

EuroDairy

Inventory of dairy Knowledge Transfer Centres (KTC's)



DKC Foulum Universitet
(Denmark)



This project has received funding from the European Union's Horizon 2020 research and innovation programme (ISIB-2015-1 programme) under grant agreement No 696364

D2.6: Inventory of dairy Knowledge Transfer Centres (KTC's), their facilities and knowledge exchange capacity

Submission date:

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Names of the responsible authors and organisations:

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Dissemination level:

Public

About EuroDairy

EuroDairy spans 14 countries, from Ireland to Poland, and from Sweden to Italy, encompassing 40% of dairy farmers, 45% of cows and 60% of European milk output. EuroDairy is an international network to increase the economic, social and environmental sustainability of dairy farming in Europe. EuroDairy fosters the development and dissemination of practice-based innovation in dairy farming, targeting key sustainability issues: socio economic resilience, resource efficiency, animal care, and the integration of milk production with biodiversity objectives. EuroDairy is funded by the EU Horizon 2020 research and innovation programme under Grant Agreement No 696364.

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1. Objective

The aim of Task 2.5 of the EuroDairy project was to create an inventory of Knowledge Transfer Centres (KTC's) already working in close association with dairy farmers, notably EuroDairy pilot farmers.

This includes capturing information on location, experimental facilities, research avenues, development projects, educational capabilities and knowledge exchange activity. With appropriate agreements, existing resources, tools, expertise, and the results of completed and ongoing trials are made accessible to EuroDairy participants by following the http links to existing websites of these KTCs.

2. Approach

For the purpose of the EuroDairy project, a KTC was characterised as:-

- being located in the member states and regions involved in the EuroDairy project
- with infrastructures relevant to dairy production
- developing research, training or extension activities in dairy topics covered by at least one of the four main EuroDairy themes
- centres showing or presenting innovations, interacting directly with farmers or future farmers within the framework of training sessions, visits, open days etc. (effectively excluding *de facto* research centres and institutes with pure research activity, but no contact with end-users such as dairy farmers).

An initial list of Centres was proposed by project partners, and an online survey was constructed to gather information necessary to describe KTC facilities and activities relevant to EuroDairy topics. A leaflet format was produced to provide an overview of each KTC. The location of each KTC was entered onto a GIS map located on the EuroDairy website, linked to the descriptive leaflet for each.

3. Outputs

This document contains:

- A list of locations and contacts for the 32 KTCs identified by EuroDairy partners in their regions (Annex A)
- The map of these centres (Annex B)
- The descriptive leaflets provided by 29 KTCs (Annexes C & D).

Two countries, Portugal and Slovenia, reported that there were no KTC's operating which were relevant to the themes and approach of the EuroDairy project.

