

Yara Training Day
Edinburgh
28th September 2017



Variety choice: Key performers and what
to look out for in 2018

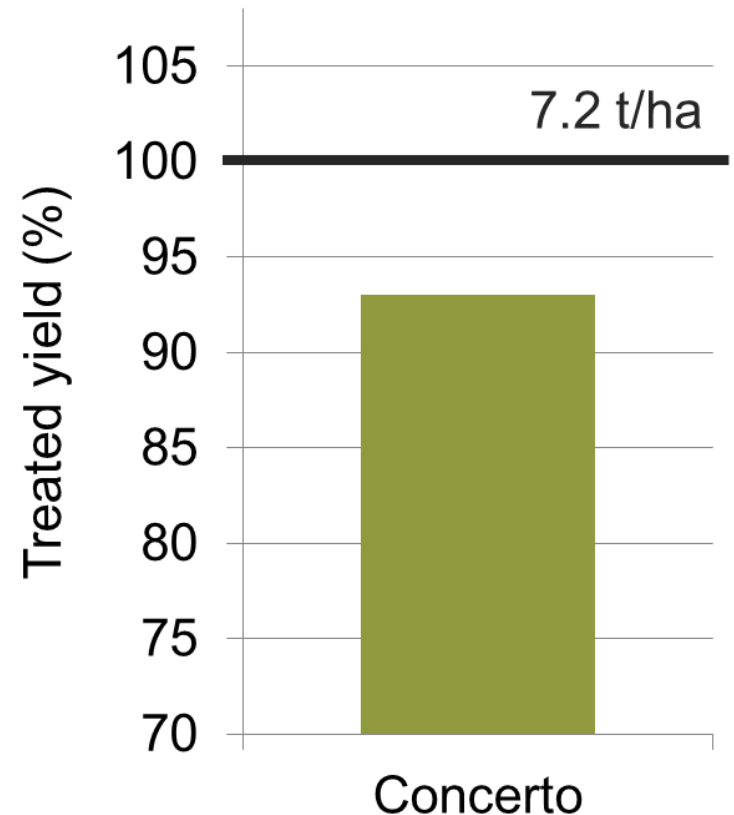
Steve Hoad, SRUC

Headlines

- Sixteen spring barley varieties on Scottish List
 - Eight malting varieties at Provisional Year 1, 2 or 3
- Consolidation of winter barley choices, with some yield improvement
 - Two-row winter barley dominated by one breeder
 - Most six-row choices are hybrids
- New soft wheat options
 - Three new Group 4 varieties
 - More limited choice with other nabim Groups
- New spring oat varieties, but more limited choice in winter oats and spring wheat

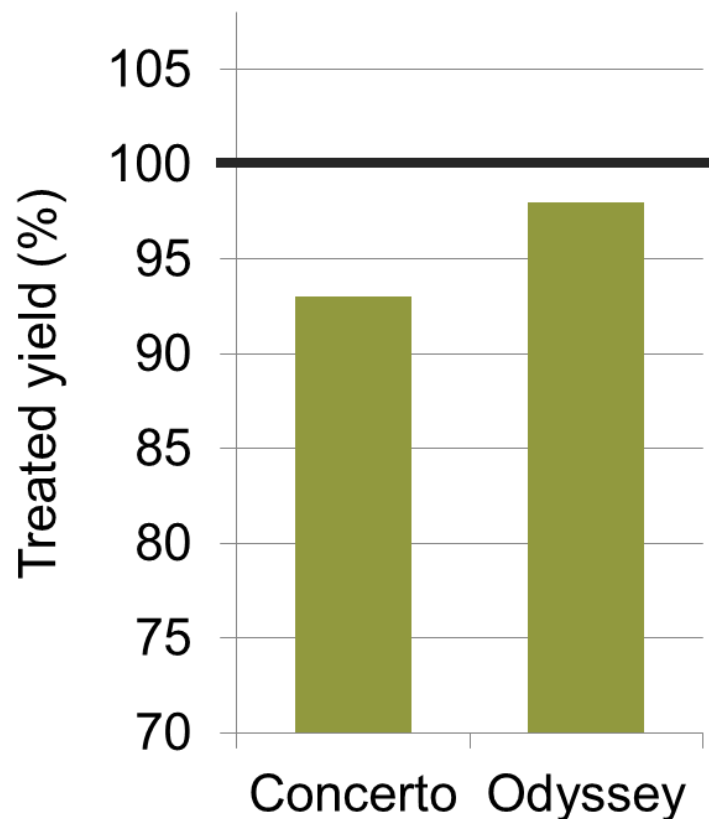
Concerto – *Dominant, but outclassed on yield*

- 9th year on RL
- More than $\frac{3}{4}$ of Scottish spring malting barley intake
- Good grain and malt quality (apart from skinning)
- Low agronomic yield
- Moderate straw strength, weak for *Rhynchosporium*



