



YEARS OF PLANT SCIENCE  
**OUR IMPACT**

# INDEPENDENT CROP RESEARCH FOR ALL

NIAB's establishment in 1919 had a major impact on the UK industry. Never before had agricultural scientists come together under one roof.

Today NIAB is unique as an independent, science-based crop research organisation, working across plant science, crop evaluation and agronomy, and ensuring these advances are transferred effectively onto farm.





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# SEED TESTING AND CERTIFICATION

NIAB played a major role in establishing a system of seed testing and certification in the early 20th century.

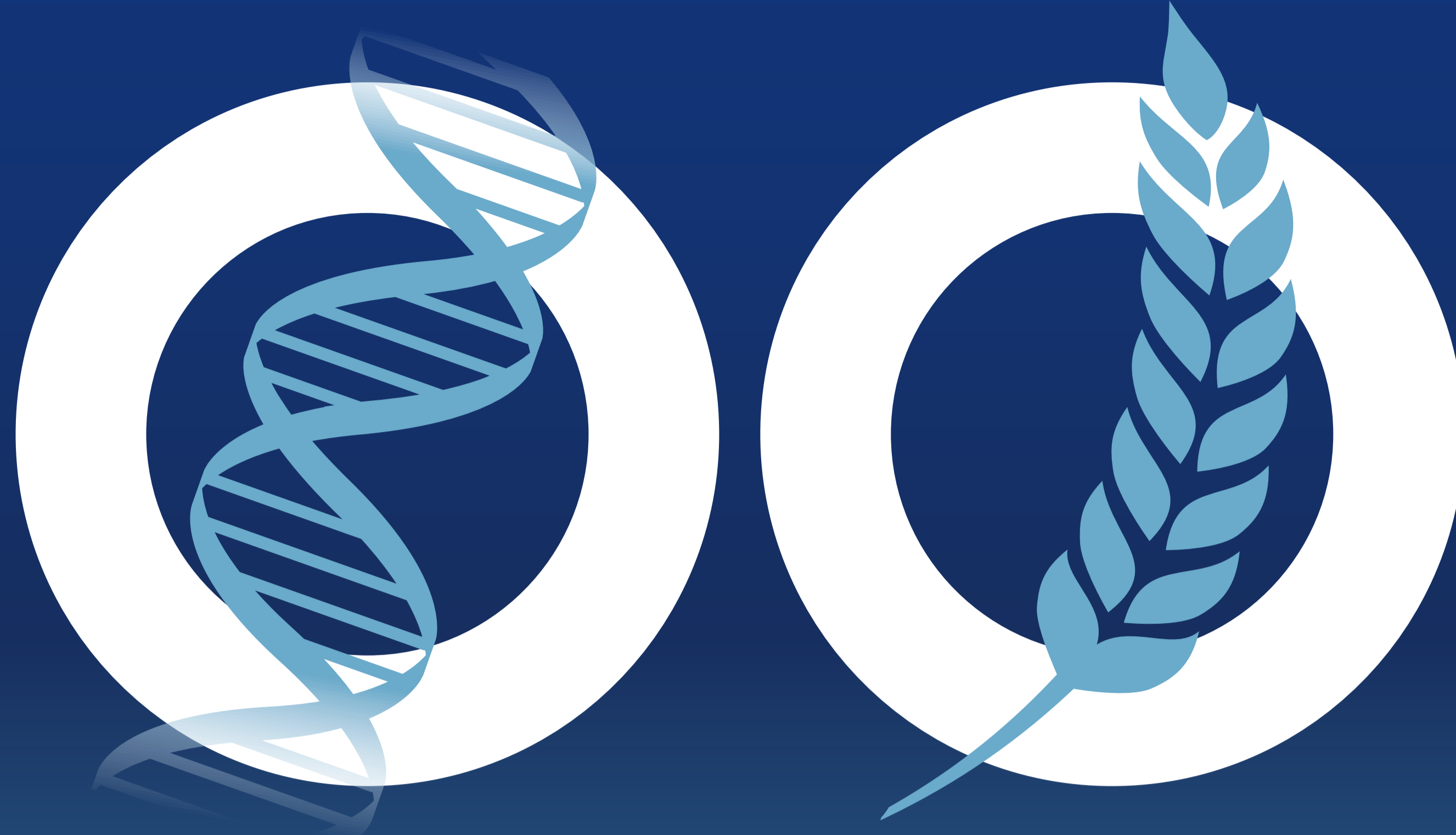
These went on to become central features of the seed industry that are still used today.

