent stem stiffness and harvest characteristics.
KEY POINTS

- Very suitable for early drilling
- Excellent disease resistance, especially Light Leaf Spot
- Excellent stem stiffness and harvest security

VARIETY PROFILE / YIELD

- **DAFM REC LIST 2020**
  - “Well proven in DAFM trials under Irish conditions”

  ![Graph showing relative yield comparison between different varieties.](image)

- **SOURCE: DAFM REC LIST 2020**

VARIETY PROFILE / AGRONOMICS

<table>
<thead>
<tr>
<th>Variety</th>
<th>Lodging Resistance</th>
<th>Stem Stiffness</th>
<th>Shedding Resistance</th>
<th>Light Leaf Spot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anastasia</td>
<td>8</td>
<td>8</td>
<td>(7)</td>
<td>(7)</td>
</tr>
<tr>
<td>Alizze</td>
<td>8</td>
<td>7</td>
<td>(8)</td>
<td>(7)</td>
</tr>
<tr>
<td>PX113</td>
<td>8</td>
<td>8</td>
<td>(7)</td>
<td>(5)</td>
</tr>
<tr>
<td>SY Harness</td>
<td>7</td>
<td>6</td>
<td>(7)</td>
<td>(6)</td>
</tr>
</tbody>
</table>

- **SOURCE: DAFM REC LIST 2020**

DRILL PLAN

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<tr>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter Oilseed Rape</td>
<td><strong>Anastasia</strong></td>
<td>70-100 seeds/m² Pack = 2.69ha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
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- **SOURCE:**

- **Seed Technology Ltd.**
  Ballymountain, Ferrybank, Waterford. X91 V6YR. Ireland
  T: +353 51 832814
  E: enquiry@seedtech.ie
  www.seedtech.ie
AQUILA
HYBRID

KEY POINTS

- Wide drilling window up to mid-September in good conditions
- Rapid autumn growth and hybrid vigour
- Well proven in DAFM trials under Irish conditions

VARIETY PROFILE / AGRONOMICS

<table>
<thead>
<tr>
<th></th>
<th>LODGING RESISTANCE</th>
<th>STEM STIFFNESS</th>
<th>SHEDDING RESISTANCE</th>
<th>LIGHT LEAF SPOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQUILA</td>
<td>7</td>
<td>7</td>
<td>(7)</td>
<td>(6)</td>
</tr>
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SOURCE: DAFM REC LIST 2020

GETTING THE MOST FROM AQUILA

- Wide drilling window but AQUILA can be drilled up to mid September in good conditions
- Drill 50 seeds/m2 (70 seeds/m2 in September)
- Hybrid vigor helps plant establish rapidly and recover from autumn losses/grazing
- Excellent Light Leaf Spot resistance helps prevent yield robbing early spring infection
- Even canopy in spring helps canopy management decisions

VARIETY PROFILE / YIELD

DAFM REC LIST 2020

```
110
108
106
104
102
100
98
96
94
92
90
```

```
AQUILA
ALIZZE
SY HARNESS
PX113
```

```
“Excellent stem stiffness and harvest security”
```

SOURCE: DAFM REC LIST 2020

DRILL PLAN

<table>
<thead>
<tr>
<th>KEY DATES</th>
<th>15TH AUG</th>
<th>1ST SEPT</th>
<th>15TH SEPT</th>
<th>1ST OCT</th>
<th>15TH OCT</th>
<th>1ST NOV</th>
<th>15TH NOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>WINTER OILSEED RAPE</td>
<td>AQUILA</td>
<td>50-70 seeds/m2</td>
<td>Pack = 3ha</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

AQUILA
HIGHEST YIELDING RAPE ON DAFM LIST 2020

7
8
8
7
7
8
6
(7)
(8)
(7)
(7)
(5)
(6)