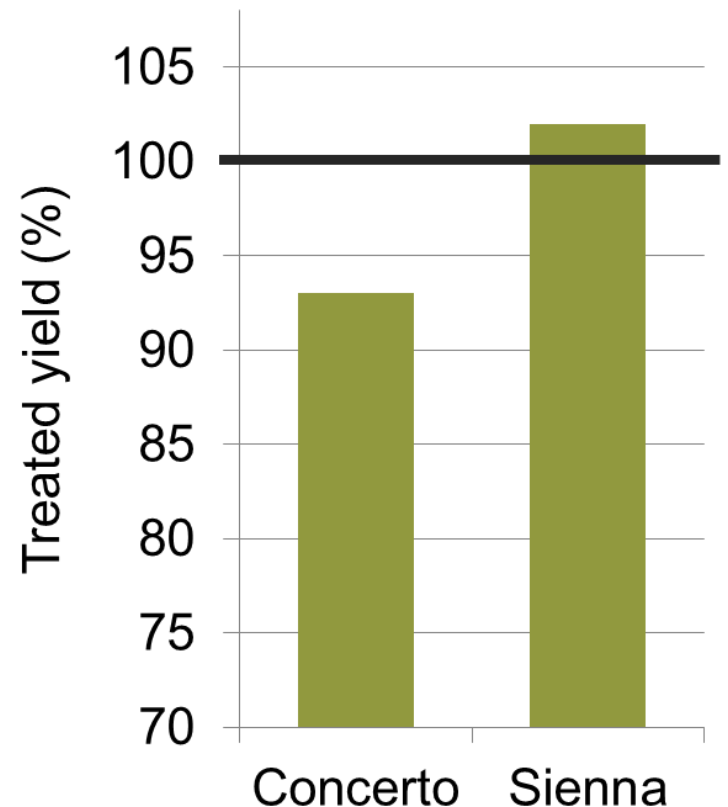
Odyssey – *Not fulfilled its early promise*

- 6th year on RL
- Full IBD Approval
- Small % of Scottish intake (higher % in England)
- Agronomics are a slight improvement on Concerto
- Some regional sensitivity in performance



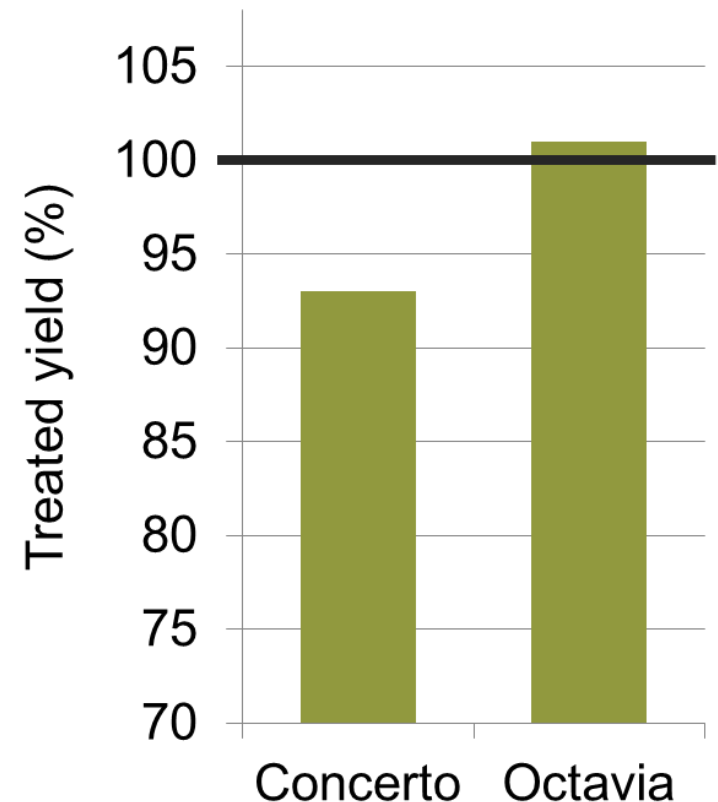
Sienna – *Further assessment in 2017*

- Provisional year 3 (Scottish List)
- Has IBD Full Approval for distilling
- 9% higher yield than Concerto
- With better straw strength and *Rhynchosporium* resistance
- Very high specific weight
- Future will depend on additional tests and progress with other new varieties



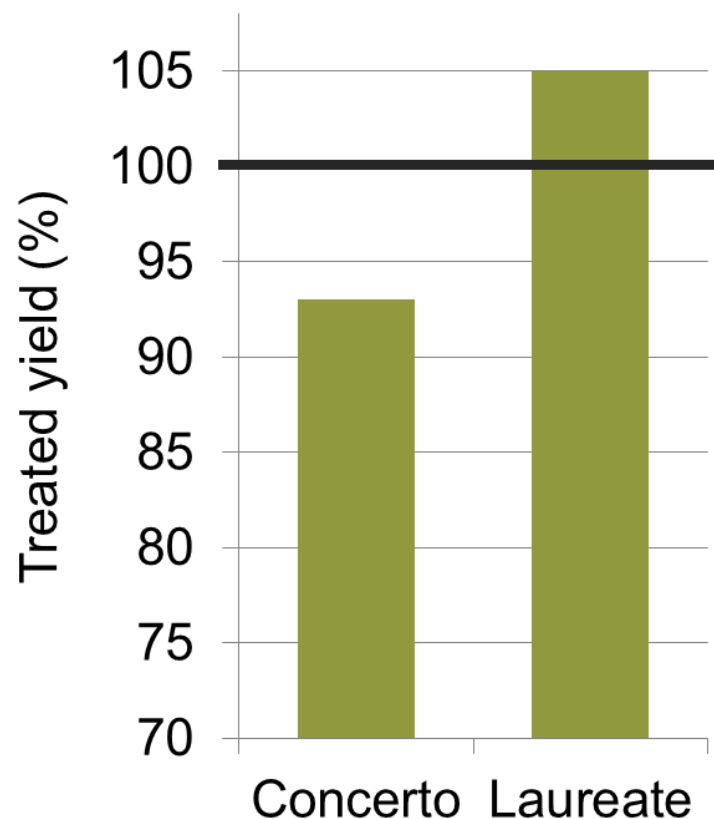
Octavia – *Industry to judge future in 2017*

