

Sheep production in Finland

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Kaie Ahlskog

Specialist in sheep and goat production

ProAgria Keskusten Liitto Ry/Association of ProAgria Centres



Photo M. Alanco-Ollqvist

ProAgria

ProAgria is a Finnish expert organization providing an extensive network of specialists and a wide range of services to rural entrepreneurs.

ProAgria's experts will assist with defining production results and enhancements for the future. ProAgria provides extensive investment expertise and experience to rural entrepreneurs. Expertise and services are offered at every stage of the investment process - from planning to deployment and monitoring.

Advisors work together with industry partners and farmers in practical management. Examples include national selection breeding indexes for sheep, developed breeding programs together with Luke.

ProAgria maintains good contact with farmers in every part of Finland.

Organisations

- **ProAgria**
 1. Runs breeding program and recording for sheep and goat
 2. EU recognized breeding organization for sheepbreeds and finnish goat
 3. Consulting for sheep - and goatfarms
- **The Finnish Sheep Breeders Association**
 1. Publishes Sheep & Goat magazine
 2. Union for sheep farmers
 3. Breeding board mentors ProAgria
- **Finnsheep ry,**
- **Föreningen Ålandsfåret rf**



Authory:

1. **MMM- ministry of agriculture**
2. **Ruokavirasto – Finnish food safe authority**
3. **Ely-centres- work, trafic and envionment authority**

**Digital systems M-tech
for sheep: WebLammas**



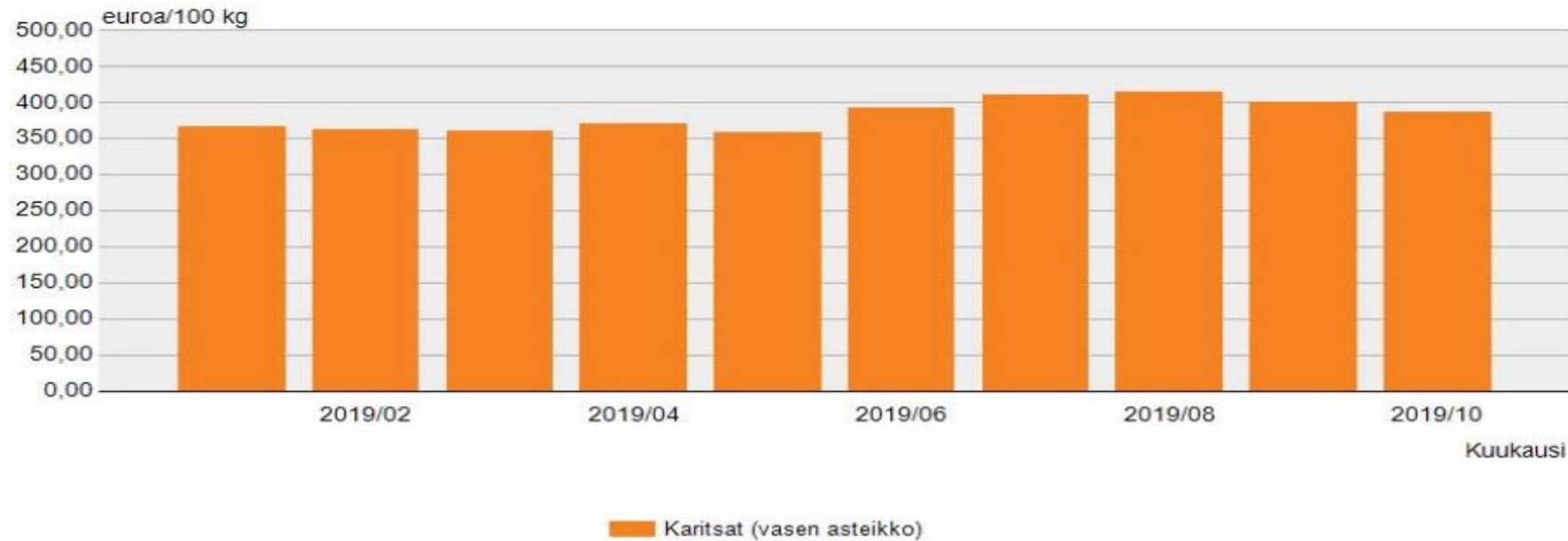
Key figures, sheep and lamb's meat

| Year | Consumption mil. kg | Production mil. kg | Import mil. kg |
|------|------------------------|-----------------------|-------------------|
| 2003 | 1,81 | 0,56 | 1,39 |
| 2006 | 2,5 | 0,65 | 1,9 |
| 2007 | 3,3 | 0,71 | 2,8 |
| 2009 | 3,0 | 0,7 | 2,4 |
| 2010 | 2,8 | 0,7 | 2,6 |
| 2011 | 3,5 | 0,9 | 2,7 |
| 2012 | 3,6 | 0,8 | 2,8 |
| 2013 | 3,1 | 0,9 | 2,1 |
| 2014 | 3,64 | 1,04 | 2,70 |
| 2015 | 3,94 | 1,26 | 2,72 |
| 2016 | 3,79 | 1,33 | 2,49 |

