Virallisten lajikekokeiden tulokset 2005-2012
Results of official variety trials 2005-2012

Arjo Kangas, Merja Högnäsbacka, Marja Kujala, Antti Laine, Markku Niskanen, Lauri Jauhiainen ja Hannele Nikander
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Tiivistelmä

Virallisia lajikekokeita tehdään uusien kasvilajikkeiden viljelyarvon arvioimiseksi. Tiedot kasvilajikkeiden satoisuudesta, viljelyominaisuuksista ja sadon laadusta auttavat viljelijöitä ja pellon tuotteiden jalostajia valitsemaan oikeat lajikkeet käyttöönsä. Myös kasvilajikeluetteloon otettavat lajikkeet päätetään virallisten lajikekokeiden tulosten perusteella.


Lajikekokeiden tulokset esitetään kahdeksan vuoden yhdistelminä. Tulokset analysoidaan käyttäen lineaarisia sekamalleja.

Avainsanat:
lajikkeet, leipävilja, rehuvilja, palkokasvit, öljykasvit, nurmikasvit, peruna,
Sisällysluettelo

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Viralliset lajikekokeet


Kokeissa selvitetään uusien lajikkeiden viljelyarvoa, viljelyvarmuutta, satoisuutta ja laatuja. Lajikkeen omistaja ilmoittaa lajikkeen kokeisiin. Lajike on virallisissa kokeissa yleensä kaksois vuotta tai kunnes se hyväksytään kasvilajikeluetteloon. Tämän jälkeen lajikkeen omistaja voi vielä halutessaan ilmoittaa lajikkeen lisäkokeisiin.


Vehnien koeleivonnat tehdään Eviran Viljelaboratoriossa.


Kasvilajikeluetteloon otettavat lajikkeet päätetään virallisten lajikekokeiden tulosten perusteella. Lajikeluettelostaa päätää Eviran Kasvilajikelautakunta.

1 Official variety trials

Official variety trials are conducted by MTT Agrifood Research Finland to determine the value of new field crop varieties (Ministry of Agriculture and Forestry, Decree 51/2004). The variety trials are performed in accordance with a quality system.

The value, cultivation stability, yield potential and quality of new varieties are evaluated in official variety trials. The proprietor of the variety enters the variety for the trials. The variety undergoes official trials usually for 2 years or until it is entered in the National List of Cultivars.

The trials take place in areas suitable for the cultivation of the crop in question. Variety trials are field trials that simulate practical cultivation. Trials were conducted at 11 trial sites in 2012 (Figure 1). They have also been conducted by ProAgria Nylands Svenska Lantbrukssällskap (a regional agricultural advisory organisation located in the South of Finland), Boreal Plant Breeding Ltd and the Experimental Farm of the K Group. The sugar beet trials are carried out by the Sugar Beet Research Centre.

The baking tests of wheat are made in the Grain laboratory of the Finnish Food Safety Authority Evira.

Information about Scandinavian turf grass variety trials is available at www.scanturf.org.

Decisions on the inclusion of varieties in the National List of Cultivars are based on the results of the official variety trials. The decisions are made by the Plant Variety Board of the Finnish Food Safety Authority Evira.
2 Koetulosten tulkinta

2.1 Yleistä


Tulokset on analysoitu käyttäen lineaarisia sekamalleja (suoravertailu). Tällöin kaikkia lajikkeita voidaan verrata suoraan toisiinsa, sillä malli käyttää koko aineiston hyödykseen yhdeksällä kertaa.

Satotulokset on esitetty yhteenvedoissa viljelyvöhykkeen, maalajin, koevuoden ja satotason mukaan ryhmitellyinä. Nurmikasvien satotulokset on lisäksi laskettu nurmen iän mukaan eritellyinä.

Viljojen, öljykasvien ja palkoviljojen lajikkeet ovat tuloksissa kasvuajan mukaisella kasvujen mukaisessa järjestyksessä. Leivontatalutulokset ovat juhlosaannon mukaisessa järjestyksessä. Perunalajikkeet on järjestetty tärkkelyyspyhitteisyydellä ja rehunurmilajikkeet kokonaisadon mukaan.


Lajikkeiden viihtyvyyttä voi tarkastella maalajin mukaan ryhmitellyistä tuloksista. Ohra-lajikkeilla on eri maalajien kokeiden lisäksi vuosittain happamuudensietokoe, jossa maan pH on erityisen alhainen.

2 Evaluation of trial results

2.1 General

This annual bulletin presents the results of the official variety trials for 2005-2012. The baking quality results of wheat cover the years 2005-2011.

The results were analysed using linear mixed models, which use all available data in the same analysis. In the results all varieties can be compared directly with each other.

The summaries also give yields by cultivation zone, soil, trial year and yield level. The yields of grasses were calculated by the age of the lay. The number of trial results is given only for yields.

The varieties of cereals, oilseeds and pulses are sorted by growing time. The baking quality results are sorted by flour yield. The potato varieties are sorted by starch content. Total yield is used as the sorting factor for feed grass varieties.

The yields of rye are given separately for three regions: Southern Finland, Western Finland and Inner Finland. Piikkiö, Inko and Pernaja (and also Mietoinen from previous years) are included in Southern Finland. Jokioinen and Ylistaro are included in Western Finland. All the other trial sites are in Inner Finland.

The adaptability of varieties can be evaluated from the results classified by soil type and yield level. For barley the tolerance of acidic soils is tested in separate trials.
The experimental design at each site was a strip-plot design.

The data were analysed using the mixed model approach, in which the variety is assumed to be fixed effects and the trial and block to be normally distributed random effects. Interaction effects involving at least one random effect are also defined as random.

Detailed instructions on reading the tables are given in the following.

Trials (no) shows the number of trials in which the variety was included.

Yield (kg/ha) is the estimated mean yield of the variety in average environmental conditions. Grain yields are calculated at 15% and oilseed yields at 9% moisture content.

Rel. is the average yield of the variety relative to the yield of the control variety.

2.2 Cereals, pulses and oilseeds

Winter damage (%) is the average proportion of winter damaged stand, 100 = total loss.