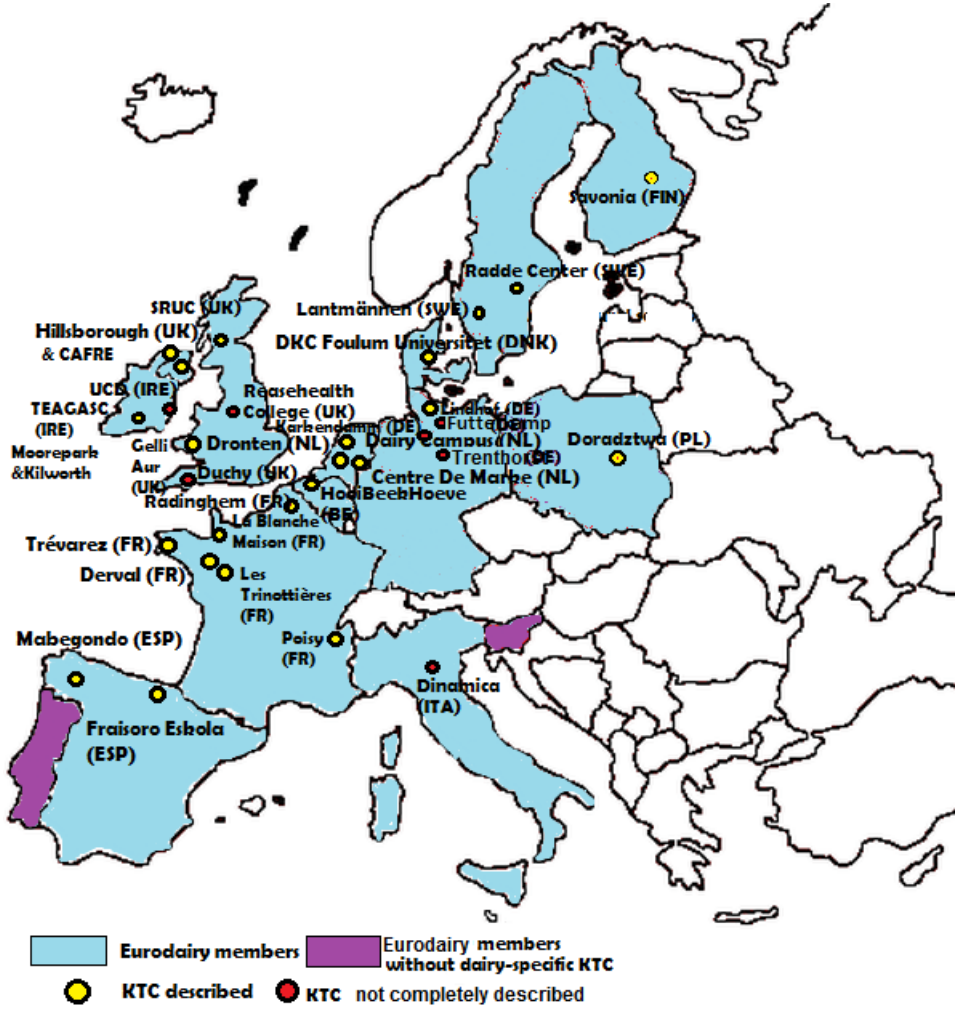
4. Annexes

Annex A: KTC's identified in each EuroDairy partner country

country	KTC name	Contact	Address
Belgium	HooibeekHoeve	ilse.vandenbroeck@provincieantwerpen.be	Hooibeeksedijk 1, 2440 Geel - BELGIUM
Denmark	DKC Foulum	merete.jensen@anis.au.dk	Aarhus Universitet, Forskningcenter Foulum, Burrehøjvej 49, 8830 Tjele - DENMARK
Finland	Savonia University of Applied Sciences	salla.ruuska@savonia.fi	Microkatu 1, FI-70201 KUOPIO - FINLAND
France	Trevarez-Conventional	pascal.lecoeur@bretagne.chambagri.fr	Station expérimentale Trévarez – St Goazec 29520 Châteauneuf du Faou - FRANCE
France	Trevarez-Organic	pascal.lecoeur@bretagne.chambagri.fr	Station expérimentale Trévarez – St Goazec 29520 Châteauneuf du Faou - FRANCE
France	Derval	marc.fougere@loire-atlantique.chambagri.fr	Ferme expérimentale Derval, 15 La Touche 44590 Derval - FRANCE
France	Les Trinottières	julien.jurquet@idele.fr	Ferme expérimentale des Trinottières, la Futaie, 49140 Montreuil sur Loir - FRANCE
France	La Blanche Maison	laurent.clarys@normandie.chambagri.fr	Ferme expérimentale de Normandie - La Blanche Maison 50880 Pont Hebert - FRANCE
France	Poisy	Nicole Bloc direction@elevage-poisy.org	845 Route de l'école d'agriculture, 74330 POISY - FRANCE
France	Lycée de Radinghem	frederic.grattepanche@educagri.fr	58 Rue Principale, 62310 Radinghem - FRANCE
Germany	Lindhöft	Sabine Mues lindhof@email.uni-kiel.de	Bäderstraße 31, D-24214 Lindhöft
Germany	Futterkamp	lvz-fuka@lksh.de	Gutshof D-24327 Blekendorf
Germany	Karkendamm	karkendamm@tierzucht.uni-kiel.de	Karkendam 24567 Bimöhlen
Germany	Trenthorst	kerstin.barth@thuene.de	Trenthorst 32 DE-23847 Westerau
Ireland	Moorepark	Laurence.Shalloo@Teagasc.ie	Animal and Grassland Research and Innovation Centre Teagasc Moorepark Fermoy Cork IRELAND
Ireland	Teagasc Dairygold farm	Laurence.Shalloo@Teagasc.ie	Dairygold farm Teagasc Moorepark Fermoy Cork

Ireland	Lyons Research Farm, UCD	karina.pierce@ucd.ie	University College Dublin Belfield, Dublin 4 - IRELAND
Italy	Dinamica	r.prampolini@dinamica-fp.it	Via Bigari, 3 40128 Bologna – ITALY
NL	Dronten	jan.bloemert@wur.nl	Wisentweg 13C, 8251 PB Dronten -THE NETHERLANDS
NL	Centre de Marke	zwier.vandervegte@wur.nl	Roessinkweg 2, 7255 PC Hengelo - THE NETHERLANDS
NL	Dairy Campus	kees.dekoning@wur.nl	Boksumerdyk 11, 9084 AA Leeuwarden - THE NETHERLANDS
Poland	Centrum Doradztwa Rolniczego w Brwinowie	sekretariat@cdr.gov.pl obojska@cdr.gov.pl	05-840 Brwinów ul. Pszczelińska 99
Portugal	No KTC in country in relation to ED topic	htrinidad@utad.pt	
Slovenia	No KTC in country in relation to ED topic	Marija.Klopčič@bf.uni-lj.si	
Spain	Fraisoro Eskola	jjormazabal@fraisoroeskola.net	Fraisoro Eskola, Elbarrena auzoa, z/g 20159 Zizurkil (Gipuzkoa) - SPAIN
Spain	Mabegondo	cesar.resch.zafra@xunta.gal	Estrada Betanzos Mesón do Vento km 7 – Abegondo, Mabegondo, A Coruña - SPAIN
Sweden	Lantmännen dairy farm, Nötcenter Viken	Pernilla.Salevid@lrfkonsult.se	Vikens Egendom, 521 91 Falköping - SWEDEN
Sweden	R°adde Experimental Farm	elisabet.nadeau@slu.se	Rural Economy and Agricultural Society Sjuhärads, 514 52 Länghem
UK	Gelli Aur (Wales)	siwan.howatson@ahdb.org.uk	Golden Grove, Carmarthen, SA32 8NJ – WALES (UK)
UK	SRUC	Dave.Roberts@sruc.ac.uk	SRUC Crichton Royal Farm, Glencaple Road, Dumfries DG1 4AS – SCOTLAND (UK)
UK	Reaseheath College	davek@reaseheath.ac.uk	Reaseheath College, Nantwich CW5 6DF - THE UK
UK	Duchy College	s.roderick@cornwall.ac.uk	Duchy College, Rosewarne, Camborne, Cornwall TR14 0AB
UK	Hillsborough (NI)	deborah.mcconnell@afbini.gov.uk	Large Park, Hillsborough BT26 6DR – Northern Ireland - UK
UK	CAFRE (NI)	martin.mulholland@daera-ni.gov.uk	45 Tirgracy Rd, Antrim BT41 4PS – Northern Ireland - The UK

Annex B: Location of KTCs identified



KTCs' map within the Eurodairy members

Annex C: List of KTC leaflets produced

country	KTC name
Belgium	HooiBeekHoeve
Denmark	DKC Foulum
Finland	Savonia University of Applied Science
France (Brittany)	Trevarez-Conventional
France (Brittany)	Trevarez-Organic
France (Pays de la Loire)	Derval
France (Pays de la Loire)	Les Trinottières
France (Normandy)	La Blanche Maison
France (Rhône-Alpes)	Poisy
France (Hauts de France)	Lycée de Radinghem
Germany	Lindhof
Germany	Lehr- und Versuchszentrum Futterkamp
Germany	Versuchsbetrieb Karkendamm
Germany	Versuchsbetrieb des Thünen-Instituts für Ökologischen Landbau, Trenthorst
Ireland	Moorepark
Ireland	Teagasc Dairygold farm
The Netherlands	Dronten
The Netherlands	Centre de Marke
The Netherlands	Dairy Campus
Poland	Centrum Doradztwa Rolniczego w Brwinowie
Spain (BC)	Fraisoro Eskola
Spain (Gal)	Mabegondo
Sweden	Nötcenter Viken
Sweden	Rädde Center for forage
UK (Wales)	Gelli Aur
UK (Scotland)	SRUC Crichton
UK (England)	Duchy College
UK (NI)	Hillsborough
UK (NI)	CAFRE

Annex D: Leaflets for individual KTC's









Address: Hooibeeksedijk 1, 2440 Geel - BELGIUM

Contact: Ilse Van den Broeck Ilse.vandenbroeck@provincieantwerpen.be Tel : +3214852707

Katleen Geerinckx: Katleen.geerinckx@provincieantwerpen.be.