Wool 90 000 kg
prize 1,90 eur

Lamb's meat prices in Finland 2019

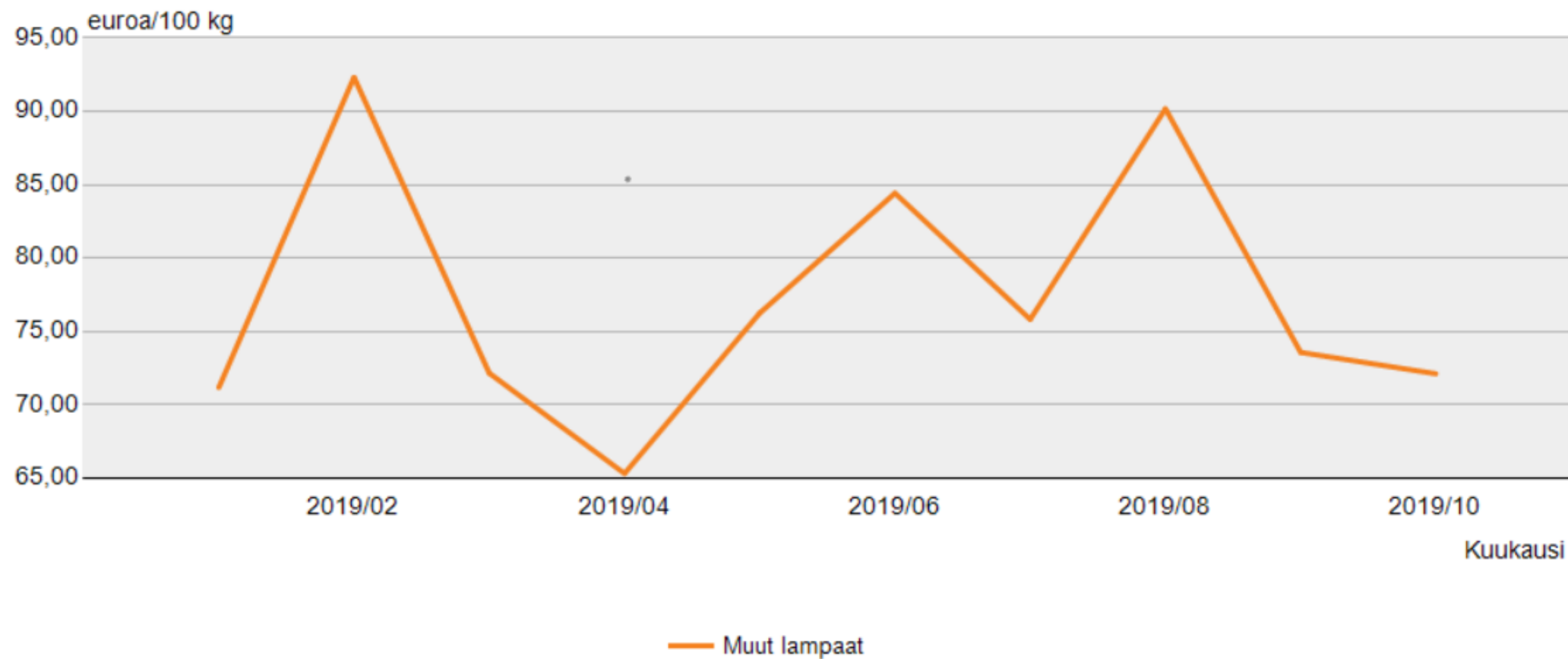
Lihan tuottajahinnat muuttujina Laji ja Kuukausi