The Government's 'Testing of Seeds Order' of 1917 required that all seed sales had to be preceded by the testing of a sample of the seed stock. NIAB played a major role in establishing this system and still does. The Official Seed Testing Station (OSTS) has been located at NIAB since 1921, and has led the development of seed testing arrangements and methods around the world.





1919-2019

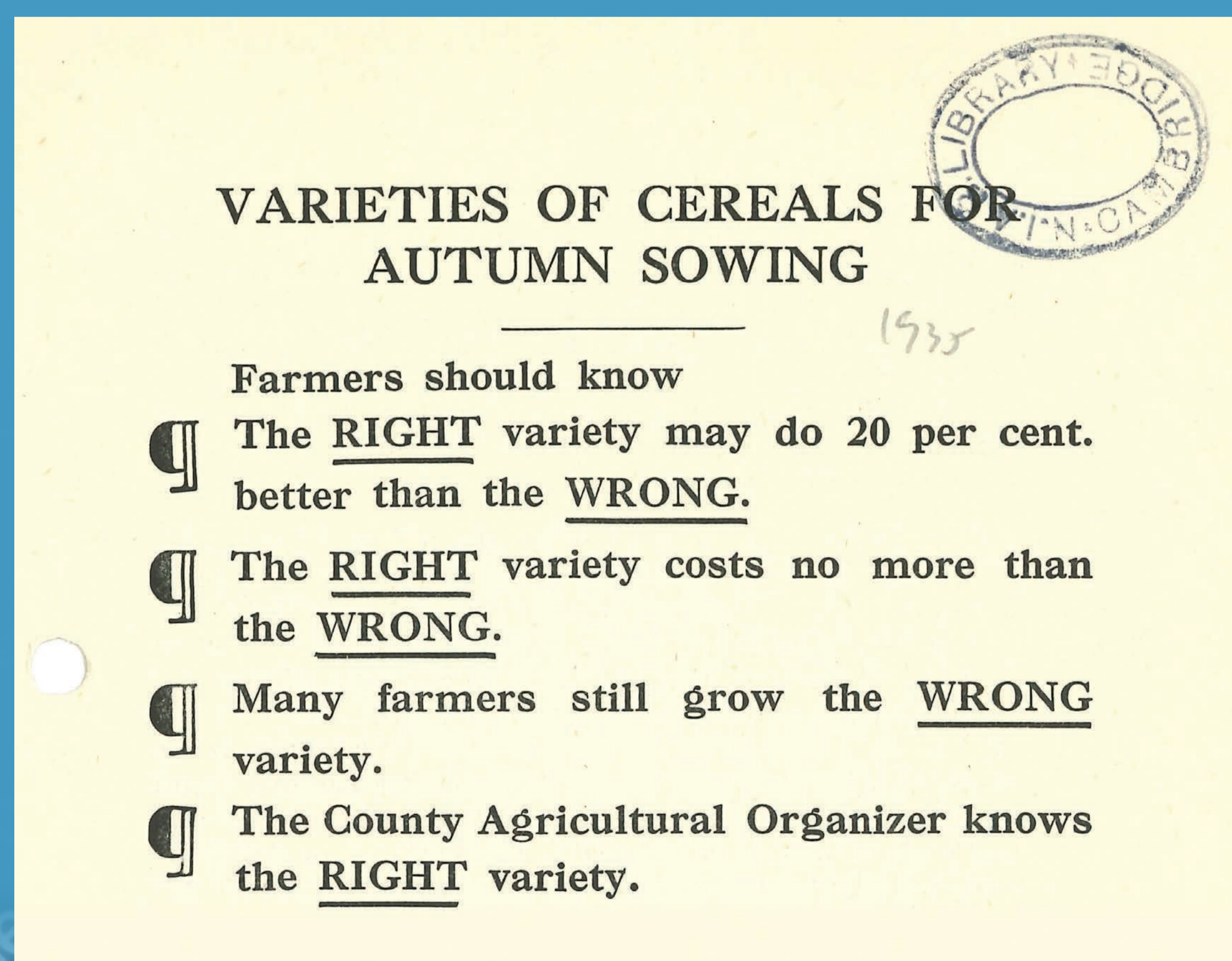


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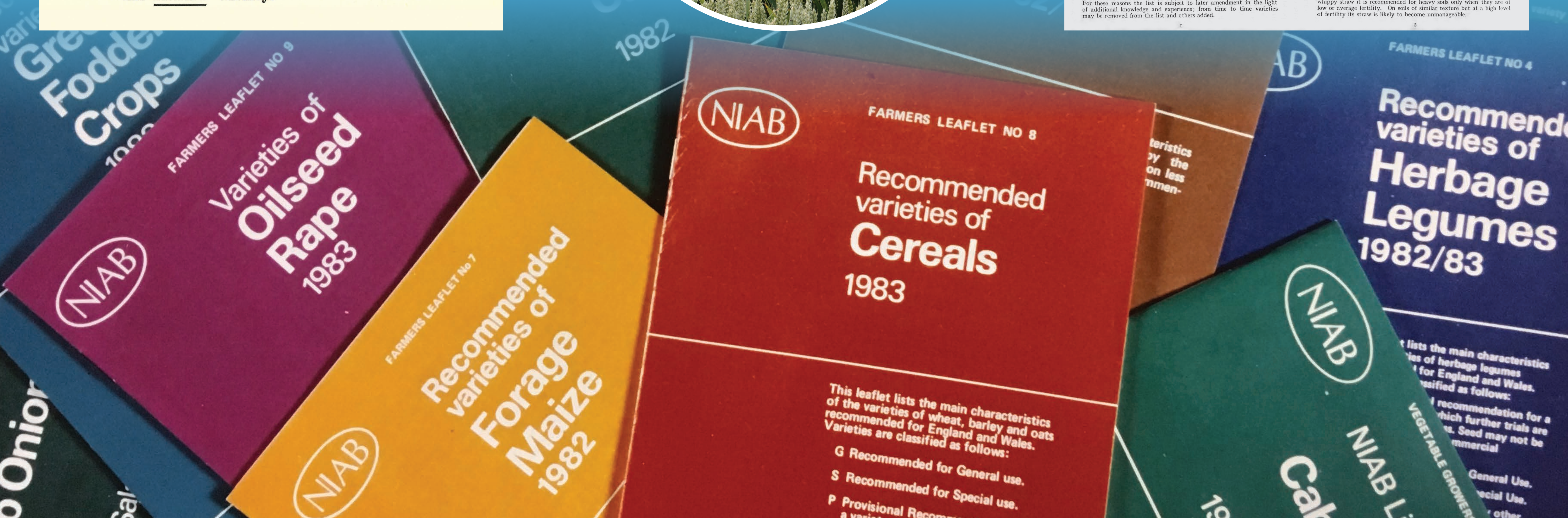
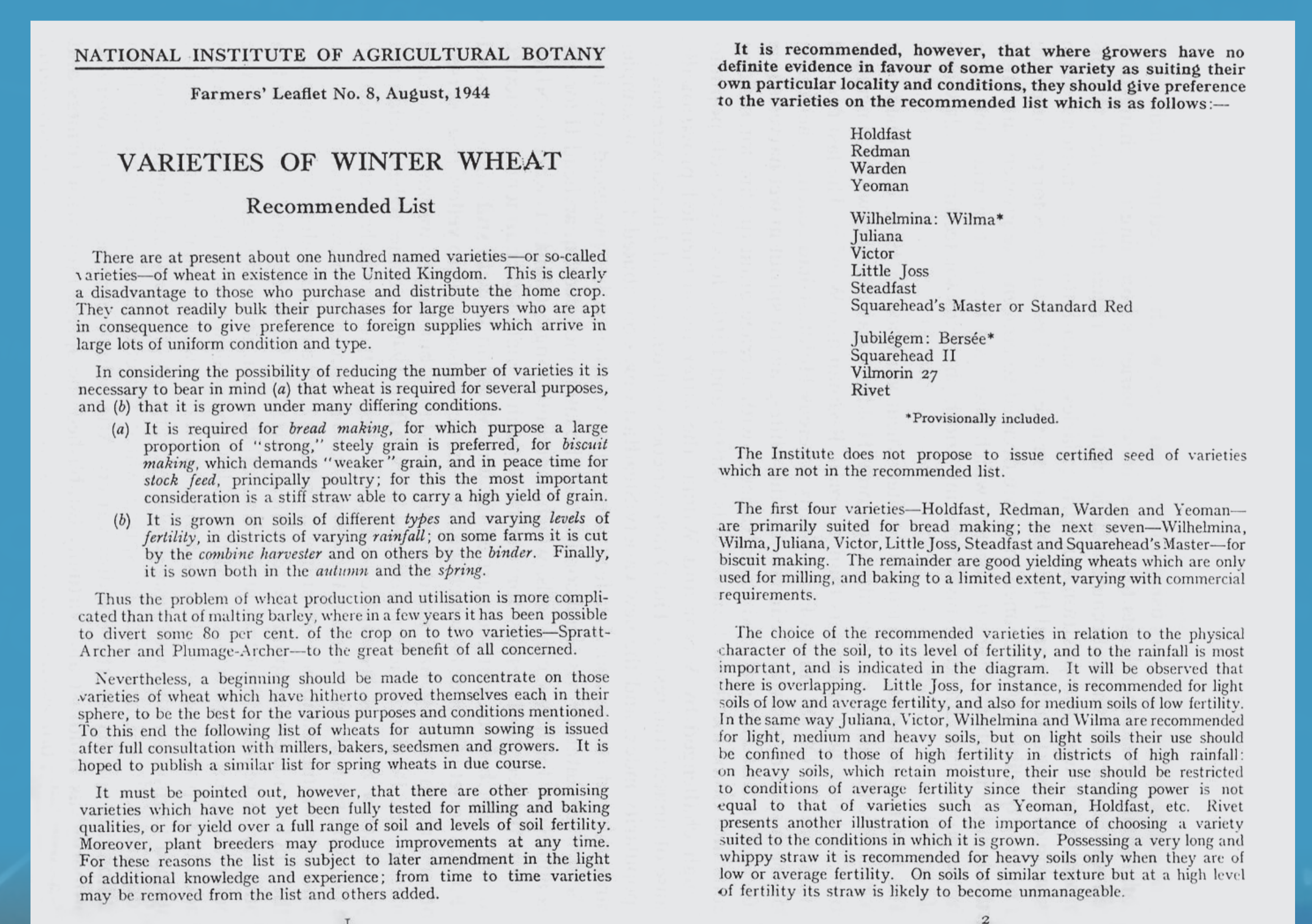
# VARIETY EVALUATION

