

Field Activity Italy

Spring 2023



Open Fields – Azienda Stuard

09-05-2023

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Report on Field Activity in Rigoso - Italy – Spring 2023

March 17th – Field situation assessment

A field visit was performed by Open Fields's personnel, in order to assess the growing stage of the grains that had been planted in autumn, and design the planting operations.

April 5th : planting

Operations were performed by a team of Open Fields and Azienda Stuard agronomists.

The varieties sown in autumn were planted again, for comparison.

Varieties used on April 5th:

DURUM WHEAT: Cappelli and Dauno III (old varieties) and Nazareno (modern variety)

Seeding rate: 400 seeds/m²

BARLEY: Iuventa and Fandaga, specific varieties for the production of beer.

Seeding rate: 300 seeds/m²

The development of the barley and wheat plants sown last autumn was still limited (start of tillering); on average, the field-sown varieties in which biochar was used seem to be developing slightly better, with a more uniform growth.

The barley and wheat that had been sentd from Morocco were sown on 5 April 2023.

Planted varieties:

BARLEY MOUNTAIN HER

1.Zanbaka/H.spont.41-2/4/Arar/H.spont.19-15//Hml/3/H.spont.41-1/Tadmor/5/Zanbakian/7/Lignee527//Bahtim/DL71/3/Api/CM67//Mzq/5/Alanda-01/4/WI2291/3/Api/CM67//L2966-69/6/Lignee527/Chn-01//Arar/Rhn-03

2.WI3257/4/ALISO/CI3909-2//HB602/3/MOLA/SHYRI//ARUPO*2/JET/5/Atahualpa/IraqiBlack

3. Chifaa

4.SLB15-05/4/H.spont.96-3/3/Roho//Alger/Ceres362-1-1/5/Roho/4/Zanbaka/3/ER/Apm//Lignee131

5. Moroc9-75//WI2291/WI2269/5/SLB15-05/4/H.spont.96-3/3/Roho//Alger/Ceres362-1-1

6. P.STO/3/LBIRAN/UNA80//LIGNEE640/4/BLLU/5/PETUNIA 1

The sowing dose was approximately 250 seeds/m², so as to sow approximately 40 m²/line in each of the plots

1.Sebajihan (IDYT44-14)

2. Shabassem (IDYT44-21)

3. Nachit

4. Jabal

5. Zagharin2

6. Faraj

All the varieties were sown at the aforementioned seeding rates in the two adjoining plots specially prepared:

“First field” (manure+Biochar+hoeing)= innovative technique

“Second field” (manure+ploughing+hoeing)=farmer's technique

Sowing was carried out with a Hege row plot seeder (the same used for autumn sowing) and was followed by rolling.

Before rolling, trifoglio repens (clover, CV Huja) was sown broadcast over the entire First field (Innovative Technique). This field was also rolled after seeding.

Regarding the species that were best suited to use as intercropping, the choice was between *T. pratense* and *T. repens*, both suitable for acid soils; the choice fell on the *repens* because this species has a very slow development immediately after emergence and therefore competes little; moreover, being a perennial species, it seemed to us more suitable in view of the formation of a long-lasting meadow and also more suitable for grazing.

Figure 1 – Seeding machine



Figure 2 Seeding



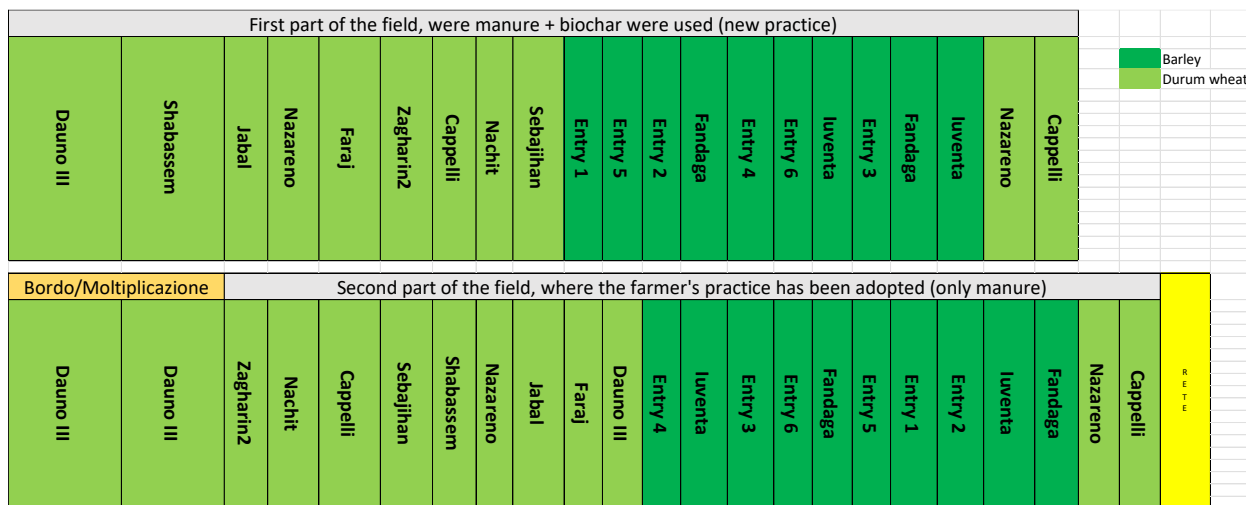
Figure 3 – Clover planting by hand



Figure 5 – Ground rolling after seeding



Figure 6 – The field organization



May 5th : field situation assessment

A new field visit showed that the emergence was excellent.

All plants emerged. The clover is also germinating.

The cereals sown in winter are now on the rise, and everything is going fairly normally too.

Figure 7 – The plants sown in autumn in the front and emerging plants in the rest of the field



Figure 7 – Clover



Figure 7 – The plants sown in autumn