Website: <https://www.provincieantwerpen.be/aanbod/dwep/hooibeekhoeve/hooibeekhoeve.html>

LINK WITH ED'S MAIN TOPICS

-  Different techniques tested to decrease the amount of ammonia
-  Detect parameters which are involved in treatments and healing of mastitis
-  Ad libitum feeding during the 2 first weeks of the calves
-  Sensors to detect calving and fertility
-  Less use of antibiotics
-  Rainwater filters to use it in the farm

SITE CHARACTERISTICS

Soil: Sandy

Precipitations: 800 mm per yr

Climate: Temperate

Altitude: 20m asl



HooiBeekHoeve

Belgium
Flanders



FARM CHARACTERISTICS

- Total area (ha): 59
- Crop rotation: Grass-Maize-another one (depends on the experiments needs)
- Milking cows: 66
- Young stock: 23 Heifers 37 Calves <12 months
- Bulls: 0
- Production intensity: 9,900 kg milk per cow per yr
- Grazing hours: 0h/day (except if there are grazing experiments)
- Grazing period: 0
- Permanent grasslands: 23ha
- Workers: 4,5 WU

SPECIAL EQUIPMENT

- 2 Automated milking systems
- Herd navigator
- Body condition score cameras
- Individual feeding boxes
- Sensors to detect: calving, fertility, body condition score, ketosis, mastitis

FACILITIES

- 2 stables
- Mini lab
- Automatic milk station for calves

EDUCATION CAPABILITIES

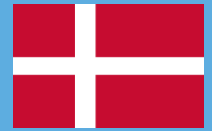
- Large meeting room
- 2 classrooms
- Regular farmers' day and farm visits

More details on: www.eurodairy.eu
Contact: Valérie Brocard (Institut de l'Élevage)
Valerie.brocard@idele.fr





DKC Foulum Universitet



Denmark






Address: Aarhus Universitet, Forskningcenter Foulum, Burrehøjvej 49, 8830 Tjele - DENMARK

Contact: Merete Jensen : merete.jensen@anis.au.dk

Website: <http://anis.au.dk/danmarks-kvaegforskningcenter/>

LINK WITH ED'S MAIN TOPICS

-  Animal nutrition and food analysis
-  Animal welfare
-  Methane emissions

SITE CHARACTERISTICS

Precipitations: 781 mm

Climate: Oceanic

Altitude: 54m asl



DKC Foulum Universitet



Denmark

FARM CHARACTERISTICS

Total area (ha): 0
Crop rotation: None
Milking cows: 210 (Friesian & Jersey)
Young stock: 220 Heifers 40 Calves
Bulls: 0

SPECIAL EQUIPMENT

- Sensors

FACILITIES

- AMS
- Insentec feed boses

EDUCATION CAPABILITIES

- Open doors technical days
- Visits

More details on: www.eurodairy.eu
Contact: Valérie Brocard (Institut de l'Élevage)
Valerie.brocard@idele.fr



Rédaction : V Gotti, Institut de l'Élevage - Crédit photo : Idele - Réalisation : S. Dauphin (Institut de l'Élevage) - Réf : 00 18 302 002 - Décembre 2018



Euro Maito

Address: Mikrokatu 1, FI-70201 KUOPIO, Finland




Contacts:

- Salla Ruuska salla.ruuska@savonia.fi +358447856140
- Heli Wahlroos heli.wahlroos@savonia.fi +358447856656
- Petri Kainulainen petri.kainulainen@savonia.fi +358 44 785 6635

Website: www.savonia.fi

Savonia University of Applied Science does not have a research farm. However, in RDI projects we co-operate with e.g., Natural Resources Institute Finland (<https://www.luke.fi/en/>), especially Maaninka Research Station, and Ylä-Savo Vocational Collage (<https://www.ysao.fi/In-English>).

LINK WITH ED'S MAIN TOPICS

-  Energy and nutrient efficiency
-  Leadership and management on dairy farms
-  Animal health welfare

Savonia University of Applied Sciences (Savonia UAS) is participating and coordinating multiple innovative projects, e.g., EuroMaito project (<http://euromaito.savonia.fi/in-english>) and Thermal Imaging of Cattle (KuNa)

SITE CHARACTERISTICS

Soil: High organic matter content, loam

Precipitations: 700 mm per yr

Climate: Temperate continental climate / Humid continental climate

Altitude: 218m



FARM CHARACTERISTICS (ONLY FORAGE CENTER)

Total area (ha): 492 ha
Crop rotation: 3 years of ley followed by 1 year of barley and 1 year of wheat
Milking cows: 440 (Holstein, Red Vikings, Montbéliarde X Jersey)
Young Stock: 265 Heifer 500 Calves
Bulls: 0
Production intensity: 11,300 kg ECM per cow and year
Grassland area: 292 ha
Permanent grasslands: 42ha
Grazing period: Early May to mid-August
Grazing hours: free access h24
Workers: 10

SPECIAL EQUIPMENTS

- Biocontrol individual automatic feed scales for research projects with the dairy cows.
- Cow activity monitors for checking heat, automatic scale for registration of body weights of the cows

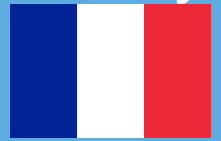
FACILITIES

- A modern stable for housing of heifers from 3 months of age. Calves in individual pens for 16 days before moved to group pens (igloos) in outdoor facility until 80 days of age.

EDUCATION CAPABILITIES

- Presentation of the forage demonstration plots, of on-going and performed feeding trials with the dairy cows. Nötcenter Viken is open for other agricultural organisations to organize seminars and meetings with farmers and advisors.
- The farm manager have visits from pre-schools, elementary schools and high schools when the students learn about farming.
- Meetings and courses to increase the competence for advisors and farmers.

More details on: www.eurodairy.eu
Contact: Valérie Brocard (Institut de l'Élevage)
Valerie.brocard@idele.fr






Address: Station expérimentale Trévarez – St Goazec 29520 Châteauneuf du Faou - FRANCE

Contact: Pascal Le Cœur pascal.lecoeur@bretagne.chambagri.fr +33298268316

Website: <http://www.bretagne.synagri.com/synagri/station-de-trevarez>

LINK WITH ED'S MAIN TOPICS

-  Forage Protein self-sufficiency: Production of forage and grazing management
-  Reduced milking interval, once-a-day milking
Producing milk from grass (low level of concentrate) to limit feeding cost
-  Low carbon impact in the farm (beginning in 2018), the 2 herds (see below) will merge.