131x294
LODGING
RESISTANCE
STEM
STIFFNESS
SHEDDING
RESISTANCE
LIGHT LEAF
SPOT

110
108
106
104
102
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90

AQUILA ALIZZE SY HARNESS PX113

HIGHEST YIELDING RAPE ON DAFM LIST 2020

HYBRID

GETTING THE MOST FROM AQUILA

- Wide drilling window but AQUILA can be drilled up to mid September in good conditions
- Drill 50 seeds/m2 (70 seeds/m2 in September)
- Hybrid vigor helps plant establish rapidly and recover from autumn losses/grazing
- Excellent Light Leaf Spot resistance helps prevent yield robbing early spring infection
- Even canopy in spring helps canopy management decisions

VARIETY PROFILE / YIELD

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AQUILA
HIGHEST YIELDING RAPE ON DAFM LIST 2020

7
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(7)
(8)
(7)
(7)
(5)
(6)

131x294
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AQUILA ALIZZE SY HARNESS PX113

HIGHEST YIELDING RAPE ON DAFM LIST 2020

HYBRID

GETTING THE MOST FROM AQUILA

- Wide drilling window but AQUILA can be drilled up to mid September in good conditions
- Drill 50 seeds/m2 (70 seeds/m2 in September)
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VARIETY PROFILE / YIELD

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AQUILA
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AQUILA
HIGHEST YIELDING RAPE ON DAFM LIST 2020

7
8
8
7
7
8
6
(7)
(8)
(7)
(7)
(5)
(6)

131x294
LODGING
RESISTANCE
STEM
STIFFNESS
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RESISTANCE
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SPOT

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AQUILA ALIZZE SY HARNESS PX113

HIGHEST YIELDING RAPE ON DAFM LIST 2020

HYBRID

GETTING THE MOST FROM AQUILA

- Wide drilling window but AQUILA can be drilled up to mid September in good conditions
- Drill 50 seeds/m2 (70 seeds/m2 in September)
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VARIETY PROFILE / YIELD

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<tr>
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<td>50-70 seeds/m2</td>
<td>Pack = 3ha</td>
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</tbody>
</table>
**KEY POINTS**

- Wide drilling window up to mid-September in good conditions
- Rapid autumn growth and hybrid vigour
- Excellent stem stiffness and harvest security
- Well proven in DAFM trials under Irish conditions

**VARIETY PROFILE / YIELD**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Lodging Resistance</th>
<th>Stem Stiffness</th>
<th>Shedding Resistance</th>
<th>Light Leaf Spot</th>
</tr>
</thead>
<tbody>
<tr>
<td>DARIOT</td>
<td>7</td>
<td>7</td>
<td>(8)</td>
<td>(6)</td>
</tr>
<tr>
<td>Alizze</td>
<td>8</td>
<td>7</td>
<td>(8)</td>
<td>(7)</td>
</tr>
<tr>
<td>PX113</td>
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<td>(7)</td>
<td>(5)</td>
</tr>
<tr>
<td>SY Harness</td>
<td>7</td>
<td>6</td>
<td>(7)</td>
<td>(6)</td>
</tr>
</tbody>
</table>

**GETTING THE MOST FROM DARIOT**

- Wide drilling window but DARIOT can be drilled up to mid September in good conditions
- Drill 50 seeds/m² (70 seeds/m² in September)
- Hybrid vigor helps plant establish rapidly and recover from autumn losses/grazing
- Very deep rooting rape so does well on lighter soils

**DRILL PLAN**

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter Oilseed Rape</td>
<td>DARIOT 50-70 seeds/m² Pack = 3ha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PLURAX CL | CLEARFIELD

**VARIETY PROFILE / YIELD**

<table>
<thead>
<tr>
<th>NIAB CLEARFIELD TRIALS 2018</th>
<th>&quot;Allows you to grow WOSR where you previously couldn't&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>YIELD (T/ha)</td>
<td></td>
</tr>
<tr>
<td>4.8</td>
<td></td>
</tr>
<tr>
<td>4.75</td>
<td></td>
</tr>
<tr>
<td>4.7</td>
<td></td>
</tr>
<tr>
<td>4.65</td>
<td></td>
</tr>
<tr>
<td>4.6</td>
<td></td>
</tr>
<tr>
<td>4.55</td>
<td></td>
</tr>
<tr>
<td>4.5</td>
<td></td>
</tr>
<tr>
<td>4.45</td>
<td></td>
</tr>
</tbody>
</table>

**NIAB CLEARFIELD TRIALS 2018**

**SOURCE: NIAB CLEARFIELD TRIAL 2018**

**CLEARFIELD SYSTEM**

These are varieties of oilseed rape, specially bred to tolerate a herbicide (imazamox) that will control charlock, runch and volunteer winter/spring rape growing in the rapeseed.