Lodging (%) is the average degree of lodging in the stand, 100 = completely lodged.

Growing time (days) is the time from sowing to yellow ripening.
Tehoisa lämpösumma (astepäivää) saadaan, kun lasketaan yhteen kasvukauden vuorokausi- en keskilämpötilat, joista on vähennetty kyn- nysarvo viisi astetta (+5 °C).

Korkeus (cm) kertoo kasvuston keskimääräisen korkeuden.

1000 jyvän paino (g) on 1 000 siemenen paino.

Hehtolitrapaino (kg) on sadon tilavuuspaino.

Valkuaispitoisuus (%) kertoo, paljonko sadon kuiva-aineessa on valkuaisia.

Kuori (%) kuvaa kauran kuoren osuutta sadosta.

Sakoluku 1 on sakoluku normaalina viljankor- juuaikana.

Sakoluku 3 on sakoluku 2-4 viikkoa normaalistaa korjuuajankohdasta.

Valkuaiassato (kg/ha) kertoo valkuaisen määrän kuiva-aineessa.

Öljypitoisuus (%) kertoo, sadon öljypitoisuuden. (9 % kosteudessa).

Öljysato (kg/ha) on öljysadon määrä kuiva-ainesadossa.

Lehtivihreäpitoisuus (ppm) kertoo, paljonko siemenen öljy sisältää lehtivihreää milligrammoina kilossa.

Keitto 60 min (%) kuvaat pehmenneiden herneiden osuutta, kun niitä on keitetty tunti.

Growing degree days (dd) are calculated from sowing to yellow ripening. +5°C is used as the threshold value.

Length (cm) is the average length of the stand.

1000-seed weight (g) is the weight of 1000 seeds of the yield.

Hectolitre weight (Hl-weight, kg) is the weight of 100 litres of the yield.

Protein content (%) is the protein content of the yield as a percentage of dry matter.

Husk (%) is the proportion of oat husk in the yield.

Falling number 1 is the falling number at the normal cereal harvesting time.

Falling number 3 is the falling number 2-4 weeks after the normal harvesting time.

Protein yield (kg/ha) is the amount of protein in the dry matter.

Oil content (%) is the oil content of the yield (9 % moisture).

Oil yield (kg/ha) is the amount of the oil yield of the dry matter.

Chlorophyll content (ppm) is the chlorophyll content (mg/kg) in the seed oil.

Cooking 60 min is the (%) percentage of soft peas after one hour of cooking.
2.3 Vehnän leivontalaatu

Jauhosaanto (%) ilmaisee jauhon määrän jauhetusta jyvämisääristä.

Sakoluku (s) esitetään jauhon sakolukuna.

Valkuais-% esitetään valkuaispitoisuutena jauhon kuiva-aineesta.

Kostea sitko (%) on kostean sitkon määrä jauhosta.

Zeleny-luku on mittalasissa isopropylalkoholin ja maitohapon seoksessa sekoitetun jauhon liettyneen sitkopatsaan korkeus.

Vedensidonta (%) on vesimäärä jauhon (kosteus 14 %) painosta. Tämä vesimäärä tarvitaan valmistettaessa jauhosta määrittynä kiinteysen omaavaa taikkea.

Valorimetriluku ilmaisee taikinan muodostumisajan, sekoituskestävyyden ja pehmenemisen. Se määritetään erityisellä mita-asteikolla farinogrammista.

Ekstensogrammin pituus (mm) eli taikinan venyvyys on ekstensografin piirämän käyrän pituus, kun taikinia venytetään katkeamiseen asti.

Ekstensogrammin korkeus (FU) eli taikinan venytysvastus on ekstensografin piirämän käyrän korkeus, kun taikinia venytetään katkeamiseen asti.

Leipätillavuus (ml) on koeleivonnalla paistetun vuokaleivän tilavuus.

Huokoisuus (1–8) ilmoitetaan koeleivästä leikatun leipäpuhaleen huokosten kokona Dallmannin Porentabelle -asteikolla. Kun huokosten koko on suuri ja epätasainen arvosana on 1, ja kun huokoset ovat pieniä ja tasaisia arvosana on 8.

2.3 Baking quality of wheat

Flour yield (%) presents the flour amount of the milled grain amount.

Falling number (s) presents the falling number of the flour.

Protein content % presents protein content on dry matter basis.

Wet gluten (%) is the amount of wet gluten from flour amount.

Zeleny number is the height of flour gluten pole after shaken in glass isopropyl alcohol and milk acid.

Water absorption (%) is the amount of water of flour weight (moisture 14 %). This water amount is needed to get certain consistency of dough.

Valorimeter value is quality score based on dough development time and tolerance to mixing. It is measured with special measure template from farinogram.

Ekstensograp length (mm) or extensibility of the dough is the length of curve drawn by ekstensograf, when dough is stretched until breaked.

Ekstensograp height (FU) or resistance of dough, the height of curve which ekstensograf draw when dough is stretched until breaked.

Loaf volume (ml) is the volume of the experiment bread baked in the pan.

Grumb structure (1-8) the volume of the spores of cut from the experiment bread. Dallmanns Porentabelle –scale is used. When the pores are big and uneven the value is 1, and when the pores are small an even the value is 8.
**Kimmoisuus (0–10)** ilmasee leivän sisuksesta leikatun kuution palautuminen jälkeen senttimetreinä asteikolla 0 (=2 cm) – 10 (=5 cm).

**Arvoluku** on (tilavuustekijä x huokoisuustekijä):100. Taulukon avulla muutetaan leivän tilavuus ja huokoisuus tilavuus- ja huokoisuusteiköksi

**Grumb resilience (0-10)** is the end height after pressed loaf cubic, the centimetre scale is 0 (=2 cm) – 10 (=5 cm).

**Quality number** is (loaf volume value x grumb structure value):100. With the table loaf volume and grumb structure are turned to score point values.