SITE CHARACTERISTICS

Soil: clay/silt on schist

Precipitations: 1,300 mm/year

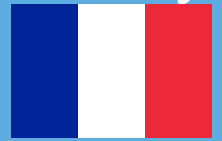
Climate: Oceanic

Altitude: 75-250m asl



Trévarez Conventional farm

France
Brittany



FARM CHARACTERISTICS

The following information is based on 2 herds, one fed with a lot of maize (S1), the other fed with more grass (S2).

- Total area (ha): 63 - 66
- Crop rotation: Grass-Maize-Wheat
- Milking cows: 57 – 68 (Holstein Friesian)
- Young stock: 60 Heifers (aimed 45 for the low carbon impact project) 0 male Calves
- Bulls: 0
- Production intensity: 9,000 kg milk per cow per yr – 7,800 kg milk per cow per yr
- Grazed area (ha per cow): 0.15 – 0.40
- Particularities: For S1, single crop maize on 8 ha
- Grazing period: 10/03-01/11 20/02-01/12
- Workers: 4

SPECIAL EQUIPMENT

- Slurry separator
- Cubicles equipped with mattresses
- Rear (90°) milking parlour – 20 clusters

FACILITIES

- Meeting room (80 p max)

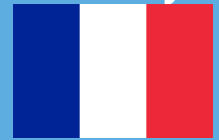
EDUCATION CAPABILITIES

- Visits (advisers, farmers, schools)
- Training courses (initial and continuing vocational training)
- Open doors technical days



More details on: www.eurodairy.eu
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Rédaction : V Gotti, Institut de l'Élevage - Crédit photo : Idele - Réalisation : S. Dauphin (Institut de l'Élevage) - Réf : 00 18 302 002 - Décembre 2018









Address: Station expérimentale Trévarez – St Goazec 29520 Châteauneuf du Faou - FRANCE

Contact: Pascal Le Cœur pascal.lecoeur@bretagne.chambagri.fr +33298268316

Website: <http://www.bretagne.synagri.com/synagri/station-de-trevarez>

LINK WITH ED'S MAIN TOPICS

-  Low feeding cost, organic production
-  <http://www.bretagne.synagri.com/synagri/nos-actions-de-recherche>
-  <http://www.bretagne.synagri.com/synagri/nos-projets>
-  Mobile robot in a grazing system
-  Dairy herd management for labour efficiency
-  Protein self-sufficiency, Production of forage and grazing management



Trévarez – Organic farm

France
Brittany



SITE CHARACTERISTICS

Soil: clay/silt on schist
Precipitations: 1,300 mm per year
Climate: Oceanic
Altitude : 75-250m asl

FARM CHARACTERISTICS

- Total area (ha): 85
- Crop rotation: Grass-Maize-Wheat or Wheat-legumes mixtures
- Milking cows: 60 (Holstein Friesian crossed with Normande and Jersey breeds)
- Young stock: 20 Heifers 0 male calves
- Bulls: 0
- Production intensity: 5,200 kg milk per cow per yr
- Grazing area (ha per/cow): 0.20 (winter site) + 0.45 (summer site)
- Grazing period: 20/02-01/12
- Grazing hours/day: 24
- Workers: 2 WU

SPECIAL EQUIPMENT

- Mobile milking robot as milking equipment, mobile tank

FACILITIES

- Meeting room (80 ppl max)

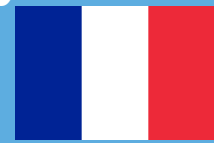
EDUCATION CAPABILITIES

- Training courses
- Public visits
- Farmers and advisers groups visits
- Open doors technical days



More details on: www.eurodairy.eu
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Address: Ferme expérimentale Derval, 15 La Touche 44590 Derval - FRANCE

Contact: Marc FOUGERE marc.fougere@pl.chambagri.fr +33253466004

Website: <https://pays-de-la-loire.chambres-agriculture.fr/vos-chambres/en-pays-de-la-loire/reseaux-d-experimentation-et-de-demonstration/stations-d-experimentation/44-derval/>

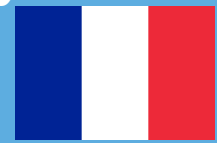
LINK WITH ED'S MAIN TOPICS

- 

 Methanization
- 
 Milking equipments and milk quality
- 
 Cost of milking facilities <http://www.agri44.fr/V4/loire-atlantique-la-ferme-de-derval-a-realise-une-etude-sur-les-cots-de-fonctionnement-des-installations-de-traite-actualite-numero-7899.php>
- 

 To maintain a high level of animal productivity with a low impact on environment
- 
 Production of forage in dry condition



Derval

France
Pays de la Loire



SITE CHARACTERISTICS

Soil: Silt on schist
Precipitations: 750 mm per year
Climate: Oceanic
Altitude: 53m asl

FARM CHARACTERISTICS

Total area (ha): 105 (55 grass, 35 maize, 15 wheat)
Crop rotation : Grass-Maize-Wheat
Milking cows: 85 Holstein
Young stock: 70 Heifers 0 Calves
Bulls: 0
Production intensity: 8,500 kg milk per cow per yr (150g of concentrate per L)
Grazed area (ha per cow): 0.25
Grazing period: 01/03 – 30/06 + autumn if grass regrowth
Grazing hours per day: 15
Workers: 2

SPECIAL EQUIPMENT

- ICAR official milking laboratory (Idele)
- Milking robot

FACILITIES

- Meeting room (80 people)

EDUCATION CAPABILITIES

- Dairy specialization certificate (initial education)
- Visits of groups of dairy farmers and advisers
- Farmer visits
- "Open doors" technical days

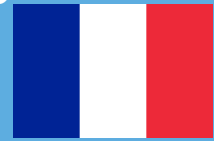
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
Rédaction : V Gotti, Institut de l'Élevage - Crédit photo : Idele - Réalisation : S. Dauphin (Institut de l'Élevage) - Réf : 00 18 302 002 - Décembre 2018



Address: Ferme expérimentale des Trinottières, la Futaie, 49140 Montreuil sur Loir – France

Contact: Jean-Michel Lamy +33241766022 ; jean-michel.lamy@maine-et-loire.chambagri.fr

LINK WITH ED'S MAIN TOPICS

-   Toasting effect of bean beans on milking cows' diet (SOS Protein Project)
-   Comparison of 3 contrasting diets on CH₄ emissions from calving to 6 months of lactation
-   Calves and heifers: a milky plan that saves working time (6 drinks per week with whole milk or calf food).

