

# BARLEY WG REPORT FOR PHASE IX (2014-2018)

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## 1. CONTRIBUTION TO ECPGR OBJECTIVES

### 1.1. Achievements and success stories

*Outcome 1. AEGIS is operational. Accessions in AEGIS are characterized and evaluated.*

*Outcome 2. Quantity and quality of data in EURISCO have been increased. Functionality of EURISCO meets users' expectations.*

There are now 2479 barley accessions flagged as AEGIS. Flagging has been done by 10 institutes representing 14 countries. Of these institutes nine have flagged AEGIS accessions in a Barley WG Activity (CHE 772, CZE 168, EST15, LTU 36, LVA 12, Nordic 576, POL 150, ROU 65 and SVK 43). Only one institute outside of a Barley WG Activity has flagged material, NLD 642. Barley WG Activity participants have the capacity to maintain their European Collections. NordGen, Lithuania, Poland and Slovakia are open for safety duplication under black-box arrangement if needed.

One objective of the activity HordEva was not reached: updating of C&E data in the European Barley database (EBDB). This was not done since the EBDB is currently not funded and no updates have been done since 2001. However, EURISCO is suitable as C&E data repository, and will be used for this purpose. A second activity, Barley C&E data, aims to increase the number of C&E data in EURISCO. As of today (28/02/2018), a total of 41 characterization and evaluation experiments have been uploaded to EURISCO. The Activity "Barley C&E data" extended to May 2018 should result in even more C&E data uploaded to EURISCO; so far only one Activity partner, the Germplasm Research Unit at John Innes (UK) has uploaded data to EURISCO. Most of the data are from NLD not participating in the Activity.

Observations on two barley Activities; 24% of WG members participated and 78% of the countries with registered barley AEGIS accessions participated in an activity.

### 1.2. Gaps or constraints identified

- The AQUAS quality system has not been completed, the Chair will finalize the crop-specific standards during 2018.
- For flagging of AEGIS accessions there are institutes that lack funding for germination tests and regeneration thus precluding material to be flagged.
- AEGIS candidate lists can be delayed at National Coordinator's level a long time before approval.
- Coordination of an Activity and to chair a WG takes a lot of time.
- Countries that do not pay their fee are excluded from submitted activities. A system that allows for replacement participants is recommended.

- The response rate on group emails to the Barley WG can be low, a mail probing interest for the fifth call returned one response and a mail probing interest for the sixth call no response. Also, the response rate from funded Activity participants can be low (<50%), requiring several follow up emails to obtain all information.
- The distribution list for the Barley WG usually contains several old emails that are not valid.

## 2. GRANT SCHEME ACTIVITIES

- **Grant Scheme proposals (submitted: 2; approved: 2)**
  1. [Identification and updating of C&E data in EBDB of AEGIS \*Hordeum\* \(HordEva\) – First Call \(2014\)](#)
  2. [Integration of barley characterization and evaluation data into EURISCO, and development of specifications for a barley crop portal, with a focus to improve the AEGIS collection \(Barley C&E Data\) – Second Call \(2015\)](#)
- **Total number of partners involved: 22 from 16 countries**
  - ECPGR-funded: 19 from 15 countries
  - Self-funded: 6 from 6 countries
- **Meetings held**
  1. HordEva - first meeting, 21 April 2015, Berlin, Germany.
  2. HordEva - Project meeting, 18-20 November 2015, Alnarp, Sweden.
  3. Barley C&E Data: joint workshop with the ForageDataAccess Activity, 14-16 March 2017, Malmö, Sweden.


- **Reports and related data**

1. **HordEva**

-  [Identification and updating of C&E data in EBDB of AEGIS \*Hordeum\* \(HordEva\) – Activity Report](#)

Full data for AEGIS candidates identified in HordEva are available for Bulgaria, France, Latvia, Lithuania, Nordic countries, Poland, Romania, Slovakia and Switzerland. Germany selected approximately 12 500 accessions but flagging has not been done.

2. **Barley C&E Data**

Recommendations from the joint workshop with ForageDataAccess  
 [Workshop recommendations](#)

The Activity was extended till May 2018 and the final report will be available in June 2018.

- **Funds mobilized**
  - ECPGR granted funds: € 30 000
  - Inputs in-kind declared in Grant activities: € 53 000

### **3. OTHER ACTIVITIES (CROSS-WORKING GROUP ACTIVITIES, LINKS WITH OTHER NETWORKS, PROJECTS AND INITIATIVES)**

- **Cross-Working Group activities**  
Grant Scheme:
  - Doc&Info WG: joint proposal with HordEva
  - Forages: joint meeting of Barley C&E Data and ForageDataAccess Activities
- **Others**

### **4. WORKING GROUP DOCUMENTS AND PUBLICATIONS**

### **5. EXPECTED ADDITIONAL ACHIEVEMENTS AND FUTURE ACTIVITIES**