

PROJECT TITLE

Dissecting the phenomic basis of eco-adaptation in an invasive species complex: Brachypodium

CONSORTIUM

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SUMMARY OF THE REPORT

The project have analyzed genetic variation in droguht tolerance tratis and nutrient limitation across different B. hybridum lines. For that, hybrid plants from different generations were compared to previously collected wild accessions and grown under different soil conditions. Conditions tested included limiting soil water, limiting nutrients and salinity/alkalinity. These were conditions known to exist within both the native ranges and the invaded regions. Thus, we performed trait screen on plants grown under three different watering regimes applied to 4-5 week old well-watered plants. A total population of 2000 individual plants were assessed using the Small Plant Platform, Plants were taken through to seed, in order to measure fitness traits. Plants were screened and were then used for further genomic and genetic analyses.