SITE CHARACTERISTICS

Soil: Clay Loam

Precipitations: 700mm per year

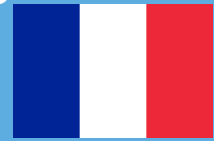
Climate: Oceanic

Altitude: 30m asl



Les Trinottières

France
Pays de la Loire



FARM CHARACTERISTICS

Total area (ha): 184
Crop rotation: Grass-Maize-Wheat
Milking cows: 120 (Holstein)
Young stock: 60 Heifers 60 Calves
Bulls: 0
Production intensity: 9,000 kg milk per cow per year
Workers: 15.5 (with pig unit)

SPECIAL EQUIPMENT

- Milking parlour
- Automatic weighing feeders
- Individual feeding troughs
- For GHG emissions, 2 Greenfeed boxes

FACILITIES

- Housing
- Well-equipped offices
- Meeting room (25 people)

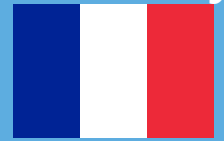
EDUCATION CAPABILITIES

- Visits
- "Open doors" technical days
- The experimental farm is also hosting a training center for dairy husbandry and pig production

More details on: www.eurodairy.eu
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Address: Ferme expérimentale de Normandie - La Blanche Maison 50880 Pont Hébert - FRANCE

Contact: Laurent Clarys - laurent.clarys@normandie.chambagri.fr

Website: <http://www.chambre-agriculture-normandie.fr/ferme-experimentale-de-la-blanche-maison/>

Also on Facebook: <https://www.facebook.com/La-Blanche-Maison-ferme-exp%C3%A9rimentale-normande-1703574969860200/>

LINK WITH ED'S MAIN TOPICS :

-   Low impact on environment
-   Mixed farming system in agroecology
-   Tests of several diets
-  Early calving of the heifers

SITE CHARACTERISTICS

Soil: Clay and Silt

Precipitations: 1,000 mm per year

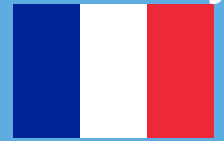
Climate: Oceanic

Altitude 30m asl



La Blanche Maison

France
Normandy



FARM CHARACTERISTICS

Total area (ha): 104
Crop rotation: Grass-Maize-Wheat
Milking cows: 90 (Normande)
Young stock: 30 Heifers 0 Calves (calves are for the meat workshop)
Bulls: 0
Production intensity: 7,000 kg milk per cow per yr
Grazed area (ha per cow): 0.29
Grazing period: 240 days per yr (Early March to late November)
Grazing hours/day: h24 except milking time
Workers: 5.5 + 2 apprentices

SPECIAL EQUIPMENT

- Platform for testing a crop system with semis direct sowing on permanent covered soils
- Digital agro platform
- Milking parlour and automatic feeder

FACILITIES

- 2 stables
- Meeting room

EDUCATION CAPABILITIES

- Visits
- Technical open doors' days
- Training sessions for advisers and farmers



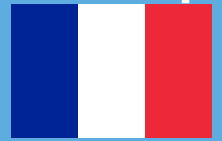
More details on: www.eurodairy.eu
Contact: Valérie Brocard (Institut de l'Élevage)
Valerie.brocard@idele.fr

Rédaction : V. Gotti, Institut de l'Élevage - Crédit photo : Idele - Réalisation : S. Dauphin (Institut de l'Élevage) - Réf : 00 18 302 002 - Décembre 2018



Centre d'élevage de Poisy

France
Rhône-Alpes






Address: Centre d'Elevage Lucien-Bizet, 845 Route de l'école d'agriculture, 74330 POISY - FRANCE

Contact: secretariat@elevage-poisy.org +334 50 46 20 13

Website: <http://www.elevage-poisy.org/>

LINK WITH ED'S MAIN TOPICS

-  Bushes implementations to improve shade's area and to reduce their carbon footprint
-  Protein self sufficiency
-  Less grass fertilization

Poisy's farm is a member of the regional Eurodairy Operational Group

SITE CHARACTERISTICS

Soil: Molasic basin

Precipitations: 1,000mm per year

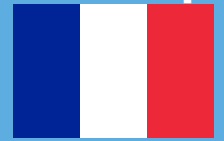
Climate: Mountain

Altitude: 400m asl



Centre d'élevage de Poisy

France
Rhône-Alpes



FARM CHARACTERISTICS

Total area (ha): 150
Crop rotation: Grass – Maize - Wheat
Milking cows: 87 (Friesian-Abondance-Montbeliarde)
Young stock: 30 Heifers 0 male Calves
Bulls: 0
Production intensity: 5,500 kg milk/cow/year
Grass area: 125 ha
Grazing period: 220 days/year

SPECIAL EQUIPMENT

- Solar panels

FACILITIES

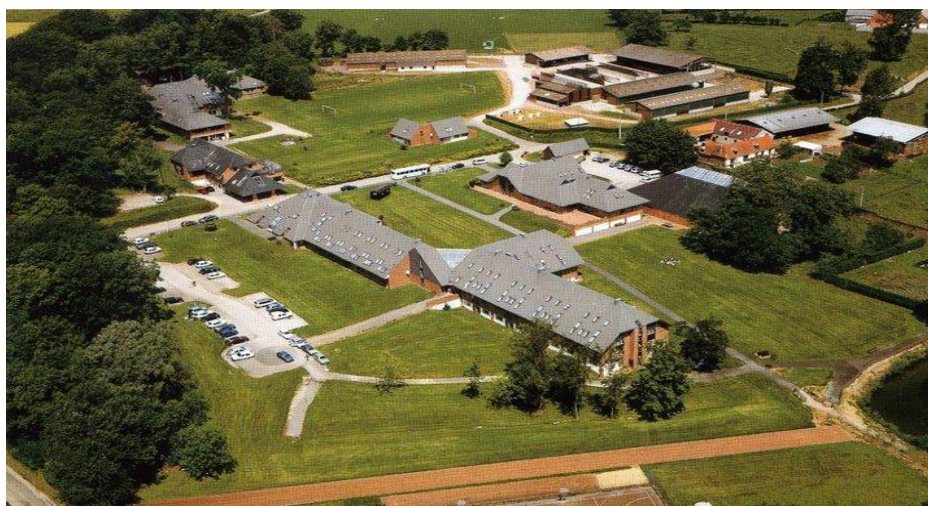
- Housing
- Training rooms

EDUCATION CAPABILITIES

- "Le Centre d'Élevage Lucien-Bizet" is a training center for cattle farming.
- Visits (farmers, teachers, advisers)
- Farming school

More details on: www.eurodairy.eu
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Valerie.brocard@idele.fr






Address: 58 rue principale, 62310 Radinghem - FRANCE

Contact: Frédéric Grattepanche frederic.grattepanche@educagri.fr Tel : +33615165347

Website: <http://legtaradinghem.blogspot.fr/>

LINK WITH ED'S MAIN TOPICS

- 
 Self-sufficiency: 1st cattle group fed in a conventional way, the 2nd one in total self-sufficiency. The results from the 1st year of experimentation are available and the experiment is still an ongoing project.

