

Norsk tittel: Analyse av resistens mot aksgroing i norske kornarter- og sorter.

English title: Analyses of resistance to pre-harvest sprouting in Norwegian-grown varieties of cereals



Summary : Resistance to pre-harvest sprouting (PHS) is important to secure a good quality of cereals for food uses, i. e. baking in regions experiencing humid climate during maturation and harvest. To bred varieties with seed dormancy has been one of the most efficient ways to reduce the risk of PHS. For the last 50-60 years, the level of dormancy in the grown varieties in wheat, barley and oats have been tested based on field trials and germination tests. The large files of historical data can be processed to study long-term trends in breeding progress, and to study effects of weather parameters upon the build-up and release of dormancy in the varieties. The thesis can rely on already achieved data, and/or involve the dormancy testing planned for season 2023 by taking part in the experimental work. The thesis can also be limited to one cereal (wheat, barley or oats) to be chosen be the student.

Keywords: Cereals, Pre-harvest sprouting, dormancy, weather parameters, breeding

Language thesis: The thesis can be written in English or Norwegian

Bachelor or Master thesis: The topic can be adapted for Bachelor (15 credits) or Master (30- or 60 credit) levels

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