- Provisional year 3 (Scottish List)
- Full IBD Approval for brewing and distilling
- Small intake at harvest 2016
- 8% higher yield than Concerto
- Moderate straw strength, higher brackling risk
- Low specific weight



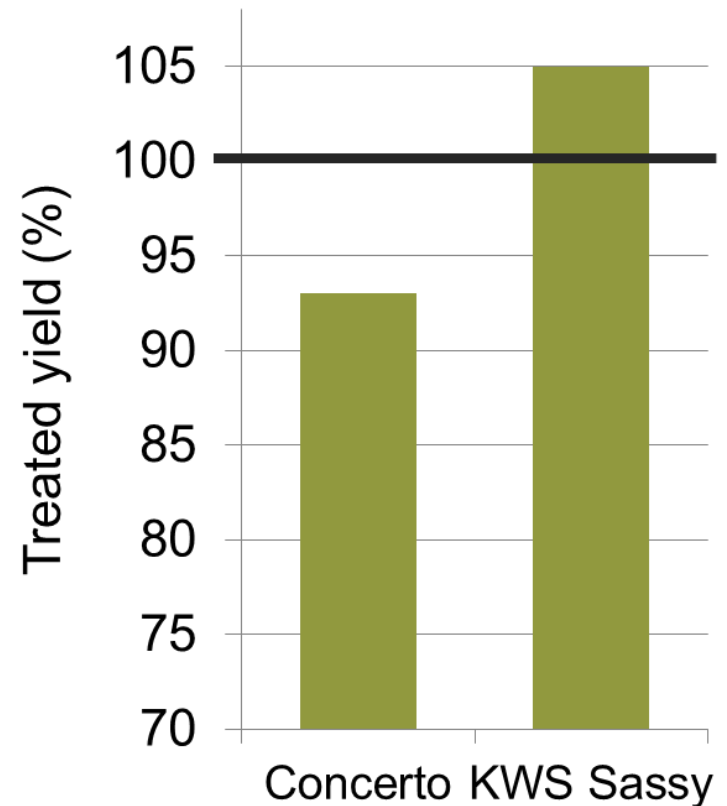
Laureate – *Promising new B&D variety*

- Provisional year 2
- Full IBD Approval for brewing and distilling
- Promising grain quality
- 12% higher yield than Concerto
- Strong agronomic features
- Short straw
- Low specific weight



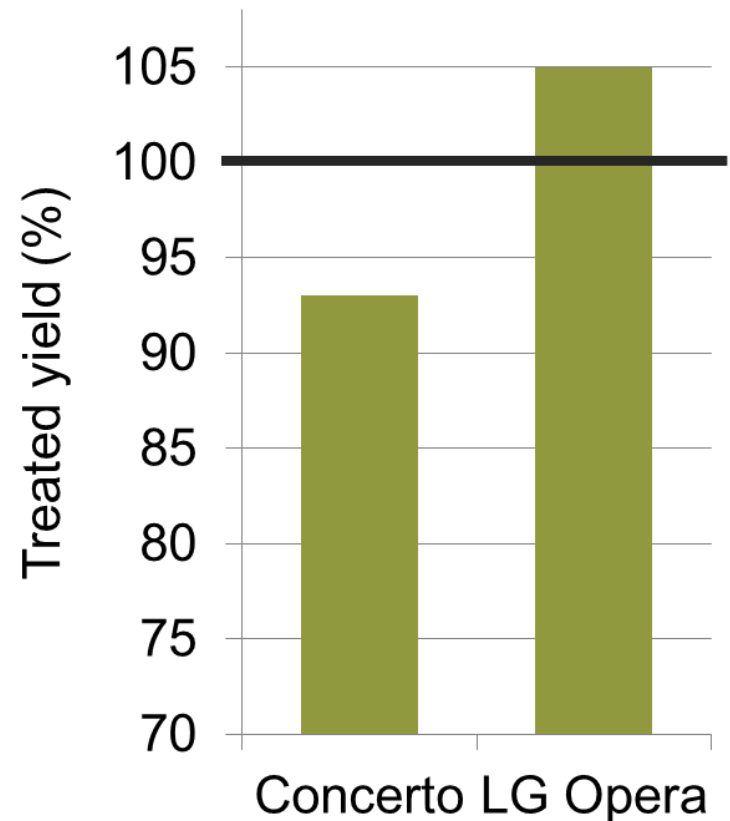
KWS Sassy – Needs to find market

- Provisional year 3
- Full IBD Approval for distilling
- Could develop distilling support
- 12% higher yield than Concerto
- Moderate agronomic features e.g. straw stiffness and brackling
- Low screenings