### 2.4 Peruna

**Tärkkelys (%)** ilmoittaa perunan tärkkelyspitoisuuden.

**Kauppakelpoinen sato (%)** on ulkoisen laadun arvostelussa luokkaan terteet sijoitettujen 35–70-millimetristen perunoiden sato. Ulkoisen laadun vaatimukset vastaavat lähinnä ruokaperuna-asetuksen erikoisluokan perunan laatuvastimksi.

**Myöhäisyys (1–9)** on arvion kokeissa kolmas viisi 15. elokuuta alkaen 10 vuorokauden välein. Tässä tiedotteessa on esitetty kolmannen havaintokerran tulokset. 9 on täysin tulehtunut.

**Maturity (1–9).** 9 = fully mature. In the trials, lateness was evaluated three times at intervals of 10 days starting on 15 August. The results of the third observation are given in this bulletin.

### 2.4 Potato

**Starch (%)** is the starch content of potato.

** Marketable yield (%)** is the yield classified in the external quality evaluation as healthy, size class 35–70 mm. The requirements for external quality correspond mainly to those of the special class in the Finnish Potato Decree.

### Tuber properties and appearance

**Smoothness of skin (1–9).** 9 = best appearance, 1 = skin spoiled.

**Roundness of tuber (1–9).** 9 = round, 1 = elongated.

**Flatness of tuber (1–9).** 9 = round in cross section, 1 = flat in cross section.

**Shallowness of eyes (1–9).** 9 = smooth tuber, 1 = very deep eyes and/or knobby tuber.

**Uniformity of tuber shape (1–9).** 9 = very regular, least variable 1 = very variable

**Mukulan ominaisuudet ja ulkonäkö**

**Ulkonäkö kuorineen (1–9).** 9 tarkoittaa parasta ulkonäköä, 1 on kuori pilalla.

**Mukulan pyöreys (1–9).** 9 on pyöreä mukula, 1 on pitkänomainen mukula.

**Mukulan litteys (1–9).** 9 on poikkileikkauseltaan pyöreä mukula, 1 on poikkileikkauseltaan litteä mukula.

**Mukulan sileys (1–9).** 9 on sileä mukula, 1 on hyvin syväsilmainen ja/tai pyöreä mukula

**Mukulamuodon säännöllisyys (1–9).** 9 tarkoittaa säännöllistä mukulamuotoa, vähiten vaihtelevaa, 1 tarkoittaa hyvin vaihtelevaa mukulamuotoa
External appearance

The evaluation of the external appearance is based on the proportion of tubers damaged in different ways, expressed as the percentage by weight in the following groups according to the type of damage:

Healthy tubers (%). Tubers without injuries or defects causing rejection.

Common scab (%). Over 10% of tuber surface.

Tuber blight (%).

Other fungal disease (%).

Bacterial disease (%).

Mechanical damage (%). Skin damage which is not removed by normal peeling.

Internal bruising (%). Internal bruising which is not removed by normal peeling.

Harvest crack (%). Injury which cannot be removed by normal peeling.

Growth crack (%). Injury which cannot be removed by normal peeling.

Hollow heart (%). Hollow and dark heart.

Deformations (%). Deviation from the shape typical of the variety which causes difficulty in mechanical peeling; correction by cutting causes a loss of over 25%.

Discoloration (%). Discoloration of flesh which is not due to a mechanical reason. Injuries caused by mop top virus are included in this group.
Vihertyneet (%).

Muut viat (%). Perunan kauppakelpoisuus on vaikuttava vika, joka ei kuulu mihinkään edellä mainittuun ryhmään.

2.5 Rehunurmet

Sadot (kg/ha) ilmoitetaan kuiva-aineena.

Botaaninen analyysi (%) kertoo kokeiltavan kasvin osuuden sadosta. Määritys on huomioitu sadon määrästä, joka ilmoittaa koekasvin puhtaan sadon.

Röyhylle tai tähkälle tulo ja kukkimisen alkaminen (vrk) on päivä, jolloin viisi prosenttia kasveista kyseisessä kehitysvaiheessa. Kehitysvaihe ilmoitetaan vuorokausina toukokuun 1. päivästä lukien.

Kevätiheys (%) ilmoitetaan kasvin selvästi alettua, 100 tarkoittaa täystiheää.

Talvituho (%) 100 tarkoittaa täysin tuhoutunutta.

Nurmisadon laatu määritetään NIRS-teknikalla eli lähi-infrapuna-heijastusspektroskopialla.

D-arvo (%) Sulavan organisaanisen aineen osuus kuiva-aineesta.

NDF (%) Neutraalidetergentikuitu eli solunseinämäkuitu.

ADF (%) Happoon liukemenematon kuitu.

Ligniini (%) Ligniinipitoisuus.

Valkuaisato (kg/ha) NIRS-analyysin tyyppiarvon perusteella kertoimella 6,25 laskettu sadon valkuaispitoisuus on kerrottu sadolla.

Käyttökelpoinen sato (kg/ha). Sadon sulvan kuiva-aineen määrä hehtaria kohti.

Sun greening (%)

Other defects (%). A defect affecting the marketability of the potato not included in any of the above mentioned groups.

2.5 Grasses for feed and biofuel

Yields (kg/ha) are expressed as dry matter yields.

Botanical analysis (%). Percentage in yield of the species tested. The evaluation is included in the size of the yield which states the net yield of the tested species.

Coming into ear and start of blossoming (days) date when 5% of the individual plants have reached this stage of development. This stage of development is expressed in days as of 1 May.

Covering % (spring) (100 = full cover) is estimated when growth has clearly started.

Winter damage (%). 100 = total damage.

NIRS (near infrared spectroscopy) is used to determine the quality of grass.

D value (%) Digestible organic matter in the dry matter.

NDF (%) Neutral Detergent Fiber.

ADF (%) Acid Detergent Fiber.

Lignin (%). Lignin content.

Protein yield (kg/ha). Protein content based on NIRS analysis.