Lähde: Luonnonvarakeskus, Maataloustuotteiden tuottajahinnat

- Luke, 2019

Lihan tuottajahinnat muuttujina Mutton prices 2019

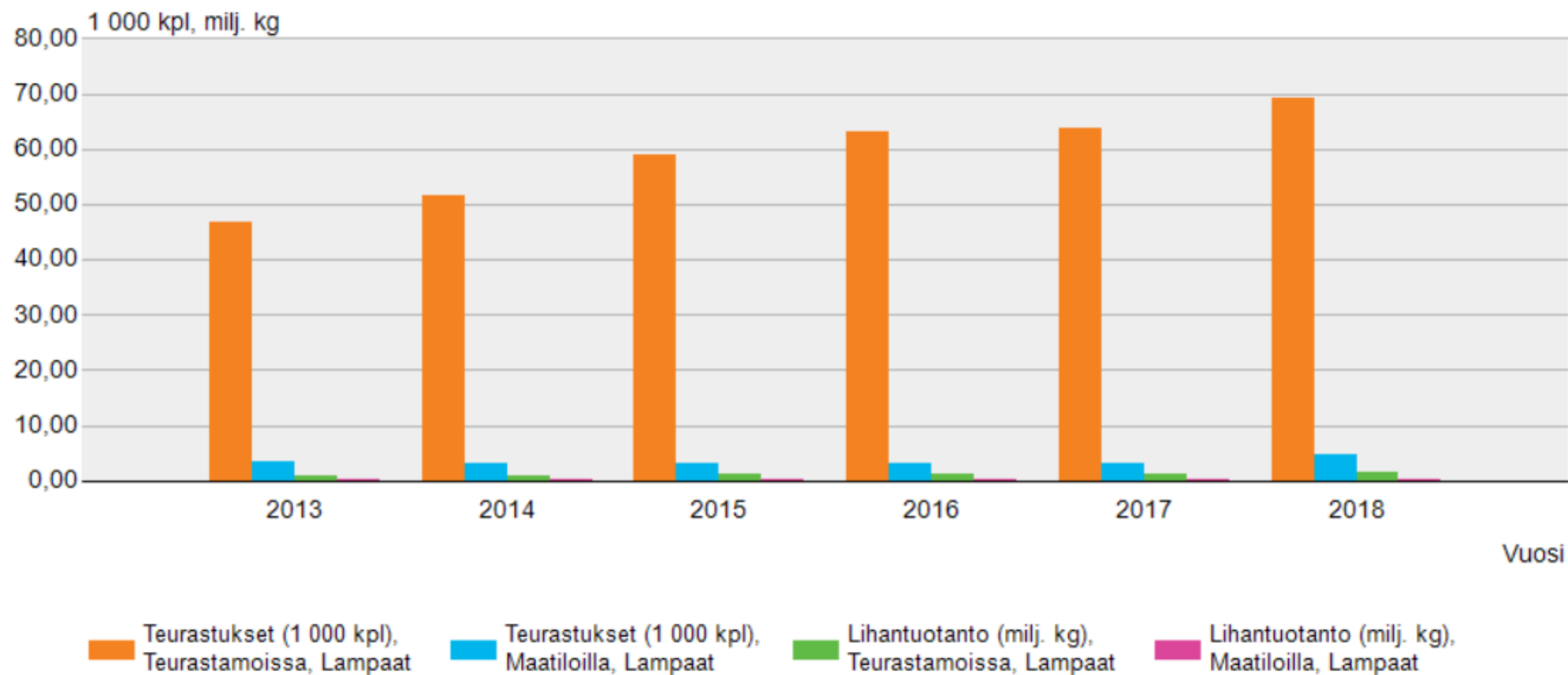


Sheep meat production monthly, Luke, 2019

Lampaanlihan kokonaistuotanto

| Teurastuspai kka | | | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|------------------------------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Meat production (milj. kg) | Abattoir | Lampaat | 0,92 | 1,03 | 1,20 | 1,27 | 1,29 | 1,42 |
| Meat Production (milj. kg) | Farms | Lampaat | 0,06 | 0,05 | 0,06 | 0,06 | 0,06 | 0,09 |
| Slaughters (1 000 kpl) | Abattoir Teurastamoissa | Lampaat | 46,76 | 51,70 | 59,02 | 63,16 | 63,67 | 69,15 |
| Slaughters (1 000 kpl) | Farms | Lampaat | 3,60 | 3,30 | 3,30 | 3,30 | 3,30 | 4,70 |