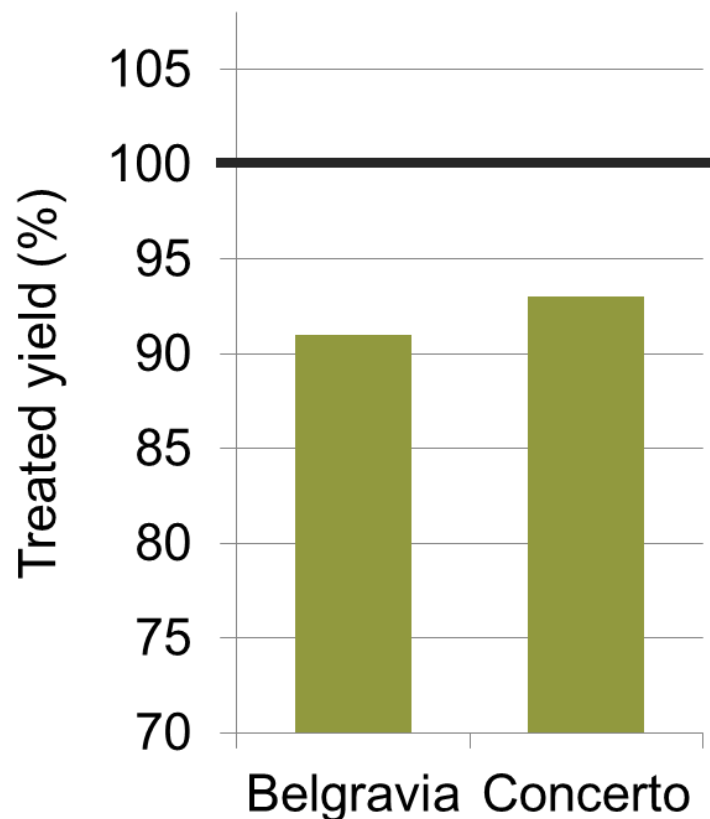
LG Opera – *No future for malting*

- P1 on Scottish and AHDB Lists
- Failed to achieve IBD Approval
- 12% higher yield than Concerto
- Early maturity
- Short straw, moderate strength
- Good brackling resistance
- Low specific weight and high screenings



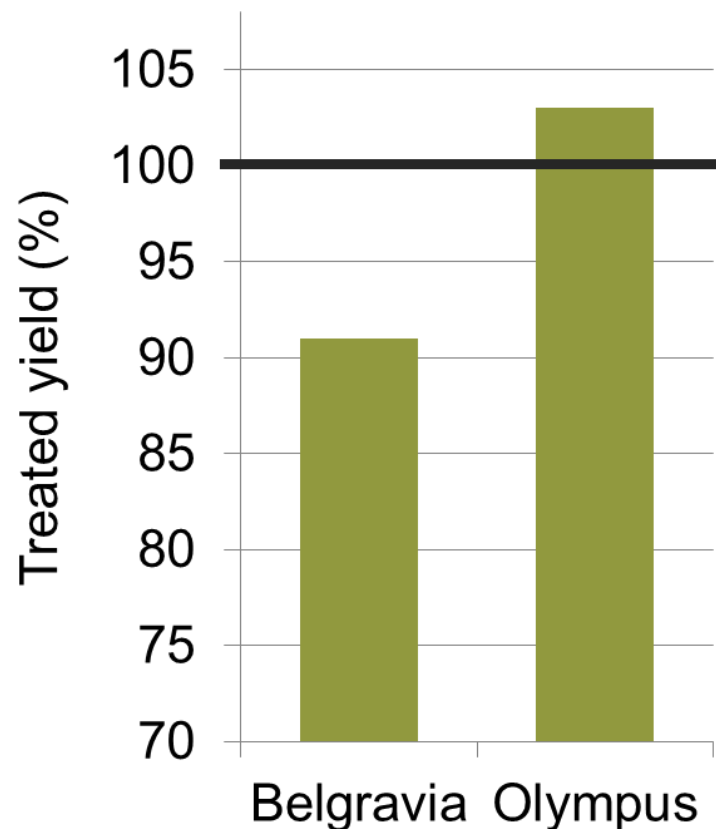
Belgravia – *Established GD variety*

- 10th Year on RL
- Rated as ‘Outclassed’ on Scottish List
- Full IBD Approval for grain distilling only
- Grain distilling varieties tend to have a yield penalty
- No severe agronomic weaknesses
- Relatively tall straw



