

**WGIN Management Meeting
6th December 2013@ Limagrain, Woolpit, Suffolk**

Final Minutes

Attendees:-

Peter Shewry, Malcolm Hawkesford, Kim Hammond-Kosack, Simon Griffiths, John Foulkes, Simon Berry (Limagrain), Jacob Lage (KWS), Andy Greenland (NIAB), Ellie Marshall (HGCA), Roger Sylvester –Bradley (ADAS), David Feuerhelm (Syngenta), Steve Smith (Elsons), Giulia Cuccato (defra)

Welcome – Peter Shewry

Actions from the last meeting - None pending

RESEARCH UPDATES

Objective 2, 3 and 4 – Tools and Resources (Simon Griffiths)

Presentation - **001 S Griffiths**

Simon provided an update on his research covering objectives 2, 3, and 4. . The manuscript on the genetic structure of the Watkins collection has now been submitted to TAG.

ACTION ITEM no.1 Once papers are published full details to go on the WGIN website. – All to check website and provide missing details to new WGIN project assistant

Q. Are KASPAR markers now in use, on the Watkins collection and the A x C DH population?

A. yes, they are being used for both.

Comment (C). Liz Sayers at JIC distributes and maintains the original A x C seed stocks

C - Vanessa to look at Paragon x Chinese Spring line in the Take-all project.

C. On the ppt slides 3N stands for aluminium tolerance.

Objective 8 – NUE (Malcolm Hawkesford)

Presentation – **002 M Hawkesford**

Diversity: AC Barrie x Zeberdee are the two cultivars dropped this year from the WGIN diversity trial and have been replaced by two new cultivars.

Abbreviations used in the ppt- NDVI – normalised difference visualised at index;
UAV - unmanned aerial vehicle.;

An EU training scheme used the WGIN diversity trial to measure various traits

In press publication – Field Crops Research – on N partitioning

Q. What distance above the crop does the OptiKopter fly?
A. 1 to 100 m

Q. Does RRes own this UAV?
A. Yes

Q. How many wavelengths spectral camera?
A. 3

Q. Are their height and location restrictions on its use?
A. Yes and formal training by the company is require for each operator

C. non-commercial, low altitude
C. 2kg battery, 10min flight time, 2kg payload
C. Flight is point to point to point , via GPS co-ordinates which are the field plan

Objective 10 - Take-all (Kim Hammond-Kosack)

Presentation – **003 K Hammond-Kosack**

C . Ian Olston farm at Honningham, near Norwich has a Weighbridge on the farm. He could be approached to take 2nd wheat yields from different fields.

Objective 9 – Drought Tolerance (John Foulkes)

Presentation – **004 J Foulkes**

Q. About anthesis and crop senescence?
A. – The number of days after anthesis to reach a score of 9.5 is measured in is the thermal time and this is called the senescence duration. This is a flag leaf measurement.

ACTION ITEM No. 2: All the data sets for the three soil based traits namely NUE, WUE and resistance to Take-all need to be statistically inter-compared. **Malcolm, John, Kim and the RRes stats dept.**

ACTION ITEM No.3: all suggestions for 2014, stakeholder meeting November 2014, millers, farms, agronomists, breeders, researchers

Other topics discussed

1. Martonvasar workshop 2014
Simon Griffiths update – if funded by the BBSRC to invite Breeders Central Europe – Novi Sadi, Germany, Poland
Dates 11th to 14th May. Also the BBSRC ISIS application was successful.

2. Future workshops – international
CIMMYT – to go there March 2015 rest below this unreadable

3. A cost – benefit analysis on the entire WGIN project will be done in early 2014 by HGCA free of charge.
4. WGIN 3 – could the millers become more involved and come to the MMs

Legacy Document Ideas

- **To compare and contrast WGIN to WISP, BBSRC clubs and AgriTech Catalyst**
 - Prepare for a Stakeholder event year 12 at RRES in Nov / early Dec – to go through the resource and overall legacy. Never done this before
 - Training aspect, internships. For example how many PhD students, MSc and undergraduates have directly benefitted from WGIN. This was an unanticipated major outcome of WGIN.
 - Add a new section at the start of the next Newsletter on the fact that we are preparing this legacy document
 - Agritech Catalyst projects, because these are industry led, we do not know what WGIN data and resources will be used in them. How to we therefore capture this impact.
 - 10 years of data in the public domain so far. We do not know which research groups globally have downloaded this. Could we obtain the website hit rates/ per year / per country.