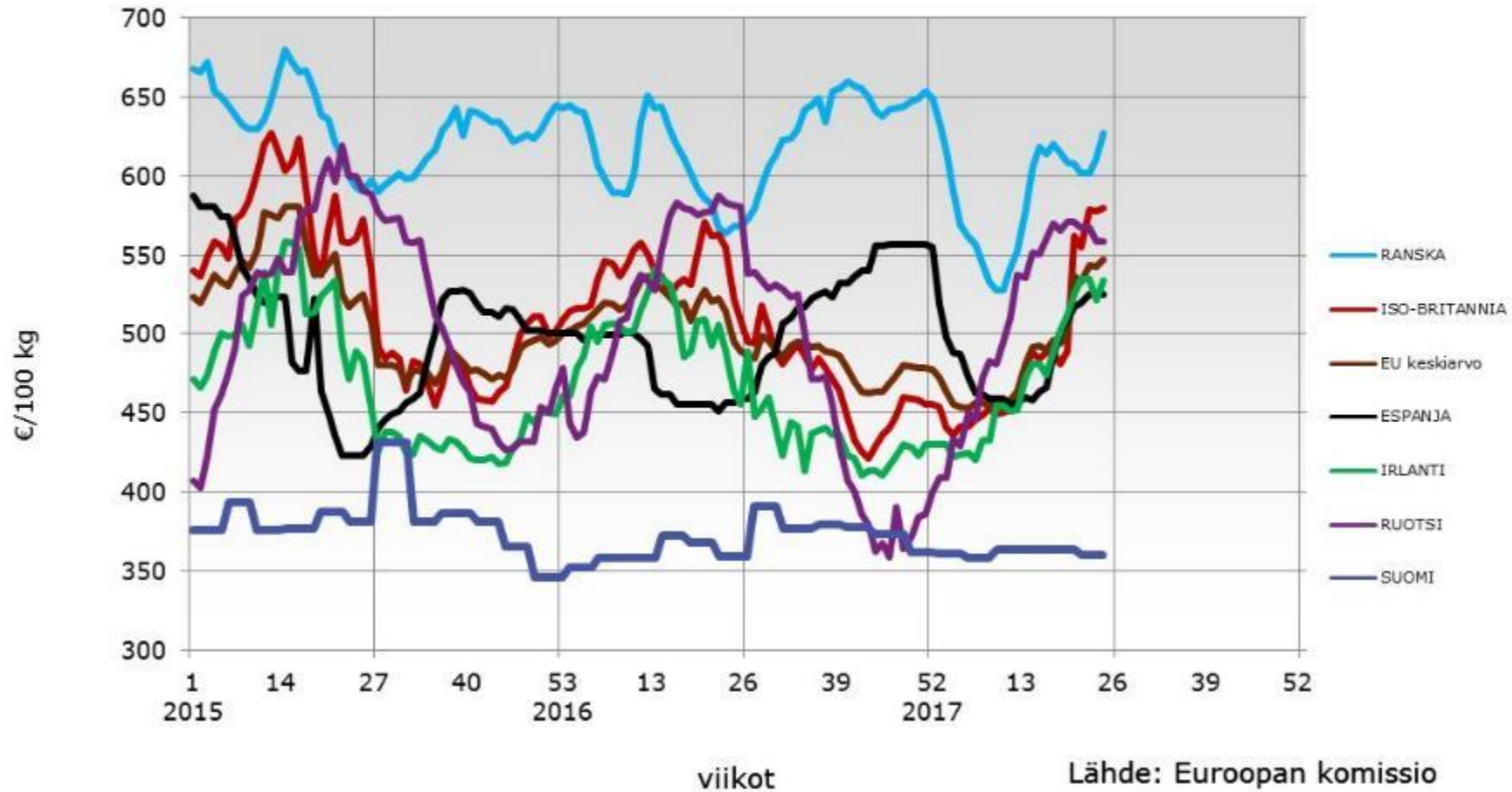
Lihan kokonaistuotanto Total meat production



Lähde: SVT: Luonnonvarakeskus, Lihantuotanto

Producerprice for heavy sheep in EU

LAMPAAN TUOTTAJAHINTA (raskas)