This allows growers to grow a profitable crop of winter oilseed rape in fields that would not be possible to do so.

Clearfield varieties have a slight yield lag (5-10%) compared to the top yielding winter oilseed rapes but are closing the gap each season.

In terms of agronomics, PLURAX CL is excellent to stand and contains pod shatter genes. It also has very good Light Leaf Spot resistance making it a safe choice to grow in Ireland.

**GETTING THE MOST FROM PLURAX CL**

- Drill 50 seeds/m² (70 seeds/m² in September)
- Very rapid autumn growth
- Autumn PGR not required, benefits from spring PGR/ canopy management
- Apply Cleranda herbicide according to manufacturers instructions

**SOURCE:**

NIAB CLEARFIELD TRIAL 2018

**DRILL PLAN**

<table>
<thead>
<tr>
<th>KEY DATES</th>
<th>15TH AUG</th>
<th>1ST SEPT</th>
<th>15TH SEPT</th>
<th>1ST OCT</th>
<th>15TH OCT</th>
<th>1ST NOV</th>
<th>15TH NOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>WINTER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OILSEED</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAPE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLURAX CL</td>
<td>50-70 seeds/m²</td>
<td>Pack = 3 ha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
KEY POINTS

- Our most consistent barley for: yield, grain, straw & disease
- Excellent specific weight and bright, even grain
- Very low disease or lodging risk, and suitable for all rotational slots
- Proven to suppress sterile brome

DAFM WINTER BARLEY REC LIST 2020

```
YIELD TONNES/ACRE

3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3
BELFRY PIXEL VALERIE KWS INFINITY KWS CASSIA
```

“The only winter barley to beat control yields in 19 out of 20 DAFM trials (2017-2019)”

GETTING THE MOST FROM BELFRY

- Drill 200 seeds/m² (100 kg/ha)
- Apply fertilizer early in spring (gs 25)
- Apply plant growth regulator early in spring (gs30)

VARIETY PROFILE / AGRONOMICS

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>RHYNCHO</th>
<th>NET BLOTCH</th>
<th>MILDEW</th>
<th>LODGING RESISTANCE</th>
<th>KPH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELFRY</td>
<td>(8)</td>
<td>7</td>
<td>6</td>
<td>(7)</td>
<td>68.5</td>
</tr>
<tr>
<td>Pixel</td>
<td>(7)</td>
<td>6</td>
<td>7</td>
<td>(7)</td>
<td>67.2</td>
</tr>
<tr>
<td>Valerie</td>
<td>(8)</td>
<td>(7)</td>
<td>(7)</td>
<td>(7)</td>
<td>69.7</td>
</tr>
<tr>
<td>KWS Infinity</td>
<td>7</td>
<td>7</td>
<td>5</td>
<td>7</td>
<td>67.7</td>
</tr>
<tr>
<td>KWS Cassia</td>
<td>4</td>
<td>7</td>
<td>5</td>
<td>7</td>
<td>69.9</td>
</tr>
</tbody>
</table>

DRILL PLAN

<table>
<thead>
<tr>
<th>KEY DATES</th>
<th>15TH AUG</th>
<th>1ST SEPT</th>
<th>15TH SEPT</th>
<th>1ST OCT</th>
<th>15TH OCT</th>
<th>1ST NOV</th>
<th>15TH NOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYBRID WINTER BARLEY</td>
<td>200 seeds/m²</td>
<td>500kg pack = 5ha</td>
<td>220 seeds/m²</td>
<td>500kg pack = 4.5ha</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
BAZOOKA