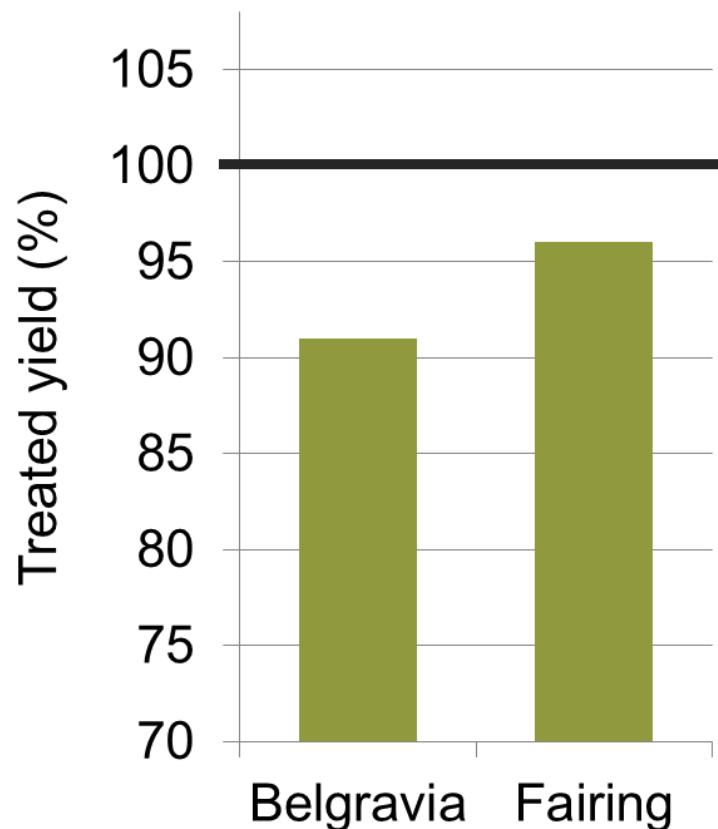
Olympus – *Limited interest so far*

- P3 on Scottish List
- Full recommendation on AHDB RL
- High yield for a GD variety
- Removed from IBD Approved List
- Careful management to achieve grain N% specification
- Good agronomics, apart from moderate brackling resistance



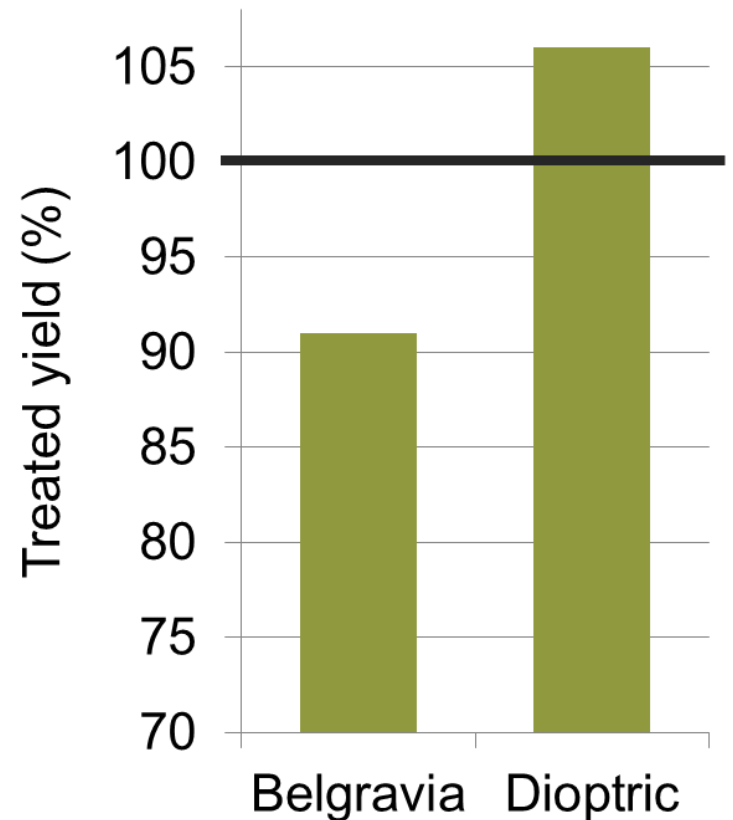
Fairing – *New GD choice*

- P2 on Scottish List
- Has a specific GD use on AHDB RL
- Provisional IBD Approval for D and GD
- 5% yield improvement over Belgravia
- Earliest variety on the RL
- Strong agronomic features, including very good *Rhynchosporium* resistance



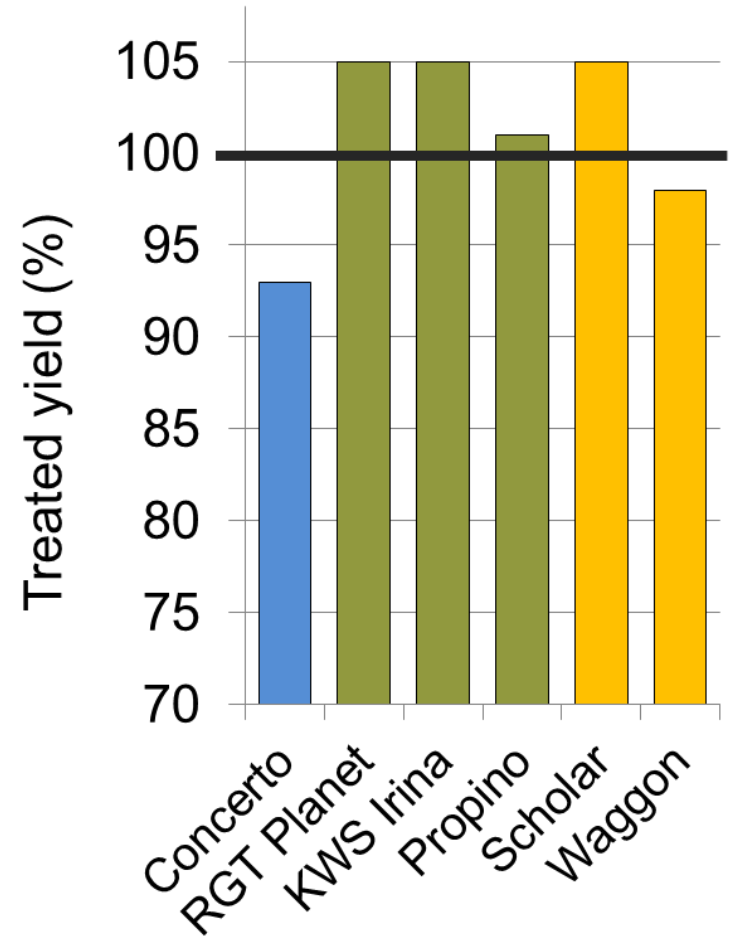
Dioptric – *New variety, possible for GD use*