Digestible yield (kg/ha). Digestible organic matter in the dry matter yield.
2.6 Statistical significance

Significance levels show how likely a difference between test and control variety is due to chance. The levels used are:

- o = significant at 10% level
- * = significant at 5% level
- ** = significant at 1% level
- *** = significant at 0.1% level

2.7 Additional information

Other relevant information are available (in Finnish) at www.mtt.fi/lajikekokeet.

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Virallisten lajikekokeiden johtaja 1.9.2012

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6. MIKKELI
7. JOKIOINEN
8. PIIKKIÖ, KAARINA

Muut / Others
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   K-maatalouden koetila
   Experimental farm of K Group

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    Västankvarn
    Västankvarn School Farm

Kuva 1. Virallisten lajikekokeiden koepaikat ja vyöhykkeet.
Figure 1. Trial sites and zones of the official variety trials.
### Taulukko 1. Viljojen, palko- ja öljykasvien koepaikat 2012. S = Satokoe

*Table 1. Trial sites for cereals, pulses and oilseeds 2012. S = Standard trial.*

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### Taulukko 2. Perunan koepaikat 2012, S = Satokoe

*Table 2. Trial sites for potato 2012, S = Standard trial*

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<th>Vyöhyke – Zone</th>
<th>JOKIOINEN 1</th>
<th>JOKIOINEN 2</th>
<th>YLISTARO</th>
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### Table 3. Trial sites for feed grass 2012

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<th>YLJÄSTÖ</th>
<th>MAANINKA</th>
<th>SOTKAMO</th>
<th>RUUKKI</th>
<th>ROVANIEMI</th>
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*Samoissa kokeissa. – In common trails.

**Kylvetty 2012, Sowing year 2012
**Taulukko 4.** Lajikkeita, jotka ovat aikaisempien vuosien tuloksissa linjanumerolla.
*Table 4. Code numbers of varieties, which have been used in previous years results.*

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**herne – pea**

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**kevätrypsi – spring turnip rape**

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**kevätrapsci – spring rape**

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**timotei – timothy**

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**nurminata – meadow fescue**

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Syysruis, 2005-2012, Viralliset kokeet
Estimoidut lajikekeskiarvot, Estimated variety means

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<th>Suhde-luku trials</th>
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<th>Kasvuika pv trials</th>
<th>Lämpösumma kpl trials</th>
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<tr>
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<td>5 26,1 o</td>
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Syysruis, 2005-2012, Viralliset koeet
Estimoidut lajikekeskiarvot, Estimated variety means

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Winter rye, *Secale cereale* L., 2005-2012, Official variety trials: Classification according to soil types
Estimoidut lajikekeskiarvot, Estimated variety means

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### Winter rye, *Secale cereale* L., 2005-2012, Official variety trials: Classification according to zones

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# Winter wheat, *Triticum aestivum* L., 2005-2012, Official variety trials: Classification according to zones

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*Note: * and ** indicate significant differences.*
### Ruisvehnä, 2005-2012, Viralliset kokeet


Estimoidut lajikekeskiarvot, Estimated variety means

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Triticale, X Triticeosecale Wittmack, 2005-2012, Official variety trials: Classification according to zones
Estimoidut lajikekeskiarvot, Estimated variety means

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**Estimated variety means**

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*Note: C* indicates a comparison.
### Kevätvehnia, 2005-2012, Viralliset kokeet
### Spring wheat, Triticum aestivum L., 2005-2012, Official variety trials
### Estimoidut lajikekeskiarvot, Estimated variety means

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- Suhde rel.
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- Tähkimisen alk. kpl
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- Lämpösumma kpl
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### Spring wheat, *Triticum aestivum* L., 2005-2012, Official variety trials

**Kevätvehnä, 2005-2012, Viralliset kokeet**

**Spring wheat, *Triticum aestivum* L., 2005-2012, Official variety trials**

**Estimoidut lajikekeskiarvot, Estimated variety means**

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**Spring wheat, Triticum aestivum L., 2005-2012, Official variety trials: Classification according to year**

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### Variety trials

#### Spring wheat, *Triticum aestivum* L., 2005-2012, Official variety trials

**Estimoidut lajikekesiarvot, Estimated variety means**

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### Spring wheat, *Triticum aestivum* L., 2005-2012, Official variety trials

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Spring wheat, Triticum aestivum L., 2005-2012, Official variety trials: Classification according to zones

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### Official Variety Trials: Classification According to Average Yield Level of Trial

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**Spring wheat, Triticum aestivum L., 2005-2011, Official variety trials**  
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**Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials**

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Ohra, 2005-2012, Viralliset kokeet
Estimoidut lajikekeskiarvot, Estimated variety means
## Ohra, 2005-2012, Viralliset kokeet
### Barley, Hordeum vulgare L., 2005-2012, Official variety trials
#### Estimoidut lajikekeskiarvot, Estimated variety means

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Estimoidut lajikekeskiarvot, Estimated variety means

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### Ohra, 2005-2012, Viralliset kokeet

**Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials**

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Ohra, 2005-2012, Viralliset kokeet
Estimoidut lajikekeskiarvot, Estimated variety means
### Ohra, 2005-2012, Viralliset kokeet


Estimoidut lajikekeskiarvot, Estimated variety means

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Ohra, 2005-2012, Viralliset kokeet  
Estimoidut lajikekeskiarvot, Estimated variety means

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### Ohra, 2005-2012, Viralliset kokeet

**Barley, Hordeum vulgare L., 2005-2012, Official variety trials**

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### Ohra, 2005-2012, Viralliset kokeet

**Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials**

Estimoidut lajikekeskiarvot, Estimated variety means

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## Ohra, 2005-2012, Viralliset kokeet

**Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials**

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Ohra, 2005-2012, Viralliset kokeet
Estimoidut lajikekeskiarvot, Estimated variety means

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### Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to zones

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Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to zones
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Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to zones

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**Estimated variety means**

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Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to zones

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Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to zones

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Ohra, 2005-2012, Viralliset kokeet: Luokittelu vyöhykkeittäin
Barley, Hordeum vulgare L., 2005-2012, Official variety trials: Classification according to zones

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### Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to zones

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Ohra, 2005-2012, Viralliset kokeet: Luokittelu vuosittain
Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to year
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Estimoidut lajikekeskiarvot, Estimated variety means