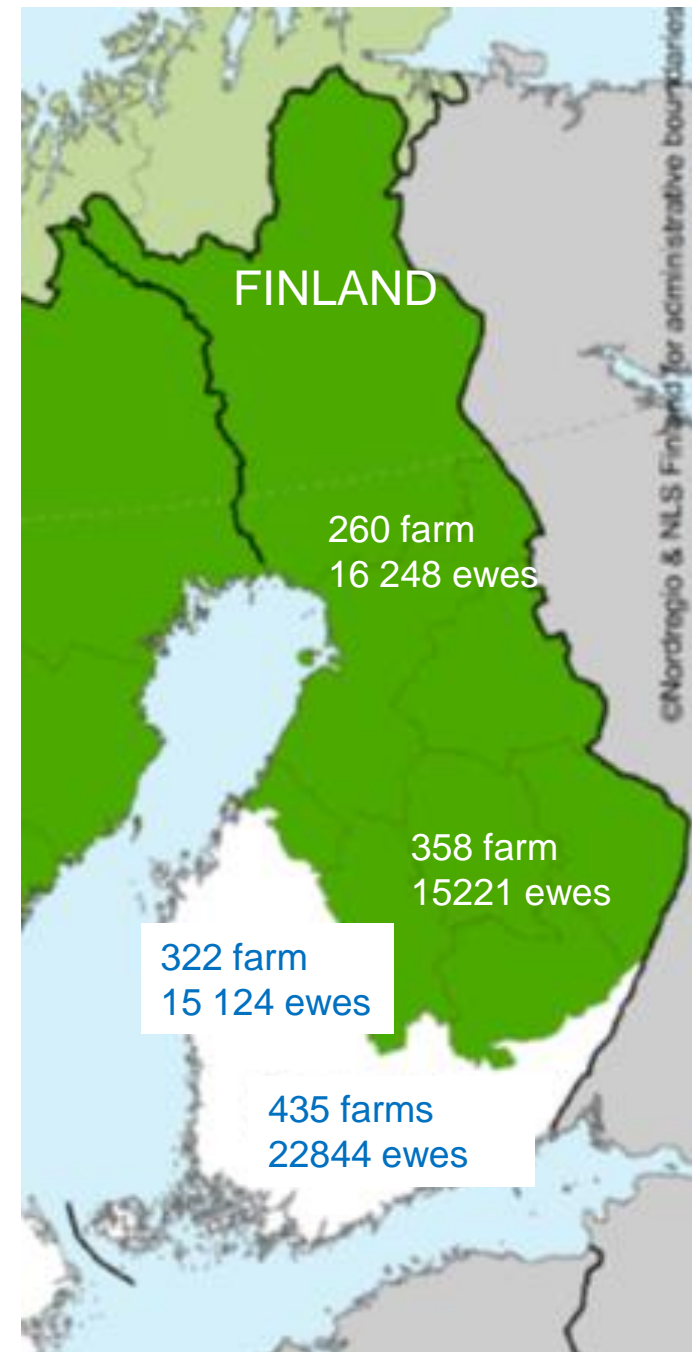
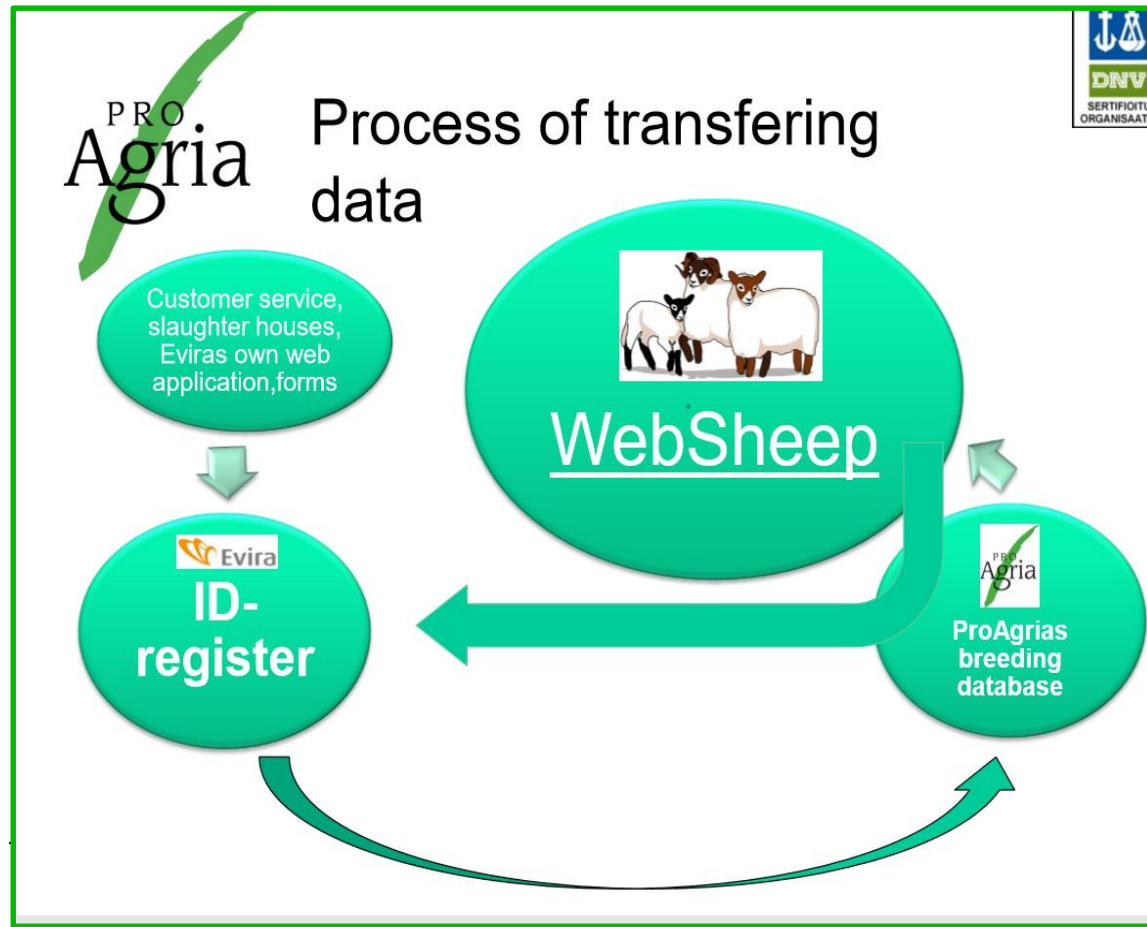
France
UK
Great-Britain EU-
midleprice
Spain

