

Research services for crop field tests

Luke provides a variety of research-driven services for field crop production and related questions. Luke coordinates the official VCU trials (variety cultivation and use tests) to determine the suitability of the variety for Finnish growing conditions. VCU trials provide accurate information on the crop characteristics, yield, disease resistance and quality of yield of the variety. On the basis of the results of the VCU trials, the Plant Variety Board decides on the acceptance of the variety for the national variety list.

Customer benefits

We help our clients to develop diverse, sustainable and resource-efficient production systems. Our research addresses biological, technological, financial and ecological perspectives in field crop production. In addition, our research activities intersect with various themes related to climate change mitigation and prevention, as well as risk management. We help our clients to produce reliable results and different, optional solutions for various questions related to field crop production.

Services

The starting point for our range of services is always the client's needs. We identify client needs together and customise services according to each client's requests. Services may range from a separate field or laboratory test to a large-scale series of tests conducted in different locations. If necessary, we conduct tests on fields owned by our clients or their partners.



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Examples of our services:

- Planning and implementation of field and greenhouse tests
- Statistical analysis of research results and interpreting them for the client
- Expert estimates and literature reviews

Application areas

- The impact of fertilisation on harvest levels and nutrient intake
- A range of methods for soil improvement, nutrient management and carbon sequestration
- The testing of older native varieties, such as spelt and native barley, according to client needs

The range of varieties tested is broad. In addition to conventional species (such as cereals, grasses, oil crops, peas and broad beans), we test different special crops, such as caraway, buckwheat and woad. We also help our clients to further process and productise crops.

Why Luke?

Luke has extensive experience in research and testing of field crops. Our research and our skilled technical professionals provide our clients with access to the most recent information. We know the special characteristics and challenges of farming conditions in the north, as well as their impact on agriculture. Our continuously developed infrastructure with a high geographic coverage enables testing in different conditions.

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