	1 st group	2 nd group
Winter ration	Maize silage, Grass silage, soybean meal	Maize silage (1/2), grass silage (1/2), grains, rape cake, flattened faba beans.
Summer ration	Same as winter ration + grazing access (0,09 ha/cow)	Grazing access 0.25 ha/cow, grass silage, grains, rape cake, flattened faba beans
Technical results	212 g concentrate/L milk 56% protein self-sufficiency	170 g concentrate/L milk 78% protein self-sufficiency
Economics	Concentrate cost/milking cow : 63€/1,000L Feeding cost : 120€/1,000L	45€/1,000l 96€/1,000l
Environmental	Carbon footprint: 0.93 kg eq CO ₂ / L milk	0.73 kg eq CO ₂ / L milk



France



Lycée de Radinghem

Hauts-de-France

SITE CHARACTERISTICS

Soil: Clay/chalk

Precipitations: 1,000-1,200 mm per yr

Climate: Oceanic

Altitude: 100m asl

FARM CHARACTERISTICS

Total area (ha): 130

Crop rotation: Maize-Wheat + Wheat-Rape-Faba (not fixed yet)

Milking cows: 80 (Holstein mainly, starting a 3 ways rotational breeding system: Holstein-Montbeliarde- Viking Red)

Young stock: 30 Heifers 30 Calves

Bulls: 0

Production intensity: 10,600 kg milk per cow per yr

Grazing hours: 1st group: 19h/day 2nd group: Free access

Grazing period: Mid-April - Mid-October

Grasslands: 75 ha

Permanent grasslands: 35 ha

Workers: 3

SPECIAL EQUIPMENT

- Automatic feeder
- Wide milking parlour 2*8 (for students)

FACILITIES

- 2 stables

EDUCATION CAPABILITIES

- Agricultural school with several diplomas delivered
- Classrooms
- Discussion groups of farmers

More details on: www.eurodairy.eu
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Address: Bäderstraße 31, D-24214 Lindhöft - GERMANY

Contact: Sabine Mues lindhof@email.uni-kiel.de Tel: +4943464326

Website: <https://www.lindhof.uni-kiel.de/>

LINK WITH ED'S MAIN TOPICS

-   Reintroduction of grazing for dairy cows on a mixed farm in Northern Germany: Webinar in English (<https://youtu.be/6efniBdt3tw>)
-   Eco-efficient milk production inspired by the Irish rotational grazing system – first results from the Lindhof-Project in Northern Germany:
<https://www.deere.co.uk/en/magazines/publication.html?id=f439f839#1> In this Web-magazine: Cover picture and cover story are from Lindhof/ This magazine is translated to many different European languages.

SITE CHARACTERISTICS

Soil: sandy loam and loamy sand
Precipitations: 785 mm per year
Climate: Oceanic
Altitude: 15 to 25 m over sea-level

FARM CHARACTERISTICS (ORGANIC PARTS PRECISED)

Total area (ha): 159.3
Crop rotation: Grass-Oats-Potatoes/Winter triticale-Winter spelt or Grass-Oats-Winter triticale-Grain legumes-Winter spelt
Milking cows: 95 (80% Jersey and 20% Jersey-Holstein Crossbreeds)
Young stock: 50 Heifers 15 Calves
Bulls: 1 Jersey and 2 Angus
Production intensity: Organic, low-input, self-sufficiency combined with an intensive rotational grazing system
Grazing hours: 3h to 21h depending on the weather
Grazing period: 1st of March – 1st of November
Grasslands: 90.3 ha
Permanent grasslands: 47.4 ha
Workers: 2

SPECIAL EQUIPMENTS

- Modern deep-litter (straw) barn
- 2 x 8 milking parlour, with automatic registration of milk yield and animal weight and heat-time management.
- Complete machinery for plot experiments on forage and cereal production.
- A basic laboratory with drying and freezing capacities

FACILITIES

- Several field experiments on forage production, 2 long-term- field experiments
- Experiment 1 with focus on permanent grassland (Factors: a) sward age and b) fertilization)
- Experiment 2 with focus on different crop rotations (Factors: a) farm type and b) fertilization)

EDUCATION CAPABILITIES

- 2 Seminar/classrooms: Introduction to intensive rotational grazing-systems based on plate-meter readings and Optimal grass/clover management for different purposes (grazing/silage/green manure)
- Besides of mixed dairy-farming Lindhof is specialized to teach groups of school-classes and children to supply basic knowledge on farming

More details on: www.eurodairy.eu

Contact: Valérie Brocard (Institut de l'Élevage)

Valerie.brocard@idele.fr





Training and research center Futterkamp

Germany



Address: Lehr- und Versuchszentrum Futterkamp Gutshof D-24327 Blekendorf - GERMANY

Contact: lvz-fuka@lksh.de Tel: 04381-9009-0

Website: <https://www.lksh.de/landwirtschaft/tier/lvz-futterkamp/>

More details on: www.eurodairy.eu

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Valerie.brocard@idele.fr



Rédaction : V. Gotti, Institut de l'Élevage - **Crédit photo :** Idele - **Réalisation :** S. Dauphin (Institut de l'Élevage) - **Réf :** 00 18 302 002 - Décembre 2018



Germany

Versuchsbetrieb Karkendamm





Address: Karkendam 24567 Bimöhlen - GERMANY

Contact: karkendamm@tierzucht.uni-kiel.de

Website: <https://www.agrar.uni-kiel.de/de/einrichtungen/einrichtungen/einrichtungen-der-agrar-und-ernaehrungswissenschaftlichen-fakultaet-1/versuchsgut-karkendamm>

LINK WITH ED'S MAIN TOPICS

-   Forage production with optimal use of nitrogen
- Performance control of young cows with automatic milking system
- Milking capacity and udder health
- Management tools for cattle husbandry

FARM CHARACTERISTICS (ORGANIC PARTS SPECIFIED)

Milking cows: 160 dairy cows (Holstein)



More details on: www.eurodairy.eu
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Experimental farm for organic farming Trenthorst