- P1 on Scottish List
- Has a North region use on AHDB RL
- Under test for GD only
- Very high yield
- Wait and see for high grain N% and enzyme levels (for GD use)
- Strong agronomic features, but screenings are above average



Brewing varieties – *also suit feed use*

- RGT Planet
- KWS Irina
- Propino
- All three brewing varieties are competitive for yield and are relatively early with good straw strength
- Scholar is a fully recommended feed-only variety
- Waggon has become outclassed for yield



Spring oats – *two new varieties*

- Yukon

High treated and untreated yield.

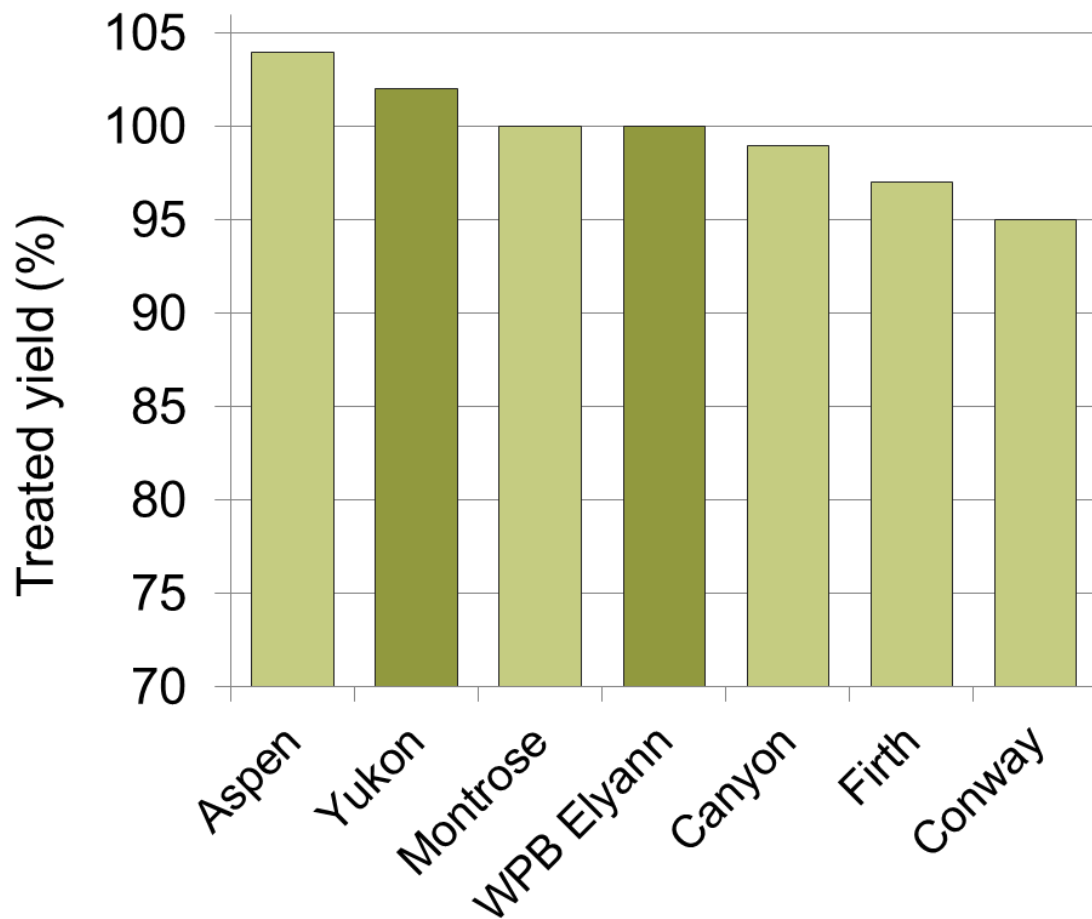
Intermediate for kernel content and specific weight. Stiff straw.