Ireland
Sweden
Finland

Lähde: Euroopan komissio

Sheep farms in Finland

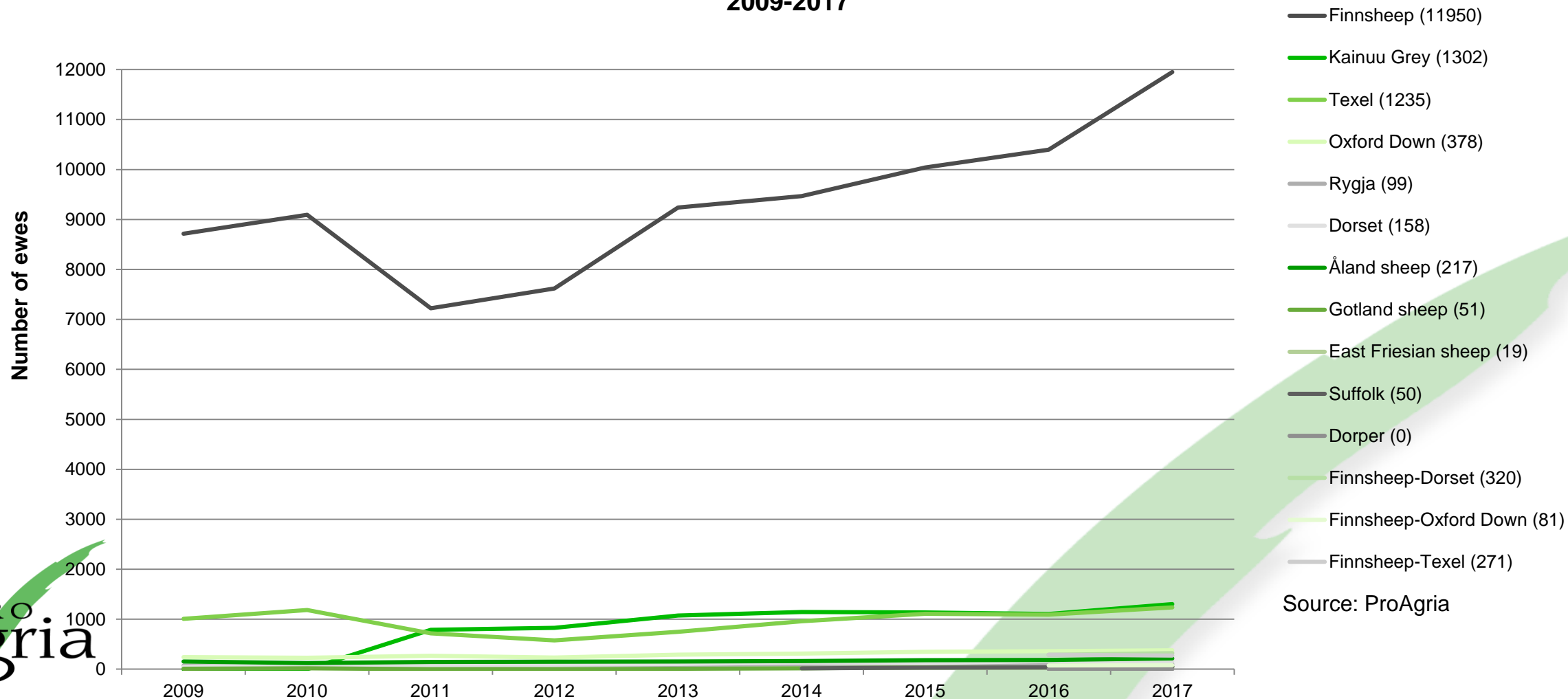
30% of all farms are in ProAgrias recording system





