Dear CAIGE colleagues,

Welcome to the May edition of the CAIGE newsletter.

Welcome to the May edition of CAIGE newsletter. It is a busy time of the year with either sowing for us, down South or harvesting up North.

Our colleagues are back from their travelling and shared their personal experience with us.

The Wheat+Durum team flew to CIMMYT-Mexico this year while the barley group went ICARDA, Morocco. On behalf of Prof Richard Trehowan (CAIGE Project Leader) and Dr Mark Dieters (CAIGE Barley Leader), I would like to thank everyone in CIMMYT and ICARDA for welcoming and looking after our Australian delegation during their respective visits. All of them reported they had a great time and deeply appreciated their visits which will be extremely valuable for their work. More details about their visits in Mexico on page 2.

October is coming soon and we are starting to prepare the Yield Trial CAIGE tours. This year, we will try to group durum and wheat trials’ visit together. The barley Yield Trial tour will be separately organized for its second consecutive year. It will be very busy but we are looking forward to it! Dates and a quick itinerary will be advertised next month.

Sandra Micallef passed on her role regarding CAIGE coordination. However, she will still be involved in CAIGE as the Data & Website Administrator. I am looking forward to working with you all and try to keep all the good work that have been accomplished through the previous years.

Enjoy reading the newsletter! Don’t worry the section “Laughter, the best medicine” will always be a part of the newsletter :)

A bientôt,

Marine Guerret
Coordinator CAIGE project

---

**Did you know...**

The Australian recommendation for serves of grain (cereals) is more likely achieved by males rather than females—35% compared to 25%. Only 30% of Australia has sufficient grain intake. People over 71 years old have the most wholegrain intake of the entire nation!
CAIGE Breeders’ Tour to CIMMYT Mexico

A group of Australian wheat breeders and scientists travelled last March to CIMMYT (International Maize and Wheat Improvement Center) in Mexico. The annual trip was organised and partially funded by the CAIGE project. The project objective is to provide to Australian breeders and scientists priceless exposure to the research undertaken at CIMMYT. Moreover, the group was able to select materials they would like to try back in Australia. CIMMYT will process they request and send the selected materials later on this year.

We would like to thank participants for sharing with us some pictures!

Prof. Richard Trethowan joined the group and kindly shared with us his impression of trip:

“The breeder trip to CIMMYT in Mexico was a great success and the selections made in bread wheat and durum wheat probably more relevant than ever. The group was large and included Michael Quinn (Intergrain), Jason Able (University of Adelaide), Ian Edwards (Edstar Genetics), Tom Kapcejevs (AGT), Marie Appleby (LongReach), Fernanda Dreccer (CSIRO) and Richard Trethowan (University of Sydney). After a less than auspicious start with a number of people delayed en route, the team eventually assembled in the field at Ciudad Obregon. The CIMMYT breeders made their data available and for the first time extensive quality data was accessible to assist the selection of materials. Carlos Guzman, the new head of the CIMMYT wheat quality laboratory is now providing milling yield data in addition to dough rheological data and has greatly increased the throughput of the laboratory. The group was also very impressed by the Seeds of Discovery work and the good agronomic types achieved from the introgression of unadapted but stress tolerant wheat diversity. The group participated in the CIMMYT field day and heard presentations covering the breadth of wheat research at this international center. It was a great opportunity to meet CIMMYT staff and to gain insight into the function of the program and the materials developed.”

Prof Richard Trethowan
University of Sydney, Project leader CAIGE
The CAIGE yield trials for wheat, barley and durum have been designed and allocated with the generous collaboration of the breeding companies and government funded institutions. This year we have a total of 22 yield trials around Australia, which is an incredible increase from the 5 yield trials of only 2 years ago. As you can imagine, coordinating these trials involves a level of cooperation between all parties, and the CAIGE management thanks all our collaborators for taking part in these trials. Details and designs of the trials can be found on the CAIGE website.