As the first UK organisation to formally test and evaluate varieties for the benefit of farmers and growers NIAB developed the original Recommended Lists across a wide range of crops. Over the years, NIAB's crucial role in variety evaluation has improved the performance information available to farmers. It also supported the early development of the plant breeding industry and the associated regulatory frameworks for variety registration.

Extract from the 1935 Farmers' Leaflet, a precursor to the Recommended List



The first NIAB Recommended List for wheat was published in 1944. At the time there were still over 100 wheat 'varieties' being sold in the UK, many of them the same variety





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# PLANT BREEDING

NIAB has supported the science of modern plant breeding from its beginnings in the early 20th century. It is now a global leader in crop genetics research and plant breeding, from its groundbreaking resynthesised wheat, MAGIC populations and crop transformation, to its commercial success in soft fruit, including the strawberry variety Malling™ Centenary.

*"It is now possible to make a new plant possessing valuable economic qualities.....out of the fragments of another"*

AB Bruce, Board of Agriculture and Fisheries, 1917





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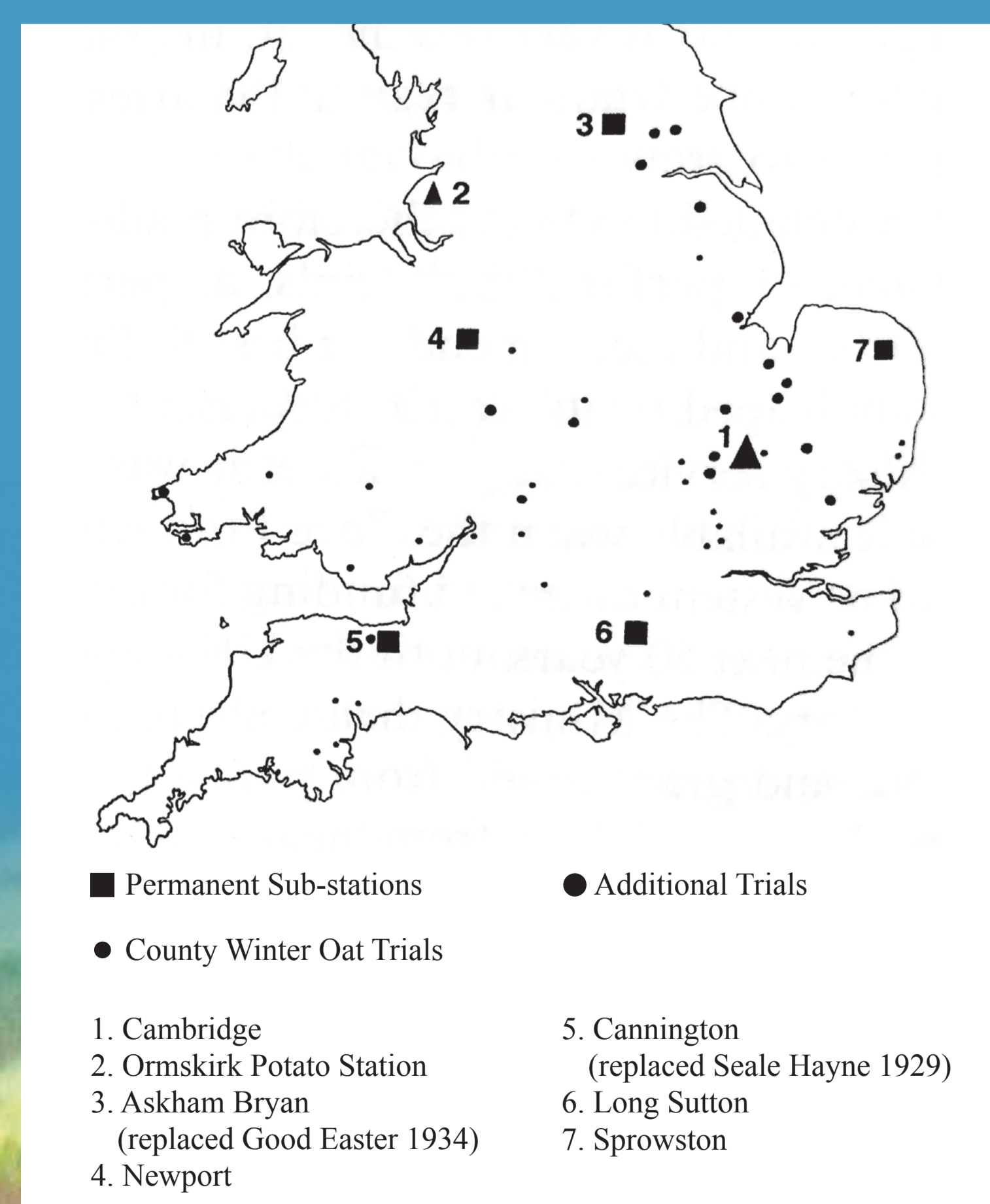
# TRIALLING

NIAB is the leading UK trials organisation with over 150,000 plots across 100 sites.