Sheep breeds in Finland

Distribution of lambed ewes
2009-2017



Source: ProAgria

Results of breeding control

- <https://proagria.fi/sisalto/hittilistat-2018-11816>

Taulukko 4. Uuhien rotukeskiarvot

| Rotu | Karitsoin. Uuhia, kpl | Tuotos- uuhia, kpl | Synt. kar. | Eloon kar. | Karitsa- tuotos, kg/ uuhi | 6 vk paino, kg | Aikuis- paino, kg |
|-------------------------------|-----------------------------|--------------------------|---------------|---------------|---------------------------------|----------------------|-------------------------|
| Vanhemmat uuhet | | | | | | | |
| Ahvenanmaan lammas | 180 | 68 | 2,18 | 2,09 | 23,12 | 10,97 | 65,25 |
| Dorset | 142 | 127 | 1,76 | 1,69 | 32,51 | 19,73 | 68,52 |
| Ruotsalainen turkislamm | 66 | 21 | 1,67 | 1,64 | 32,86 | 18,87 | – |
| Itä-friisiläinen maitolamm | 19 | 19 | 2,26 | 2,16 | 33,96 | 17,11 | 81,15 |
| Kainuunharmas | 1 237 | 543 | 2,40 | 2,12 | 29,90 | 13,92 | 68,46 |
| Rygja | 80 | 70 | 1,45 | 1,34 | 24,02 | | 75,71 |
| Suomenlammas | 12 148 | 3 805 | 2,39 | 2,10 | 33,85 | 15,03 | 75,40 |
| Texel | 1334 | 740 | 1,67 | 1,58 | 27,77 | 18,13 | 73,47 |
| Suffolk | 51 | 49 | 1,69 | 1,65 | 34,84 | 21,36 | 82,50 |
| Oxford down | 342 | 265 | 1,70 | 1,61 | 32,55 | 19,66 | 82,86 |
| 1-vuotiaat uuhet | | | | | | | |
| Ahvenanmaan lammas | 14 | 2 | 1,71 | 1,71 | 10,05 | 10,05 | |
| Dorset | 53 | 50 | 1,21 | 1,19 | 23,48 | 19,84 | |
| Kainuunharmas | 79 | 17 | 1,67 | 1,59 | 23,16 | 13,17 | |
| Suomenlammas | 1 121 | 361 | 1,81 | 1,64 | 24,59 | 13,77 | |
| Texel | 317 | 217 | 1,09 | 1,04 | 18,89 | 17,59 | |
| Oxford down | 9 | 7 | 1,22 | 1,11 | 21,99 | 17,27 | |

Features and functions WebSheep

- Filters
- Sorters
- Fast storing of data
 - transfers, removals, lambings, weights, thickness of spinal muscle and fat, liveEUROP evaluation
- Processing of data
 - growth g/d: raw and relative, slaughtering time estimations, BLUP-index
- Reminders: weighings and evaluations
- Reports and comparison with other farms
- Adaptable and handy menus
- **Electronic family tree**
 - Results and genetic level of relatives
- **Father lines** automatically
- **Inbreeding co-efficients** calculation with 20 generations
 - Possibility to test another farms ram that is for sale or a ram on AI-catalog
- **Sorting animals** by index, production results or by any combination