**Barley**

The barley yield trials will be held on 4 sites in South Australia, 2 in Western Australia, 1 in Queensland and one in Victoria, with the participation of Intergrain, University of Adelaide, AGT, EdStar Genetics and QLD DAF.

**Durum**

This year, the durum trials will be held for the first time through CAIGE. AGT will be doing 3 trials in the southern region, the University of Adelaide has 3 trials in the northern region while NSW DPI will conduct a larger trial in Tamworth.

**Wheat**

The wheat yield trials will be held in the northern, southern and western regions by our collaborators at AGT, LPB, Intergrain, EdStar Genetics, Bayer Crop Science and the University of Sydney.

---

**BARLEY >> YIELD TRIALS >> 2016 YT**

**DURUM >> YIELD TRIALS >> 2016 YT**

**WHEAT >> YIELD TRIALS >> 2016 YT**
Quarantine material release

CAIGE material from 2015 shipment has just been released from quarantine in Tamworth. This year, material includes:

- **ZIF16**– ICARDA spring bread wheat
- **ZWB16**– CIMMYT Dr. Ravi Singh spring wheat selection
- **ZIZ16**- ICARDA selected bread wheat by Australian breeders in 2015
- **ZDL16**- ICARDA 39th International durum observation nursery
- **ZDK16**- ICARA 39th International durum yield trial
- **ZIC16**– ICARDA barley
- **SBP16**- ICARDA durum and wheat ( still need to be increased and will be available early next year for distribution)
- **ZDG16** CIMMYT– durum selection has not been released from quarantine for germination issues.

The wheat and durum lines has been sent to the Plant Breeding Institute (Annette Tredrea) for seed increase in Narrabri- New South Wales. Also, samples of each line have been distributed to the Plant Breeding Institute (Harbans Bariana) for rust screening in Cobbitty-New South Wales.

The lines selected by the Australian breeders has been distributed to Bayer Crop Science (Nick Kocyan) to increase in Western Australia.

Regarding the barley material, it has been posted to Dr. Mark Dieters and will be increased in Queensland.

Durum material from batch ZDG16 encountered some germination issues. Brett Lobsey and his team are working on it and hopefully will be able to provide material soon.

From seed increase to be done this year, the material will be then included in the CAIGE Yield Trials of 2016.

All the lists of the material are available on CAIGE website in the Imported Material section of the selected crop (wheat, durum, barley, pulses)

New Data on CAIGE

Since the last edition of CAIGE newsletter some data are now available such as CAIGE annual meeting presentations/report, yield analysis for 2015 trial (wheat and barley) and data from CIMMYT 2016 shipment.

1. CAIGE project Annual meeting presentations and minutes :-

2. Yield analysis from 2015 wheat and barley trials:

3. Data from CIMMYT for 2016 shipment :
Below are the website statistics for the past 2 months. The figure showed we had 16 people on average who visited CAIGE website. Out these 16 visitors, almost half of them were regular. For the past 2 months it has been more quiet than earlier this year. January recorded the highest rate of visits for this year! The main visitors are from Australia, with 90% of hits.

A big thank you for supporting the CAIGE project and any feedbacks are more than welcome.
Laughter, the best medicine

Quick Joke Question— Answer

Q: What does DNA stand for?
A: National Dyslexics Association

Q: Why couldn't the plants escape prison?
A: Their cells were surrounded by walls.

Q: What do you call a microbiologist who has visited 30 different countries and speaks 6 languages?
A: A man of many cultures

Q: What did the scientist say when he found two isotopes of helium?
A: HeHe

academic metabolism

CIMMYT— Australia— ICARDA
Germplasm Evaluation Project

Project Leader (Wheat)
Dr Richard Trethowan

Project Leader (Barley)
Dr Mark Dieters

Data Administrator Sandra Micallef

Project Coordinator Marine Guerret

E: marine.guerret@sydney.edu.au
P: +61-2-9351-8867
M: +61 (0)428 041 817
Skype: marine.guerret

caigeproject.org.au

May 2016 Page 6