HYBRID BARLEY

IT WILL IMPRESS YOUR NEIGHBOUR

KEY POINTS

- Exceptional yields especially in older tillage fields
- Proven to suppress sterile brome in trials and on farm
- High straw yields
- Low disease risk

VARIETY PROFILE / AGRONOMICS

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>RHYNCHO</th>
<th>NET BLOTCH</th>
<th>MILDEW</th>
<th>LODGING RESISTANCE</th>
<th>KPH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAZOOKA</td>
<td>(8)</td>
<td>7</td>
<td>6</td>
<td>(7)</td>
<td>68.5</td>
</tr>
<tr>
<td>Pixel</td>
<td>(7)</td>
<td>6</td>
<td>7</td>
<td>(7)</td>
<td>67.2</td>
</tr>
<tr>
<td>Valerie</td>
<td>(8)</td>
<td>(7)</td>
<td>(7)</td>
<td>(7)</td>
<td>69.7</td>
</tr>
<tr>
<td>KWS Infinity</td>
<td>7</td>
<td>7</td>
<td>5</td>
<td>7</td>
<td>67.7</td>
</tr>
<tr>
<td>KWS Cassia</td>
<td>4</td>
<td>7</td>
<td>5</td>
<td>7</td>
<td>69.9</td>
</tr>
</tbody>
</table>

GETTING THE MOST FROM BAZOOKA

- Drill 200 seeds/m² (100 kg/ha)
- Drill 250 seeds/m² (125 kg/ha) for maximum brome suppression e.g. headlands etc
- Apply fertilizer early in spring (gs 25)
- Apply plant growth regulator early in spring (gs 30)

DAFM WINTER BARLEY REC LIST 2020

YIELD TONNES/acre

<table>
<thead>
<tr>
<th>BARLEY</th>
<th>3.3</th>
<th>3.4</th>
<th>3.5</th>
<th>3.6</th>
<th>3.7</th>
<th>3.8</th>
<th>3.9</th>
<th>4.0</th>
<th>4.1</th>
<th>4.2</th>
<th>4.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAZOOKA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>“Very suitable hybrid for lighter soils”</td>
</tr>
</tbody>
</table>

VARIETY

BAZOOKA

IT WILL IMPRESS YOUR NEIGHBOUR

HYBRID BARLEY

WINTER BARLEY

BAZOOKA

“Very suitable hybrid for lighter soils”

YIELD TONNES/acre

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>15TH AUG</th>
<th>1ST SEPT</th>
<th>15TH SEPT</th>
<th>1ST OCT</th>
<th>15TH OCT</th>
<th>1ST NOV</th>
<th>15TH NOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYBRID WINTER BARLEY</td>
<td>BAZOOKA</td>
<td>200 seeds/m²</td>
<td>500kg pack = 8ha</td>
<td>220 seeds/m²</td>
<td>500kg pack = 4.5ha</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SEEDTECH
AN ARVUM GROUP COMPANY

Seed Technology Ltd.
Ballymountain, Ferrybank,
Waterford. X91 V6YR. Ireland
T: +353 51 832814
E: enquiry@seedtech.ie
www.seedtech.ie
WINTER BARLEY

LG CASTING
2 ROW CONVENTIONAL

THE 2-ROW BARLEY TO GROW IN 2020

KEY POINTS

- Highest yielding 2-row on DAFM Rec List 2020 and consistent across years
- Good over-winter ability
- Big, bold grain with good KPH
- Excellent disease resistance and good straw strength

VARIETY PROFILE / YIELD (2-ROW WINTER BARLEY)

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>RHYNCHO</th>
<th>NET BLOTCH</th>
<th>MILDEW</th>
<th>LODGING RESISTANCE</th>
<th>KPH</th>
</tr>
</thead>
<tbody>
<tr>
<td>LG CASTING</td>
<td>(7)</td>
<td>(7)</td>
<td>(8)</td>
<td>(7)</td>
<td>68.4</td>
</tr>
<tr>
<td>Valerie</td>
<td>(8)</td>
<td>(7)</td>
<td>(7)</td>
<td>(7)</td>
<td>69.7</td>
</tr>
<tr>
<td>KWS Infinity</td>
<td>7</td>
<td>7</td>
<td>5</td>
<td>7</td>
<td>67.7</td>
</tr>
<tr>
<td>KWS Cassia</td>
<td>4</td>
<td>7</td>
<td>5</td>
<td>7</td>
<td>69.9</td>
</tr>
</tbody>
</table>