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Ohra, 2005-2012, Viralliset kokeet: Luokittelu vuosittain
Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to year
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Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to year

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**Notes:**
- "kpl" stands for "kilograms per hectare".
- "rel." stands for "relative to the average".
- "***" indicates a highly significant difference.
- "**" indicates a significant difference.
- "*" indicates a slightly significant difference.
- "C" indicates a change in variance.
### Ohra, 2005-2012, Viralliset kokeet: Luokittelu vuosittain

**Barley, Hordeum vulgare L., 2005-2012, Official variety trials: Classification according to year**

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### Ohra, 2005-2012, Viralliset kokeet: Luokittelu vuosittain

**Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to year**

Estimoidut lajikekeskiarvot, Estimated variety means

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Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to soil types  
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Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to soil types
Estimoidut lajikekeskiarvot, Estimated variety means

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### Official variety trials: Classification according to soil types

**Estimoidut lajikekeskiarvot**, Estimated variety means

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#### Variety trials

- **VILDE** 6 r =C 18 5783 100 25 5129 100 9 5677 100 5 4208 100
- **POSADA** 2 r 3 5838 101 19 5534 108** 3 2327 55***
- **SW 57065** 2 r 2 5595 97 4 5032 98 1 2473 59**
- **OVERTURE (NSL07-8120A)** 2 r 3 6413 111** 10 5592 109** 2 2647 63***
- **PROPINO** 2 r 2 6341 110* 16 5372 105* 3 2702 64***
- **KWS IRINA** 2 r 2 6331 109o 4 5524 108o 1 3389 81
- **TREKKER** 2 r 3 6559 113*** 10 5724 112*** 2 2778 66***
- **CROPTON** 2 r 2 6280 109o 12 5419 106* 2 2601 62***
- **GILDER** 2 r 3 6062 105 10 5486 107* 2 2369 56***
- **SYN 409-221** 2 r 3 6309 109* 10 5544 108** 2 2667 63***
- **PUBLICAN** 2 r 2 6161 107 20 5274 103 3 3178 76**
- **QUENCH** 2 r 2 6680 116*** 20 5423 106* 3 2279 54***
- **NFC TIPPLE** 2 r 6 5643 98 27 5409 105** 1 4157 73* 4 2416 57***
- **SCRABBLE** 2 r 2 6184 107 12 5610 109*** 2 2177 52***
- **SYN 408-197** 2 r 3 6677 115*** 10 5934 116*** 2 2553 61***
- **SHANDY** 2 r 2 6409 111* 4 5708 111** 1 2803 67**
- **SHUFFLE** 2 r 2 6763 117*** 4 5543 108* 1 2474 59**
- **KWS 09_410** 2 r 2 6635 115** 4 5586 109* 1 3120 74*

**Ohra, 2005-2012, Viralliset kokeet: Luokittelut maalajeittain**

*Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to soil types*

*Estimoidut lajikekeskiarvot, Estimated variety means*
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Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to average yield level of trial

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Estimoidut lajikekeskiarvot, Estimated variety means

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## Official Variety Trials: Classification according to Average Yield Level of Trial

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Suhteet eivät ole integroidu taulukossa täsmällisesti.
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Barley, *Hordeum vulgare* L., 2005-2012, Official variety trials: Classification according to average yield level of trial

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### Kaura, 2005-2012, Viralliset kokeet

**Oats, *Avena sativa* L., 2005-2012, Official variety trials**

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**Note:** Values in italics indicate significant differences.
### Oats, *Avena sativa* L., 2005-2012, Official variety trials

Estimodut lajikekeskiarvot, Estimated variety means

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### Kaura, 2005-2012, Viralliset kokeet

*Oats, Avena sativa L., 2005-2012, Official variety trials*

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Oats, *Avena sativa* L., 2005-2012, Official variety trials: Classification according to zones  
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Kaura, 2005-2012, Viralliset kokeet: Luokittelu vyöhykkeittäin

Oats, *Avena sativa* L., 2005-2012, Official variety trials: Classification according to zones

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Oats, Avena sativa L., 2005-2012, Official variety trials: Classification according to zones
Estimoidut lajikekeskiarvot, Estimated variety means

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Kaura, 2005-2012, Viralliset kokeet: Luokittelut maalajeittain
Oats, *Avena sativa* L., 2005-2012, Official variety trials: Classification according to soil types

Estimoidut lajikekeskiarvot, Estimated variety means

| Variety     | trials | Lajike  | Karkeat kiv. maat kg/ha | Suhde- suhde- Suhde- Suhde- Liejusavi Suhde- Suhde- | kg/ha | kg/ha | kg/ha | kpl kg/ha | kg/ha | kg/ha | kg/ha |
|-------------|--------|---------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| BELINDA     | =C     | 13      | 6328                     | 100       | 33        | 6201       | 100       | 13        | 6636       | 100       | 6         | 6404      | 100       |           |           |
| STEINAR     | 3      | 5985    | 95                       | 13        | 6116      | 99         | 9         | 6835      | 103       | 4         | 6622      | 103       |           |           |
| BOR 07036   | 6      | 6553    | 104                      | 4         | 5863      | 95*        | 2         | 6754      | 102       | 2         | 6583      | 103       |           |           |
| VIVIANA     | 2      | 5934    | 94                       | 17        | 6212      | 100        | 8         | 6921      | 104       | 4         | 6487      | 101       |           |           |
| MIRELLA     | 4      | 6203    | 98                       | 10        | 6072      | 98         | 5         | 6727      | 101       | 1         | 6327      | 99        |           |           |
| SKARNES     | 3      | 6271    | 99                       | 1         | 6144      | 99         | 2         | 6338      | 96        |           |           |           |           |           |           |
| FLOCKE      | 4      | 6667    | 105                      | 6         | 6024      | 97         | 3         | 6342      | 96        | 3         | 6135      | 96        |           |           |
| SW INGEBORG | 3      | 6188    | 98                       | 9         | 5968      | 96*        | 5         | 6510      | 98        | 3         | 6173      | 96        |           |           |
| NORD 10/316 | 3      | 6840    | 108 o                    | 1         | 6582      | 106        | 1         | 7517      | 113 o     | 1         | 7006      | 109       |           |           |
| BETTINA     | 4      | 6086    | 96                       | 14        | 6274      | 101        | 7         | 6636      | 100       | 3         | 6835      | 107 o     |           |           |
| IIRIS       | 3      | 6108    | 97                       | 10        | 6034      | 97 o       | 6         | 6599      | 99        | 3         | 6275      | 98        |           |           |
| NORD 09/128 | 7      | 6838    | 108*                     | 8         | 6302      | 102        | 4         | 6913      | 104       | 3         | 6810      | 106       |           |           |
| CHARLY      | 4      | 6675    | 105                      | 6         | 6061      | 98         | 3         | 6368      | 96        | 3         | 6420      | 100       |           |           |
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Kaura, 2005-2012, Viralliset kokeet: Luokittelu maalajeittain
Oats, *Avena sativa* L., 2005-2012, Official variety trials: Classification according to soil types