Germany



Address: Trenthorst 32 DE-23847 Westerau - GERMANY

Contact: kerstin.barth@thuenen.de Tel: +49 4539 8880-312

Website: <https://www.thuenen.de/de/ol/versuchseinrichtungen/versuchsbetrieb/>

More details on: www.eurodairy.eu
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Rédaction : V Gotti, Institut de l'Élevage - **Crédit photo :** Idele - **Réalisation :** S. Dauphin (Institut de l'Élevage) - **Réf :** 00 18 302 002 - Décembre 2018






Address: Animal and Grassland Research an Innovation Centre, Teagasc Moorepark, Fermoy, Cork - IRELAND

Contact: Michael Egan Michael.Egan@Teagasc.ie

Website: <https://www.teagasc.ie/contact/offices/moorepark-teagasc-food-research-centre/>

LINK WITH THE ED'S MAIN TOPICS

-   Increasing grassland production and quality for grazing dairy cows through the grass grazing season through differing grazing management.
-  Labour management

SITE CHARACTERISTICS

Soil: Free-draining acid brown earth of sandy loam to loam in texture

Precipitations: 1,050 mm per yr

Climate: Temperate Oceanic

Altitude: 40m asl

FARM CHARACTERISTICS

Total area (ha): 100

Crop rotation: Grassland only

Milking cows: 300 (Holstein, Jersey, Holstein*Jersey crossbreds)

Young stock: 100 Heifers 100 Calves

Bulls: 10

Production intensity: 450 kg MilkSolids per cow

Grazing hours: h24 except milking time

Grazing period: Early February-Late November

Grasslands: 100 ha

Permanent grasslands: 100 ha

Workers: 7 WU

SPECIAL EQUIPMENTS

- Automatic feeder
- Milking robot

FACILITIES

- Nutrition shed
- Housing

EDUCATION CAPABILITIES

- Discussion groups on a continuous basis
- Open Days every two years with between 12,000 to 15,000 visitors
- Education courses for degree students and trainee farm managers



More details on: www.eurodairy.eu
Contact: Valérie Brocard (Institut de l'Élevage)
Valerie.brocard@idele.fr






Address: Dairygold farm Teagasc, Moorepark, Fermoy, Cork - IRELAND

Contact: Frank Buckley Frank.Buckley@Teagasc.ie

Website: <https://www.teagasc.ie/animals/dairy/research-farms/dairygold/>

LINK WITH THE ED'S MAIN TOPICS

-   Evaluating the effect of genetic selection for profitability on the performance of dairy cows in the context of production, sustainability and economic performance.
-  Labour management

SITE CHARACTERISTICS

Soil: Free-draining acid brown earth of sandy loam to loam in texture

Precipitations: 1,050 mm/yr

Climate: Temperate Oceanic

Altitude: 40m asl



FARM CHARACTERISTICS

Total area (ha): 100
Crop rotation: Grassland only
Milking cows: 250 (Holstein, Jersey)
Young stock: 120 Heifers 120 Calves
Bulls: 30
Production intensity: 480 kg MilkSolids per cow
Grazing hours: h24 except milking time
Grazing period: Early February-Late November
Grasslands: 100 ha
Permanent grasslands: 100 ha
Workers: 4

SPECIAL EQUIPMENTS

- Automatic feeder
- Milking robot

FACILITIES

- Nutrition shed
- Housing

EDUCATION CAPABILITIES

- Discussion groups on a continuous basis
- Education courses for degree students and trainee farm managers

More details on: www.eurodairy.eu
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Valerie.brocard@idele.fr






Address: Wisentweg 13C, 8251 PB Dronten -THE NETHERLANDS

Contact: Jan Bloemert Tel : +31 637 457 388

Website: <https://www.aeresfarms.nl/landbouwbedrijf> also on Facebook and Twitter

This KTC has 2 dairy herds : Wedestal (W) and Flevostal (F)

LINK WITH ED'S MAIN TOPICS

-  Animal nutrition (F)
-  Self sufficiency (W)
-  New technologies in farming (F)



SITE CHARACTERISTICS

Soil: Heavy clay with drainage every 12m
Precipitations: 830 mm per yr
Climate: Oceanic
Altitude: -1m

FARM CHARACTERISTICS

Grassland (ha): 40 Organic (W) + 59 (F)
Crop rotation: Grass-Maize (F)
Milking cows: 60 Organic (W) 120 (F)
Production intensity: 8,000 kg per cow per yr organic (W) + 10,000 kg per cow per yr (F)
Grazing period: Mid-March-November (W)

SPECIAL EQUIPMENT

- Shares on 9 wind turbines
- Irrigation facility
- 2 milking parlours

FACILITIES

- 2 Meeting rooms (30-40 persons) with beamer and Internet
- Student House

EDUCATION CAPABILITIES

- Training courses
- (Field) excursions
- Training sessions
- External presentations
- Lectures for students

More details on: www.eurodairy.eu
Contact: Valérie Brocard (Institut de l'Élevage)
Valerie.brocard@idele.fr











Address: Roessinkweg 2, 7255 PC Hengelo - THE NETHERLANDS

Contact: DZ (Zwier) van der Vegte (Manager KTC De Marke) Tel : +31 575 467 323

Website: <http://www.wur.nl/nl/Expertises-Dienstverlening/Onderzoeksinstituten/livestock-research/Innovatiecentra-en-faciliteiten/de-marke.htm>

LINK WITH ED'S MAIN TOPICS

-  5 km long public footpath through the fields
-  Grass under maize as a catch crop
-  Slurry application on the maize row
-  Veris scan: NIRS analyser on soil pH, organic matter content and structure
-  Nitrate in cow's ration
-  Solar panels: possibility to refile batteries for free
-  On farm anaerobic digesters
-  W3 floor: urine separated directly after the dropping



SITE CHARACTERISTICS

Soil: light sandy soil
Precipitations: 830 mm per year
Climate: oceanic
Altitude: 12 m asl

FARM CHARACTERISTICS

Total area (ha): 55
Crop rotation: Grass-Clover-Maize
Milking cows: 80 (Holstein Friesian)
Young stock: 48 Heifers 0 Calves
Bulls: 0
Production intensity: 8,750 kg milk per cow per yr (conventional)
Grazing hours: 6 per day
Grazing period: April - September

SPECIAL EQUIPMENT

- Automated milking system
- Manure (slurry) fermentation
- Bio-gas delivery to national gas distribution system
- (fermented) Slurry separation (into liquid and solid fractions)
- Large silage storage capacity
- Large slurry storage capacity (10 months)
- Storage capacity for home grown concentrate feed
- 45 solar panels
- Irrigation facility