SOURCE: DAFM TRIALS & *SEEDTECH TRIALS

DRILL PLAN

<table>
<thead>
<tr>
<th>KEY DATES</th>
<th>15TH AUG</th>
<th>1ST SEPT</th>
<th>15TH SEPT</th>
<th>1ST OCT</th>
<th>15TH OCT</th>
<th>1ST NOV</th>
<th>15TH NOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-ROW WINTER BARLEY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LG CASTING</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

300 seeds/m2 350 seeds/m2 500kg pack = 3ha 500kg pack = 2.75ha

Source: DAFM Trials 2017-2019
**KEY POINTS**

**KWS JOYAU** is a new 6-row conventional winter barley that has BYDV tolerance genes

- Tolerates BYDV infection
- Exceptional yield in DAFM 2019 trials
- Early to mature so will help spread the harvest

---

**GETTING THE MOST FROM KWS JOYAU**

- Yields normally even if infected with BYDV (can display symptoms)*
- Does not reduce aphid numbers – may require aphid sprays if numbers are very high/feeding
- BYDV tolerance lasts to harvest – useful in mild winter/limited spray days/resistant aphids
- Early to grow in spring and early to mature so helps spread the harvest

---

**VARIETY PROFILE / YIELD AND AGRONOMICS**

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>YIELD NL TRIALS 2019</th>
<th>KPH NL TRIALS 2019</th>
<th>LODGING RESISTANCE</th>
<th>MATURITY</th>
<th>RHYNCHO</th>
<th>MILDEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>KWS JOYAU</td>
<td>121</td>
<td>68.2</td>
<td>(6)*</td>
<td>(8)*</td>
<td>(7)*</td>
<td>(5)*</td>
</tr>
<tr>
<td>KWS Cassia (c)</td>
<td>97</td>
<td>69.4</td>
<td>7</td>
<td>6</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Quadra (c)</td>
<td>105</td>
<td>66.1</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>

(C) - CONTROLS  
**SOURCE:** DAFM & *SEEDTECH TRIALS 2018/2019

---

**DRILL PLAN**

<table>
<thead>
<tr>
<th>KEY DATES</th>
<th>15TH AUG</th>
<th>1ST SEPT</th>
<th>15TH SEPT</th>
<th>1ST OCT</th>
<th>15TH OCT</th>
<th>1ST NOV</th>
<th>15TH NOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-ROW WINTER BARLEY</td>
<td>KWS JOYAU</td>
<td>300 seeds/m²</td>
<td>500kg pack = 3ha</td>
<td>350 seeds/m²</td>
<td>500kg pack = 2.75ha</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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T: +353 51 832814  
E: enquiry@seedtech.ie  
www.seedtech.ie
Key Points

- The best mildew resistance on the DAFM list
- The biggest grain amongst the 6-rows
- Very low screenings

Variety Profile / Yield

<table>
<thead>
<tr>
<th>Variety</th>
<th>Rhyncho</th>
<th>Net Blotch</th>
<th>Mildeew</th>
<th>Lodging Resistance</th>
<th>KPH</th>
<th>TGW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kosmos</td>
<td>7</td>
<td>7</td>
<td>8</td>
<td>6</td>
<td>66.7</td>
<td>49.3</td>
</tr>
<tr>
<td>Pixel</td>
<td>(7)</td>
<td>6</td>
<td>7</td>
<td>(7)</td>
<td>67.2</td>
<td>46.5</td>
</tr>
<tr>
<td>KWS Infinity</td>
<td>7</td>
<td>7</td>
<td>5</td>
<td>7</td>
<td>67.7</td>
<td>54.0</td>
</tr>
<tr>
<td>KWS Cassia</td>
<td>4</td>
<td>7</td>
<td>5</td>
<td>7</td>
<td>69.9</td>
<td>52.9</td>
</tr>
</tbody>
</table>