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**Oats, *Avena sativa* L., 2005-2012, Official variety trials: Classification according to year**

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## Kaura, 2005-2012, Viralliset kokeet: Luokittelu satotason mukaan
Oats, *Avena sativa* L., 2005-2012, Official variety trials: Classification according to average yield level of trial

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Kaura, 2005-2012, Viralliset kokeet: Luokittelu satotason mukaan
Oats, *Avena sativa* L., 2005-2012, Official variety trials: Classification according to average yield level of trial
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### Official variety trials: Classification according to average yield level of trial

#### Estimated variety means

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### Herne, 2005-2012, Viralliset kokeet

**Pea, Pisum sativum L., 2005-2012, Official variety trials**

Estimoidut lajikekeskiarvot, Estimated variety means

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### Herne, 2005-2012, Viralliset kokeet

**Pea, *Pisum sativum* L., 2005-2012, Official variety trials**

**Estimoidut lajikekeskiarvot, Estimated variety means**

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Pea, *Pisum sativum* L., 2005-2012, Official variety trials: Classification according to year
Estimoidut lajikekeskiarvot, Estimated variety means

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### Spring turnip rape, *Brassica rapa* L. v. oleifera subv. annua, 2005-2012, Official variety trials

#### Estimoidut lajikekeskiarvot, Estimated variety means

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### Spring turnip rape, Brassica rapa L. v. oleifera subv. annua, 2005-2012, Official variety trials: Classification according to year

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**Spring rape, Brassica napus L. v. oleifera subv. annua, 2005-2012, Official variety trials**

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Camelina, 2005-2012, Viralliset kokeet
Camelina, Camelina sativa L., 2005-2012, Official variety trials
Estimoidut lajikekeskiarvot, Estimated variety means

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Camelina, 2005-2012, Viralliset kokeet
Camelina, Camelina sativa L., 2005-2012, Official variety trials
Estimoidut lajikekeskiarvot, Estimated variety means

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<th>Prot.yield</th>
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<th>Oil yield kg/ha</th>
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### Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 1st lifting

#### Estimoidut lajikekeskiarvot, Estimated variety means

<table>
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<th>Yield trials</th>
<th>Sato tn/ha</th>
<th>Sato-ero</th>
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### Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 1st lifting

#### Lajittelu %

<table>
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<tr>
<th>Variety</th>
<th>Size distribution</th>
<th>Lajittelu %</th>
<th>70 - 50 kpl</th>
<th>50 - 30 kpl</th>
<th>&lt; 30 mm kpl</th>
<th>Mean tuber size (estimated)</th>
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### Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 1st lifting

**Estimated variety means**

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<thead>
<tr>
<th>Variety</th>
<th>kpl trials</th>
<th>Terveet tubers %</th>
<th>kpl trials</th>
<th>Rupi %</th>
<th>kpl trials</th>
<th>Mek. pinta %</th>
<th>kpl trials</th>
<th>Korkk. halk. %</th>
<th>kpl trials</th>
<th>Ontot %</th>
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<th>Muut viat paino-%</th>
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### Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 2nd lifting

**Estimated variety means**

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<th>Sato tn/ha</th>
<th>Sato erro</th>
<th>Suhde-luku rel.</th>
<th>Tärkk. trials Starch %</th>
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### Early potato, Solanum tuberosum L., 2005-2012, Official variety trials, 2nd lifting

**Estimoidut lajikekeskiarvot, Estimated variety means**

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### Kasvuston Muodon säännöll.

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Varhaisperuna, 2005-2012, Viralliset kokeet, 2. nosto
Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 2nd lifting
Estimoidut lajikekeskiarvot, Estimated variety means

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<th>Variety</th>
<th>trials</th>
<th>Skin cooked</th>
<th>Rikkikiehuminen</th>
<th>trials</th>
<th>Slouthing</th>
<th>Flavour</th>
<th>trials</th>
<th>Discolor. cooked</th>
<th>trials</th>
<th>Discolor. raw</th>
<th>trials</th>
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Varhaisperuna, 2005-2012, Viralliset kokeet, 2. nosto
Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 2nd lifting
Estimoidut lajikekeskiarvot, Estimated variety means

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<th>Variety</th>
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<th>Terveet tubers</th>
<th>%</th>
<th>kpl</th>
<th>Rupi</th>
<th>%</th>
<th>kpl</th>
<th>Common scab</th>
<th>%</th>
<th>kpl</th>
<th>Bacterial disease</th>
<th>%</th>
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### Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 2nd lifting

**Estimated variety means**

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<th>Internal bruising %</th>
<th>Growth crack %</th>
<th>Hollow heart %</th>
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### Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 2nd lifting

**Estimated variety means**

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<th>Discolorat %</th>
<th>Other defects %</th>
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## Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 3rd lifting

### Estimated variety means

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<th>Yield difference</th>
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### Size distribution

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<th>70 - 50</th>
<th>50 - 30</th>
<th>&lt; 30 mm</th>
<th>kpl</th>
<th>mean tuber size (estimated)</th>
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### Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 3rd lifting