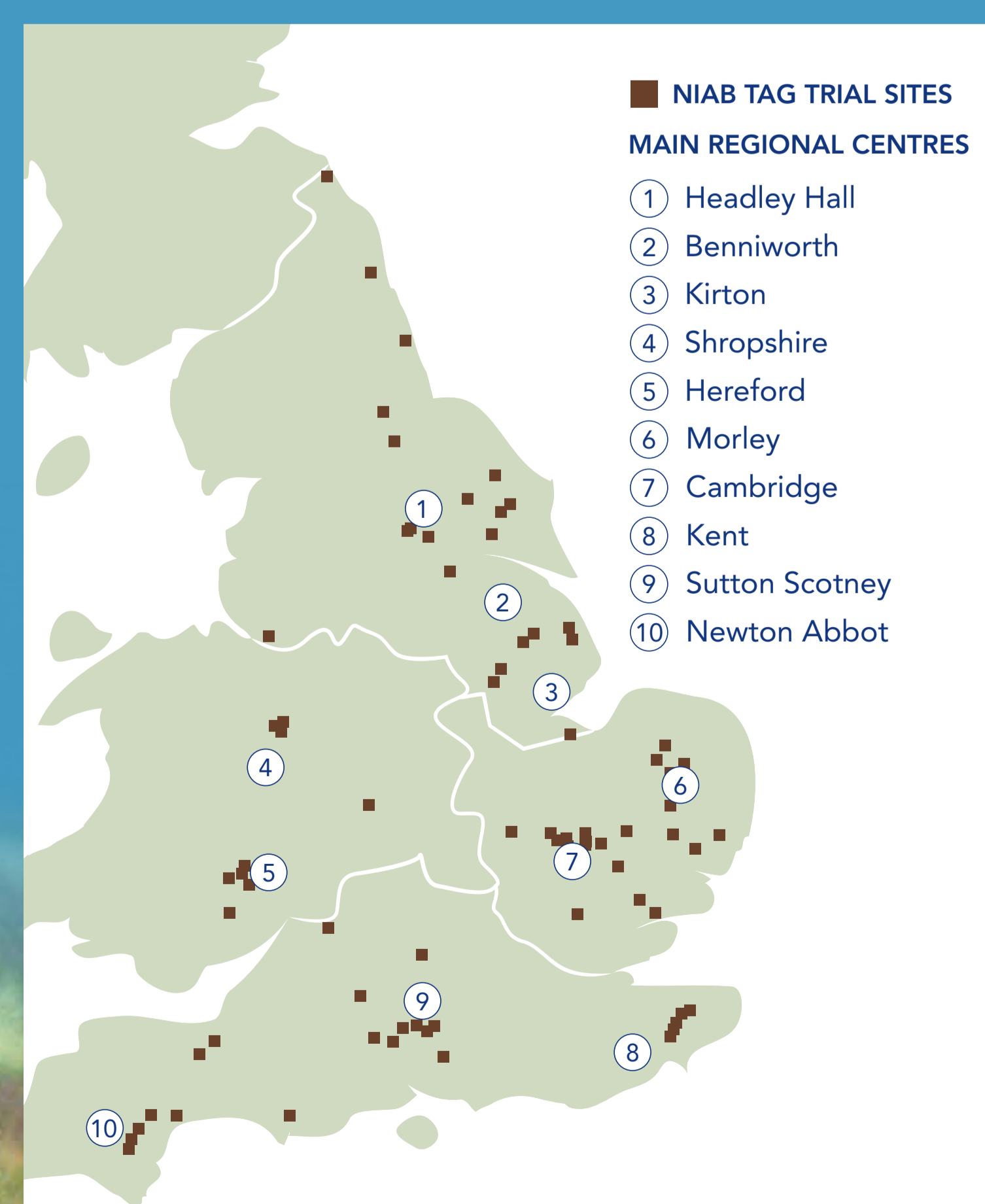
The delivery of successful field trials is one of the most crucial elements of NIAB's operations. It is achieved by dedicated teams located at ten field trial centres in the major agricultural areas of England and Wales, combining experience with local knowledge to manage a wide range of crops.

Today, NIAB's field trials programme is large and complex, across more than 50 different crop species, covering all major and minor combinable crops, root crops, livestock feeds, vegetable and salad crops, and top and soft fruit.

NIAB trial centres, 1935



NIAB trial centres, 2019





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# FIGHTING YELLOW RUST

NIAB has been instrumental in identifying and monitoring new races of yellow rust for over 50 years, providing an early warning system to growers and plant breeders of variety resistance breakdown.

The establishment of the UKCPVS, managed by NIAB, followed the dramatic breakdown of yellow rust resistance of the popular wheat variety Rothwell Perdix in the late 1960s.

NIAB works with AHDB, plant breeding companies and other research organisations to assess the threat that each new race poses to commercial varieties. This includes international collaborations, linking up with the Global Rust Reference Centre in Denmark.