Drill Plan

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6-Row Winter Barley</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
KEY POINTS

- Suitable for early drilling
- Slow, steady spring growth but fastest to ripen
- Bright, clean head delivering well filled grains
- Stiff to stand

VARIETY PROFILE / YIELD AND AGRONOMICS

<table>
<thead>
<tr>
<th>LODGING RESISTANCE</th>
<th>EARLY TO RIPEN</th>
<th>SEPTORIA</th>
<th>Y. RUST</th>
<th>KPH</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRAHAM</td>
<td>(7)</td>
<td>(7)</td>
<td>(6)</td>
<td>(7)</td>
</tr>
<tr>
<td>Bennington</td>
<td>7</td>
<td>6</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Costello</td>
<td>8</td>
<td>6</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>JB Diego</td>
<td>6</td>
<td>6</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

SOURCE: DAFM REC LIST 2020

GETTING THE MOST FROM GRAHAM

- Suitable for early drilling as slow autumn and early spring growth
- Drill 300 seeds/m2 up to mid October to maximise tiller capacity
- Grows rapidly after gs 30 to help yield forming leaves move away from septoria
- Good disease scores help keep to planned fungicide budgets
- Early to harvest so helps spread workload

VARIETY PROFILE / YIELD

Relative Yield:
- GRAHAM: 108
- BENNINGTON: 106
- JB DIEGO: 104
- COSTELLO: 102
- Source: DAFM REC LIST 2020

“Reliable disease resistance for septoria, rust and mildew”

DRILL PLAN

<table>
<thead>
<tr>
<th>KEY DATES</th>
<th>15TH AUG</th>
<th>1ST SEPT</th>
<th>15TH SEPT</th>
<th>1ST OCT</th>
<th>15TH OCT</th>
<th>1ST NOV</th>
<th>15TH NOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRAHAM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

350 seeds/m2 500kg pack = 2.7ha 400 seeds/m2 500kg pack = 2.5ha
HUSKY | THE ONLY OAT TO DRILL THIS WINTER

KEY POINTS

- HUSKY, a proven performer
- Drill from Mid-October to Mid-April; ultra-flexibility
- Proven winter hardiness in trials and on-farm

VARIETY PROFILE / AGRONOMICS

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>LODGING</th>
<th>EARLY TO RIPEN</th>
<th>MILDEW</th>
<th>KPH</th>
<th>WINTER HARDINESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSKY</td>
<td>7</td>
<td>8</td>
<td>5</td>
<td>57.2</td>
<td>5</td>
</tr>
<tr>
<td>Isabel</td>
<td>(7)</td>
<td>(5)</td>
<td>(6)</td>
<td>58.7</td>
<td>NO DATA</td>
</tr>
<tr>
<td>Barra</td>
<td>4</td>
<td>5</td>
<td>3</td>
<td>57.4</td>
<td>3</td>
</tr>
</tbody>
</table>

SOURCE: DAFM WINTER OAT REC LIST 2020

WINTER OATS GIVES €120/HA MORE PROFIT THAN SPRING OATS

(SOURCE: TEAGASC PROFIT MONITORS ‘16 - ‘18)

DRILL PLAN

- **KEY DATES**
  - 15th Aug
  - 1st Sept
  - 15th Sept
  - 1st Oct
  - 15th Oct
  - 1st Nov
  - 15th Nov

- **WINTER WHEAT**
  - 400 seeds/m²
  - 500 kg pack = 3.6 ha

- **HUSKY**
  - 450 seeds/m²
  - 500 kg pack = 3 ha

Up to mid-April
KEY POINTS

- Exceptional on farm performance 2017-2019 (c. 10-11 t/ha grain yield)
- Less fungicides & nitrogen than winter wheat
- Very secure harvest with very low risk of lodging, sprouting and Fusarium
- Very suitable for wholecrop, as grain markets are developing

VARIETY PROFILE / YIELD

SEEDTECH HYBRID RYE TRIALS 2017-2019

“Can be drilled early - tolerates BYDV & Take-all”