#### Estimated variety means

<table>
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<th>Lajike</th>
<th>Variety</th>
<th>Rikkikiehuminen kpl trials</th>
<th>Sloughing Maku kpl trials</th>
<th>Flavour kpl</th>
<th>Discolor. cooked Tummuminen keittynä kpl trials</th>
<th>Tummuminen raakana Discolor. raw kpl</th>
<th>Terveet kpl Tuber baktiv %</th>
<th>Rupi kpl Common scab %</th>
<th>Mukurutto kpl Tuber blight %</th>
<th>Sieni kpl Fungal disease %</th>
<th>Bakt. kpl Bacterial disease %</th>
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### Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 3rd lifting

#### Estimated variety means

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Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 3rd lifting
Estimoidut lajikekeskiarvot, Estimated variety means

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Early potato, *Solanum tuberosum* L., 2005-2012, Official variety trials, 3rd lifting
Estimoidut lajikekeskiarvot, Estimated variety means

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Timotei, 2005-2012, Viralliset kokeet
Timothy, *Phleum pratense* L., 2005-2012, Official variety trials
Estimoidut lajikekeskiarvot, Estimated variety means

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Timotei, 2005-2012, Viralliset kokeet: Luokittelu vyöhykkeittäin
Timothy, *Phleum pratense* L., 2005-2012, Official variety trials: Classification according to zones
Estimoidut lajikekeskiarvot, Estimated variety means

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Timothy, *Phleum pratense* L., 2005-2012, Official variety trials: Classification according to year
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Timotei, 2005-2012, Viralliset kokeet
Timothy, *Phleum pratense* L., 2005-2012, Official variety trials

Estimoidut lajikekeskiarvot, Estimated variety means

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**Note:**
- NN = Nurminata
- RN = Ruokonata
- RAI = Rainata
Meadow fescue, *festulolium* and *tall fescue*, *Festuca pratensis* Huds. & *Festuca arundinacea*, 2005-2012, Official variety trials

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Meadow fescue, *festuolium* and *tall fescue*, *Festuca pratensis* Huds. & *Festuca arundinacea*, 2005-2012, Official variety trials

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**Nurmi-, rai- ja ruokonata, 2005-2012, Viralliset kokeet: Luokittelu vuosittain**

Meadow fescue, *festilolium and tall fescue, Festuca pratensis Huds. & Festuca arundinacea, 2005-2012, Official variety trials: Classification according to year**

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Meadow fescue, *festilolium* and *tall fescue*, *Festuca pratensis* Huds. & *Festuca arundinacea*, 2005-2012, Official variety trials: Classification according to year

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- **Vuosi 2009 Winter damage %:** 7
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- **Vuosi 2012 Winter damage %:** 5,3
### Meadow Fescue, Festilolium and Tall Fescue, Festuca pratensis Huds. & Festuca arundinacea, 2005-2012, Official Variety Trials

#### Estimated Variety Means

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Estimoidut lajikekeskiarvot, Estimated variety means

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Estimoidut lajikekeskiarvot, Estimated variety means

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*Note: kpl = kilograms per hectare, trials = number of trials, Lignin = lignin content, Prot. yield = protein yield.*
**Nurmi-, rai- ja ruokonata, 2005-2012, Viralliset kokeet**

*Meadow fescue, festuolium and tall fescue, Festuca pratensis Huds. & Festuca arundinacea, 2005-2012, Official variety trials*

*Estimoidut lajikekeskiarvot, Estimated variety means*

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Meadow fescue, *festilolium* and *tall fescue*, *Festuca pratensis* Huds. & *Festuca arundinacea*, 2005-2012, Official variety trials

Estimated variety means

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Meadow fescue, *festilolium and tall fescue, Festuca pratensis Huds. & Festuca arundinacea*, 2005-2012, Official variety trials: Classification according to zones

Estimated variety means

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**Note:** The table above shows the winter damage percentage for various varieties in different zones, with the winter damage percentage for each trial given. The varieties listed include RETU, SWAJ, KAROLINA, BOR 20603, INKERI, VALTTERI, KLAARA, KASPER, SW MINTO, ILMARI, SW REVANSCH, BOR 20515, and FOJTAN. The table also includes the number of trials conducted in each zone.
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*Note: *: Indicates significance level
Meadow fescue, *festilolium and tall fescue, Festuca pratensis Huds. & Festuca arundinacea*, 2005-2012, Official variety trials

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**Note:** D-arvo = Digestible value, Digestible yield.
### Meadow fescue, Festilolium and tall fescue, Festuca pratensis Huds. & Festuca arundinacea, 2005-2012, Official variety trials

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Nurmi-, rai- ja ruokonata, 2005-2012, Viralliset kokeet

Meadow fescue, festilolium and tall fescue, *Festuca pratensis* Huds. & *Festuca arundinacea*, 2005-2012, Official variety trials

Estimoidut lajikekeskiarvot, Estimated variety means

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### Perennial rye-grass, Lolium perenne L., 2005-2012, Official variety trials

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### Italian rye-grass, *Lolium multiflorum* Lam., 2005-2012, Official variety trials

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### Italian rye-grass, 2005-2012, Viralliset kokeet: Luokittelu vyöhykkeittäin

**Estimated variety means**

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### Italian rye-grass, Lolium multiflorum Lam., 2005-2012, Official variety trials

#### Classification according to zones

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### Italian rye-grass, Lolium multiflorum Lam., 2005-2012, Official variety trials

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Italianraihinä, 2005-2012, Viralliset kokeet
Estimoidut lajikekeskiarvot, Estimated variety means

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Italianraihinä, 2005-2012, Viralliset kokeet
Estimoidut lajikekeskiarvot, Estimated variety means

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### Puna-apila, 2005-2012, Viralliset kokeet

*Estimoidut lajikekeskiarvot, Estimated variety means*

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Puna-apila, 2005-2012, Viralliset kokeet
Estimoidut lajikekeskiarvot, Estimated variety means