- WPB Elyann

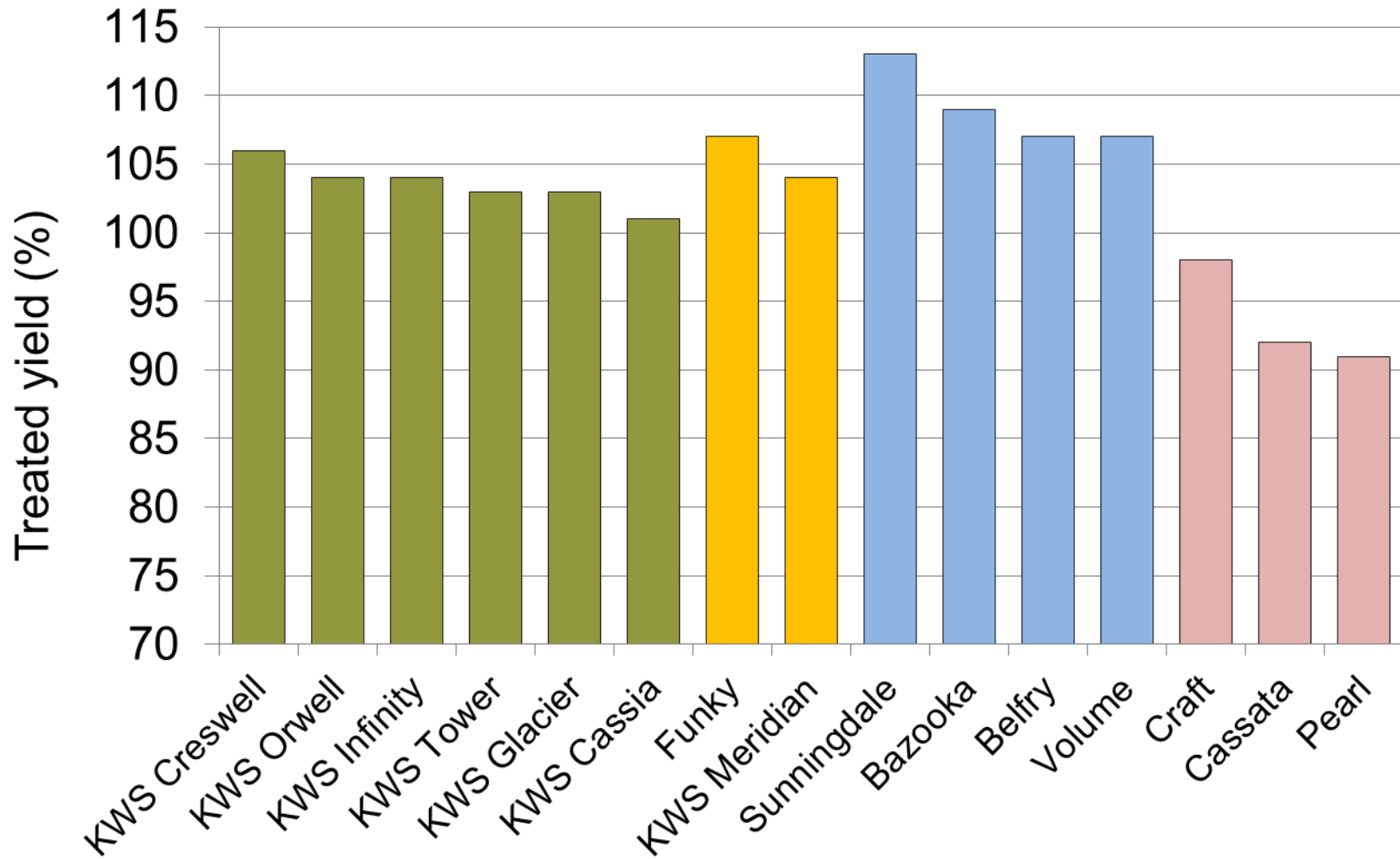
Good yield. High

kernel content and low screenings.

Intermediate specific weight.



Winter barley – Scottish List 2017



Winter barley – *Varieties in second year on RL*

- KWS Orwell

High yielding two-row. Performs well on lighter soils. Intermediate specific weight and relatively low screenings. Stiff straw. Weak against mildew.

- Bazooka

Hybrid six-row. High yield. Good specific weight and relatively low screenings. Stiff straw.

- Belfry.

Hybrid six-row. High yield. Intermediate for specific weight and screenings. Stiff straw. Relatively early.

- Craft.

New malting variety. Special use only. Good grain quality and above average agronomic features.

Winter barley – *Varieties in first year on RL*

- KWS Creswell

Two-row variety. High yield, but relatively low untreated yield. Early (similar to KWS Glacier), but otherwise has average agronomic features.

- Funky

Conventional six-row variety. High yield. Above average agronomics, with stiff straw. Screenings can be high.

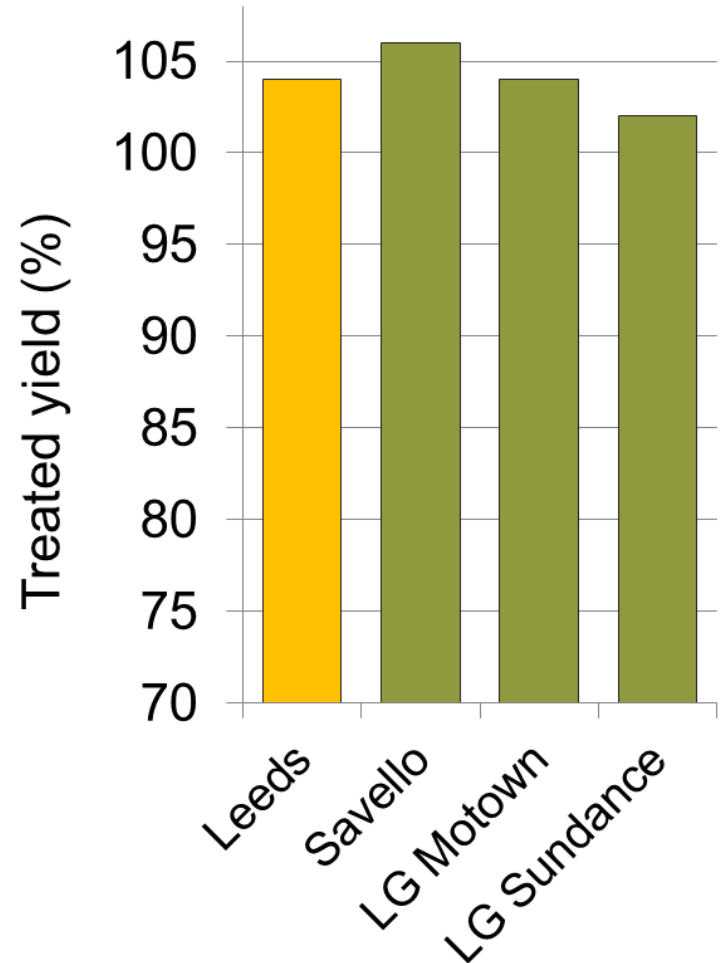
- Sunningdale

Hybrid six-row. Very high yield. Intermediate for specific weight and screenings. Average agronomic features.

