



Schedule A: overview ABS Breeding including Trial and Field Map

1. ABS Breeding in General

ABS Breeding is a web-based application for breeding companies that want to have their data organized, centralized and easily accessible in a SAAS solution. Your research will function more efficiently and you will be able to record results more quickly. Your research, including breeding programs, observations, IP-rights and royalty registrations, will be more easily maintained. The program is easy to share and offers a tracking system of the work to be done for each individual. All data can be labelled to create advanced search options. ABS Breeding visualizes your parental lines up to 9 generations, including photos.

Basic license: This basic license allows up to 5 users and gives access to the main Breeding modules: Crossing, Plant, Location (layout) and Test. The main functionalities of the basic license are: creating new breeding programs, registering of new lots and crossing of existing lots, flexible tests, online observations, reports and photos. An admin tool, which allows user rights and security to be managed, is also included in the basic license.

2. ABS Trial

Documentation of all trials and their outcomes is provided, for own trials as well as third party trials. Possibility to perform observations, report the results, generate overviews and draw conclusions.

ABS Trial consists of the basic modules: Plant, Location (layout) and Test.

3. ABS Field Map

Tool to map Field Map data based on coordinates in Google Maps and provides you with an overview of all your fields at several locations. Based on information like grower/producer, surface, yield estimates, crops, etc.

ABS Field Map consists of the basic modules: Plant test and Location (layout). Field Map is available as an additional module to Breeding and Trial or as a separate application.

4. Basic Module Crossing

All crossings can be registered from your different breeding programs. Father and mother plants can be selected from the database. Advanced search options give the breeder access to the best plants from which to select. Different breeding techniques, such as asexually reproduced species, F1-F8 selections and back crossings, are supported.

5. Basic Module Plant

The module that registers all your varieties. You can add numerous codes, pictures, names and characteristics to each plant.

6. Basic Module Location (layout)

With this module you can manage the field and location of each (group of) plant(s). This module is always implemented, when field tests are performed.

7. Basic Module Test

The system allows you to create flexible tests for your own standard test types. For each test type, you set your own criteria (properties) – these can be configured per variety, inspector and step in the process.

You can also complete your field observations online.

The following modules are additional optional choices (green in schedule A):

1. Additional Module Barcode

The barcode module helps you to manage your crossings, location of offspring, tests and selections in your trial fields on your mobile phone or tablet. You can attach labels to varieties, fields and selected varieties. Scan the labels and enter data on plants, fields and locations online in ABS Breeding. You can view tests in ABS Breeding and enter observations directly in the browser. To use the barcode module you will need an internet connection in your field.

2. Additional Module Plant Breeding Rights

Using this module, you can keep track of your plant breeding rights registrations. It indicates when registrations are about to expire.

3. Additional Module Trademark

With the trademark module, you can register your trade mark registrations.

4. Additional Module Test in Excel

This module allows you to export the defined tests from ABS into Excel. The field inspections will be registered in Excel and uploaded into ABS.

5. Additional Module Offline App

With the offline App, you can perform your tests and register your observations on your layout (trial fields), when you have no internet connection in the field. Before observing, you download the field information from ABS, while you have an internet connection. When offline, you register your observations per test and plant or group of plants. When you have an internet connection again, you can upload the observations you have taken in the field, with or without images. The use of the offline App is preferable on Android tablets.

6. Additional Module User Permissions+

This Module allows the ABS administrator to restrict users' permissions of your ABS Breeding, Trial or Field Map applications. The accessible data is very limited in the plant menu, as well as the crossing and the Layout (locations) menu. The advanced search options, available columns in the finder and the plant form will only show data which the user has permission to see or edit. The User Permissions+ Module can be used to give users from your own company, or from other companies, access to the software, but only for certain input fields.

7. Additional Module Sales & Royalty

Using this module, you can keep track of your customers' activities related to contracts and production. There is also the possibility to register your competitors' production. It provides you with reports on royalties and allows you to set up royalty payments and commission reports.

8. Additional Module Plant, Layout and Crossing with Excel

This module allows you to import a large amount of data in one go into ABS. Test, plant, layout and crossing data can be refreshed quickly using this method. Also, forms for completion to register the results of tests can be easily created and attached to layouts or plants. After completing the data, these can be uploaded into ABS.