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VT 2005-2012, Luokittelut vyöhykkeittäin

Puna-apila, 2005-2012, Viralliset kokeet: Luokittelu vyöhykkeittäin

Red clover, *Trifolium pratense* L., 2005-2012, Official variety trials: Classification according to zones

Estimoidut lajikekeskiarvot, Estimated variety means

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**Note:**
- **C** = Control
- **o** = Other
- **** = Significant
- *** = Highly significant

Yield relative to the control
**Red clover, *Trifolium pratense* L., 2005-2012, Official variety trials: Classification according to zones**

*Estimoidut lajikekeskiarvot, Estimated variety means*

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*Tuho % — damage %*
**Red clover, *Trifolium pratense* L., 2005-2012, Official variety trials: Classification according to year**

**Estimated variety means**

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## Red clover, *Trifolium pratense* L., 2005-2012, Official variety trials: Classification according to year

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<td>10.0% (8)</td>
<td>100% (8)</td>
<td>18.7% (100)</td>
</tr>
<tr>
<td>SW TORUN</td>
<td>12.2% (64)</td>
<td>10.6% (8)</td>
<td>106% (8)</td>
<td>10.6% (57)</td>
</tr>
<tr>
<td>ILTE</td>
<td>15.6% (81)</td>
<td>8.7% (7)</td>
<td>87% (7)</td>
<td>9.6% (51)</td>
</tr>
<tr>
<td>SW YNGVE</td>
<td>15.9% (83)</td>
<td>10.3% (8)</td>
<td>103% (10)</td>
<td>16.4% (88)</td>
</tr>
<tr>
<td>BETTY</td>
<td>20.4% (107)</td>
<td>7.5% (8)</td>
<td>75% (10)</td>
<td>17.3% (92)</td>
</tr>
<tr>
<td>SAJJA</td>
<td>21.2% (111)</td>
<td>24.4% (7)</td>
<td>244% (7)</td>
<td>28.1% (150)</td>
</tr>
<tr>
<td>SW ARES</td>
<td>28.4% (149)</td>
<td>44.8% (8)</td>
<td>448% (8)</td>
<td>42.2% (226)</td>
</tr>
<tr>
<td>SUEZ</td>
<td>28.4% (149)</td>
<td>44.8% (8)</td>
<td>448% (8)</td>
<td>42.2% (226)</td>
</tr>
<tr>
<td>Variety</td>
<td>trials</td>
<td>Kok. laji</td>
<td>Sato 1v</td>
<td>Sato 2v</td>
</tr>
<tr>
<td>-------------</td>
<td>--------</td>
<td>------------</td>
<td>----------</td>
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<td>84</td>
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<tr>
<td>SILVESTER</td>
<td>13</td>
<td>3392</td>
<td>-250</td>
<td>93 *</td>
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Valkoapila, 2005-2012, Viralliset kokeet
White clover, *Trifolium repens* L., 2005-2012, Official variety trials
Estimoidut lajikekeskiarvot, Estimated variety means

<table>
<thead>
<tr>
<th>Variety</th>
<th>trials</th>
<th>Total laji</th>
<th>Yield 1st cut</th>
<th>Yield 2nd year</th>
<th>Yield 3rd year</th>
<th>Winter damage %</th>
<th>Autumn %</th>
<th>Spring %</th>
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<tr>
<td>JÖ 4</td>
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<td>3807</td>
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<td>3702</td>
<td>88 **</td>
<td>4</td>
<td>3579</td>
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### Valkoapila, 2005-2012, Viralliset kokeet
White clover, *Trifolium repens* L., 2005-2012, Official variety trials
Estimoidut lajikekeskiarvot, Estimated variety means

<table>
<thead>
<tr>
<th>Variety</th>
<th>Bot. anal-</th>
<th>Tähk.alk</th>
<th>Kuiva-</th>
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<tr>
<td></td>
<td>trials</td>
<td>trials</td>
<td>matter-</td>
</tr>
<tr>
<td></td>
<td>kpl</td>
<td>kpl</td>
<td>%</td>
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<tr>
<td>JÖ 4</td>
<td>17</td>
<td>13</td>
<td>16</td>
</tr>
<tr>
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<tr>
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### Valkoapila, 2005-2012, Viralliset kokeet: Luokittelu vyöhykkeittäin
White clover, *Trifolium repens* L., 2005-2012, Official variety trials: Classification according to zones
Estimoidut lajikekeskiarvot, Estimated variety means

<table>
<thead>
<tr>
<th>Variety</th>
<th>Zone 2</th>
<th>Zone 3</th>
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<tbody>
<tr>
<td></td>
<td>kg/ha</td>
<td>kg/ha</td>
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<tr>
<td></td>
<td>trials</td>
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<tr>
<td>JÖ 4</td>
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<td>4807</td>
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Valkoapila, 2005-2012, Viralliset kokeet: Luokittelu vyöhykkeittäin
White clover, *Trifolium repens* L., 2005-2012, Official variety trials: Classification according to zones
Estimoidut lajikekeskiarvot, Estimated variety means

<table>
<thead>
<tr>
<th>Variety</th>
<th>Year 2010 kg/ha</th>
<th>Year 2011 kg/ha</th>
<th>Suhde-luku</th>
<th>trials</th>
<th>Year 2012 kg/ha</th>
<th>Suhde-luku</th>
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<td>2973</td>
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<td>3078</td>
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<td>89</td>
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Valkoapila, 2005-2012, Viralliset kokeet: Luokittelut vuositaukoin
White clover, *Trifolium repens* L., 2005-2012, Official variety trials: Classification according to years
Estimoidut lajikekeskiarvot, Estimated variety means

<table>
<thead>
<tr>
<th>Variety</th>
<th>Zone 2 Winter damage %</th>
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Valkoapila, 2005-2012, Viralliset kokeet: Luokittelu vuosittain
White clover, *Trifolium repens* L., 2005-2012, Official variety trials: Classification according to years
Estimoidut lajikekeskiarvot, Estimated variety means

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<td>rel.</td>
<td>Year 2011 winter damage %</td>
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