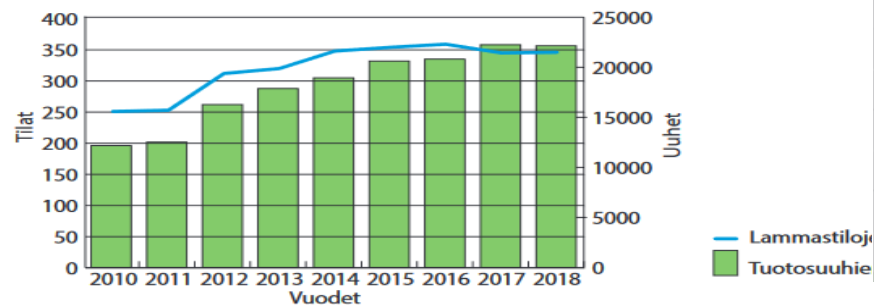
Recorded: littersize and number of ewes 2018

PRO
Agria ProAgrian lammastuotosseurannan tiedot 2018

Taulukko 1. Tilojen luokittelu uuhimäärän mukaan

| Uuhimäärä | Vuosi | | | | | | | |
|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| 1-9 | 21 | 37 | 33 | 45 | 32 | 29 | 29 | 22 |
| 10-29 | 87 | 98 | 90 | 90 | 88 | 86 | 67 | 72 |
| 30-49 | 48 | 55 | 66 | 56 | 67 | 78 | 74 | 66 |
| 50-99 | 66 | 77 | 78 | 82 | 94 | 93 | 96 | 95 |
| 100- | 31 | 45 | 53 | 59 | 61 | 61 | 73 | 75 |
| yli 150 osuus | | | | | | | 27 | 26 |
| Yhteensä | 253 | 251 | 320 | 332 | 342 | 347 | 339 | 330 |

Uuhien ja lammastilojen lukumäärä tuotosseurannassa



| Rotu | Karitsoin. Uuhia, kpl | Tuotosuuhia, kpl | Synt. kar. | Eloon kar. | Lamb-production Karitsa-tuotos, kg/uuhi | 6 w. weight 6 vk paino, kg | Adult weight Aikuis-paino, kg |
|----------------------------|-----------------------|------------------|------------|------------|---|----------------------------|-------------------------------|
| Vanhemmat uuhet | | | | | | | |
| Ahvenanmaan lammas | 180 | 68 | 2,18 | 2,09 | 23,12 | 10,97 | 65,25 |
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Sheep farms in Finland

Litter size

- "Hobby farms" 10-70 ewes
- "Professionals" 100-800 ewes (over 500 ewes - about 10 farms)
- Usual producer (family) and only large farms have seasonal workers, during lambing time
- Contractors are used for shearing, clearing manure, silage harvesting
- Typically the sheepfarm has around 30 hectars of fields and
 - possible also natural pastures



Natural pastures



Sheep farms in Finland

- Indoor season is long (from September to April)
- Lambs are growing usually until slaughtering, in farm, where they were born
- Producing periodic
 - Lambing times all year round:
spring, autumn and summer groups
 - Adjusting growth time, daily growth goal 100g-400g
- subsidies support lamb-production (animal units/hectare, landrace subsidies, animal welfare regulations)
- Subsidies for field hectars
- Subsidies for animal units/hectar
- Landrace subsidy
 - Slaughtered lamb quality reward (for lambs with carcass weight min. 18 kg)
 - Landscape pasture subsidies
 - Animal welfare subsidies
 - Natural disadvantage compensation (ex. LFA)
 - Subsidies for organic farming
 - Subsidies for environmental management
 - Subsidies for young farmers



Photo M. Alanco-Ollqvist

Traditional production cycle in Finland

Mating: October

Lambing: March-April

All sheep are out on pasture in
June-August

Slaughter October-December



Photo M.Alanco-Ollqvist



Photo M.Alanco-Ollqvist

Challenges

- The cold Finnish climate. Lambs need to be supervised carefully (in the greatest danger are sibling groups of 3-4 lambs).
- Indoor season is long: higher costs of rearing lambs for slaughter in winter compared to the costs of rearing on pasture.



Photo M.Alanco-Ollqvist

Heat lamps are needed for cold sheep sheds



Photo M.Alanco-Ollqvist

Lamb feeder and milk bar for sibling groups of 3-4



Photo M.Alanco-Ollqvist

Sheep shed in Korsholm in Ostrobothnia 120 ewes



Photo M.Alanco-Ollqvist

Övermark organic farm 200 ewes



Photo M.Alanco-Ollqvist

Ewes grazing in August in Äänekoski in Central Finland



Photo M.Alanco-Ollqvist

Ewes grazing in September in in Central Finland



Pasture end of March, South-West Finland





Exhibitions (Farmari, Okra)