YIELD (TONNES PER ACRE)

<table>
<thead>
<tr>
<th>VARIETY PROFILE</th>
<th>WHEAT (AVG: JB DIEGO &amp; GARRUS)</th>
<th>RYE (AVG: BONO &amp; DANIELLO)</th>
</tr>
</thead>
<tbody>
<tr>
<td>YIELD (T/AC)</td>
<td>4.4</td>
<td>4.6</td>
</tr>
<tr>
<td>PLANT HEIGHT (CM)</td>
<td>40</td>
<td>120</td>
</tr>
</tbody>
</table>

GETTING THE MOST FROM KWS BONO

- Drill 200 seed/m² from mid Sept to early October
- Drill into take-all prone sites for maximum benefits
- Drill shallow (less than 5 cm), watch for slugs
- Apply plant growth regulators early, often and at robust rates in spring

VARIETY PROFILE / AGRONOMICS

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>YIELD (T/AC)</th>
<th>KPH</th>
<th>LODGING RESISTANCE</th>
<th>SEPTORIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>KWS BONO</td>
<td>4.4</td>
<td>74.9</td>
<td>6.5</td>
<td>7.5</td>
</tr>
<tr>
<td>KWS EDMONDO</td>
<td>4.6</td>
<td>73.7</td>
<td>6</td>
<td>7.5</td>
</tr>
<tr>
<td>JB Diego ©</td>
<td>4.0</td>
<td>76.3</td>
<td>7</td>
<td>5</td>
</tr>
</tbody>
</table>

SOURCE: SEEDTECH TRIALS 2017-2019

DRILL PLAN

<table>
<thead>
<tr>
<th>KEY DATES</th>
<th>15TH AUG</th>
<th>1ST SEPT</th>
<th>15TH SEPT</th>
<th>1ST OCT</th>
<th>15TH OCT</th>
<th>1ST NOV</th>
<th>15TH NOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYBRID RYE</td>
<td>200 seeds/m²</td>
<td>250 seeds/m²</td>
<td>450kg pack = 6ha</td>
<td>450kg pack = 5ha</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**KEY POINTS**

- Highest yielding bean on DAFM Rec List 2020
- Excellent disease resistance including Downy Mildew
- Excellent stem stiffness and harvest security

**VARIETY PROFILE / YIELD**

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>PLANT HEIGHT (CM)</th>
<th>DOWNY MILDEW</th>
<th>CHOCOLATE SPOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>LYNX</td>
<td>127</td>
<td>(7)</td>
<td>(7)</td>
</tr>
<tr>
<td>Fanfare</td>
<td>131</td>
<td>(7)</td>
<td>(6)</td>
</tr>
<tr>
<td>Boxer</td>
<td>125</td>
<td>(6)</td>
<td>(5)</td>
</tr>
</tbody>
</table>

**SOURCE: DAFM REC LIST 2020**

Consistent performer on the farm
KEY POINTS

- Big, bold grain, suits rolling especially
- Excellent resistance to straw breakdown – security at harvest
- Excellent overall disease resistance – no surprises for the feed barley grower

VARIETY PROFILE / YIELD

Feed barley specifically bred for Ireland’s climate and harvest

VARIETY PROFILE / AGRONOMICS

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>NET BLOTCH</th>
<th>MILDEW</th>
<th>RHYNCHO</th>
<th>BRACKLING</th>
<th>GRAIN SIZE (TGW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY ARDERIN</td>
<td>7</td>
<td>8</td>
<td>6</td>
<td>7</td>
<td>51.0</td>
</tr>
<tr>
<td>Gangway</td>
<td>8</td>
<td>8</td>
<td>5</td>
<td>7</td>
<td>47.2</td>
</tr>
<tr>
<td>Limona</td>
<td>8</td>
<td>8</td>
<td>7</td>
<td>6</td>
<td>46.6</td>
</tr>
</tbody>
</table>
KEY POINTS

- Excellent straw characteristics
- Excellent disease resistance and good grain quality
- Malt potential