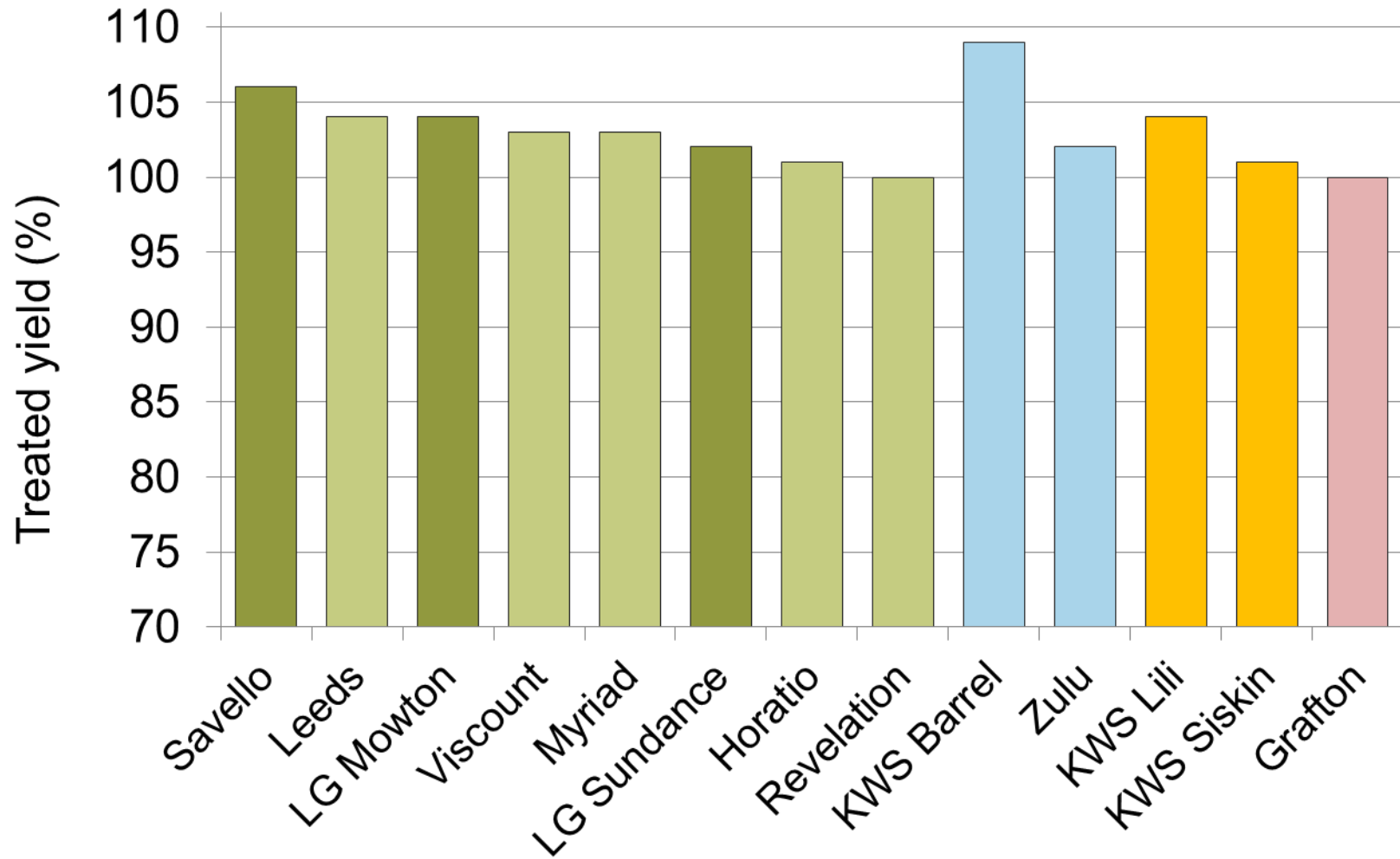
Winter wheat – *New soft distilling varieties*

First year of recommendation – all rated as medium for distilling. All earlier than Leeds.

- **Savello.** Good North region yield. Lowish HFN and specific weight. Moderate agronomic features.
- **LG Motown.** Good North region yield. Good untreated yield. Lowish HFN and specific weight. Good disease resistance (apart from Eyespot). Early maturity.
- **LG Sundance.** Low HFN and specific weight. Very good *Septoria* resistance. Stiff straw.



Winter wheat – Scottish List 2017



Summary

- Evaluate new spring barley varieties for malt and grain distilling. For feed use, consider high yielding brewing varieties
- New high yielding winter barley choices in 2 and 6 rows
- Several new soft wheat options for distilling use
- New spring oat varieties



Thank you