VARIETY PROFILE / YIELD

An all rounder of a spring Barley

VARIETY PROFILE / AGRONOMIC PERFORMANCE

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>NET BLOTCH</th>
<th>MILDEW</th>
<th>RHYNCHO</th>
<th>LODGING RESISTANCE</th>
<th>KPH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY ERRIGAL</td>
<td>8</td>
<td>8</td>
<td>5</td>
<td>7</td>
<td>65.9</td>
</tr>
<tr>
<td>Gangway</td>
<td>8</td>
<td>8</td>
<td>5</td>
<td>6</td>
<td>68.3</td>
</tr>
<tr>
<td>Planet</td>
<td>5</td>
<td>8</td>
<td>5</td>
<td>5</td>
<td>66.5</td>
</tr>
</tbody>
</table>
KEY POINTS

- Highest yielding malt barley on DAFM list 2020
- Excellent disease resistance – our cleanest barley
- Zero GN variety so flexible for end use markets
- Requires straw management to achieve top yields

VARIETY PROFILE / AGRONOMICS

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>YIELD</th>
<th>MILDEW</th>
<th>RHYNCHO</th>
<th>NET BLOTCH</th>
<th>LODGING RESISTANCE</th>
<th>KPH</th>
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</thead>
<tbody>
<tr>
<td>LAUREATE</td>
<td>103</td>
<td>8</td>
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<td>8</td>
<td>4</td>
<td>65.8</td>
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<tr>
<td>Planet</td>
<td>102</td>
<td>8</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>66.9</td>
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<tr>
<td>Gangway</td>
<td>98</td>
<td>8</td>
<td>5</td>
<td>8</td>
<td>6</td>
<td>68.3</td>
</tr>
</tbody>
</table>

SOURCE: DAFM MALT LIST 2020

SUGGESTED AGRONOMY

SEEDLING RATE: 350 seeds/m2
TARGET PLANT COUNT: 300 plants/m2
TARGET HEAD COUNT AT HARVEST: 1000 heads/m2
ROTATION: Avoid years 1-3 after ley, suits long term arable rotations
BASE FERTILIZER: Ensure good Potassium (K) levels, normal lime and Phosphorous (P)
NITROGEN FERTILIZER: Max 150 kg/ha (120 units/ac) – adjust for organic manures etc. Typically LAUREATE receives 125kg N/ha (100 units/ac) to manage lodging and achieve exceptional yields
FUNGICIDE: Normal/reduced programs suit LAUREATE as excellent disease resistance
PGR: Apply PGR to reduce lodging risk such as:
   CCC/ Moddus/Medax Max at gs 30-32
   or
   Terpal/Medax Max at gs 32-39
Consult an IASIS approved agronomist for specific PGR advice
KEY POINTS

- Good disease resistance of the key spring wheat diseases
- Stiff straw with low lodging risk
- Suitable for wide range of soils

VARIETY PROFILE / YIELD PERFORMANCE

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>RELATIVE YIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>KWS STARLIGHT</td>
<td>104.4</td>
</tr>
<tr>
<td>KWS CHILHAM</td>
<td>103.3</td>
</tr>
<tr>
<td>KWS TALISKER</td>
<td>105.6</td>
</tr>
</tbody>
</table>

“Suitable for wide range of soils”

SOURCE: DAFM REC LIST 2020

VARIETY PROFILE / AGRONOMIC PERFORMANCE

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>MILDEW</th>
<th>SEPTORIA</th>
<th>YELLOW RUST</th>
<th>SPROUTING</th>
<th>KPH</th>
</tr>
</thead>
<tbody>
<tr>
<td>KWS STARLIGHT</td>
<td>(6)</td>
<td>(6)</td>
<td>(7)</td>
<td>(7)</td>
<td>80.2</td>
</tr>
<tr>
<td>KWS Chilham</td>
<td>7</td>
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<td>(7)</td>
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<tr>
<td>KWS Talisker</td>
<td>(7)</td>
<td>(6)</td>
<td>(8)</td>
<td>(7)</td>
<td>78.4</td>
</tr>
</tbody>
</table>

SOURCE: DAFM REC LIST 2020