FACILITIES

- Meeting room (max. 80 persons) with beamer and Internet
- Well-equipped office

EDUCATION CAPABILITIES

- Training courses
- (Field) excursions
- Training sessions
- External presentations
- Lectures for students

More details on: www.eurodairy.eu
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Address: Boksumerdyk 11, 9084 AA Leeuwarden - THE NETHERLANDS

Contact: Kees de Koning kees.dekoning@wur.nl Tel: +31 (0)317 483039 Mobile: +31653672108

Website: <http://www.wur.nl/nl/Expertises-Dienstverlening/Onderzoeksinstituten/livestock-research/Innovatiecentra-en-faciliteiten/de-marke.htm>

LINK WITH ED'S MAIN TOPICS

-   Wastewater treatment plant with Biogas production
-   Biomass calculations and animal behavior via drones' data
-   Research on the whole dairy chain: from grass to glass
-  Improve the lifetime of cows by giving extra care during the 1st 40 days of the calves
-  New floors concepts: soft floor to let the urine pass and cleaning robot in the stable
-  Grazing experiments: New technologies on virtual fences with cow collars and virtual delimitation of the paddock
-  Oxygen input in the manure storage to decrease the ammonia rate



SITE CHARACTERISTICS

Soil: Heavy clay soil
Precipitations: 763 mm/year
Climate: Oceanic
Altitude: 5m asl

FARM CHARACTERISTICS

Total area (ha): 350
Milking cows: 550 (Holstein Friesian)
Young stock: outsourced rearing after 40 days
Production intensity: 9,500 kg per cow per year
Grassland and pasture: 276 ha
Grazing period: April – October
Workers: 20 (15 on the farm, 5 in the administrative management)

SPECIAL EQUIPMENT

- Practical training shed housing 180 cows with automated milking system
- Manure fermenter owned by Biogas Leeuwarden
- Feeding house for 128 cows on a low emission floor with robotic feeding system
- Two Innoflex sheds for cubicle or freewalk shed equipment experimentation (60 cows)
- Physiological research facility
- Gas emissions measuring unit for various flooring systems assessment
- 40-stall external rotary milking platform
- Transition house for 45 cows on both synthetic and straw bedding
- 3 fistulated cows
- 6 barns for different experimentations.

FACILITIES

- 2 Meeting rooms (max. 40 and 100 persons) with beamer and Wi-Fi
- Training classrooms
- Forage laboratory

EDUCATION CAPABILITIES

- Training courses
- (Field) excursions
- Guided tour (20,000 visitors per year)
- External presentations

More details on: www.eurodairy.eu
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Valerie.brocard@idele.fr



Address: CENTRAL OFFICE 05-840 Brwinów ul. Pszczelińska 99 – POLAND

Contact: sekretariat@cdr.gov.pl ; i.obojska@cdr.gov.pl **Main office:** tel. +48-22-729-66-34 to 38

Secretary office: +48-22-729-59-37

Fax: +48-22-729-72-91 **Website:** <http://www.cdr.gov.pl/en>

LINK WITH ED'S MAIN TOPICS

The Agricultural Advisory Centre in Brwinów, with Branch Offices in Kraków, Poznań and Radom, is a government institution subordinated to the Ministry of Agriculture and Rural Development. The Centre is an operator that cooperates with agricultural advisory organizations, government and self-government administration institutions, professional associations, research and development units, as well as other entities working for the development of agriculture and rural areas in Poland. The purpose of current activities is the improvement of knowledge and qualifications of advisory staff as well as increase and unification of standards of services provided by advisers for farmers and other rural dwellers.



- Resource efficiency, dairy cattle feeding
- Method of grassland renovation

SITE CHARACTERISTICS

Central Part of Poland, 40 km south from Warsaw

Soil: mineral, low quality, dry and acid soils

Precipitations: 450 mm per year

Climate: moderate, continental



FARM CHARACTERISTICS

Grasslands: No own farm but close cooperation with Experimental Farm Obory –Wilanów of WULS (Warsaw University of Life Sciences)
Conventional grasslands: 1038 ha
Organic grasslands: 98 ha
Milking cows: 360 (Holstein Friesian)
Young stock: 90 Heifers
Bulls: 1
Production intensity 9,000 kg milk per cow per year
Grazing hours: zero grazing
Plant production (potatoes for chips), milk production, vegetable and fruit production
Workers: 25 + students
KTC Workers: the team of 200 devoted employees – experts, consultants, advisers, facilitators, officers and managers.

SPECIAL EQUIPMENT

- Milking robot
- Feeding boxes
- Metabolism boxes for cattle

FACILITIES

- Modern training facilities and hotels in all branch office of the Centre

EDUCATION CAPABILITIES

Specialised training courses and examinations for agricultural, environmental advisers and wildlife experts enabling them to obtain specific qualifications and following certificates in order to provide services to farmers willing to benefit from the measures of the Rural Development Programme.

- Research and experimental works, students training and practical demonstration for students and farmers and advisers
- The Practical Training Centre for Small Food Processing, in which we train advisers and farmers to process, add value and market agricultural produce from farm to customer.
- The Ecological Demonstration Farm, which is the experimental and development unit for practical training in organic farming.

More details on: www.eurodairy.eu
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Contact: Joxe Javier Ormazabal Phone : 943 69 21 62 jjormazabal@fraisoroeskola.net
Website: <http://fraisoroeskola.eus/es/>

INNOVATIVE PROJECT

- Milk transformation into cheese
- Low-feeding cost
- Production of forage

LINK WITH ED'S MAIN TOPICS

-  Resource efficiency: Low-feeding cost based on grass
-  Socio-Economic Resilience: Milk transformation in their cheese factory

SITE CHARACTERISTICS

Soil:
Precipitations: 1,600 mm per year
Climate: Oceanic
Altitude: 200m asl

FARM CHARACTERISTICS

Total area (ha): 22
Crop rotation: Grass
Milking cows: 30 (Friesian and Brown Swiss)
Young stock: 20 Heifers 20 Calves
Bulls: 0
Production intensity: 6,500 kg milk per cow per year
Grazed area: 0
Grazing period: 0 d
Workers: 2 + 2 if help needed

SPECIAL EQUIPMENT

- Cheese factory
- Automatic milking robot
- Unifeed mixer
- For methane emissions, 2 sniffers and 1 laser

FACILITIES

- Meeting room
- Classrooms
- Labs

EDUCATION CAPABILITIES

- Farming school
- Focused specialized training sessions for farmers (on inseminations or sampling for milk quality)

KNOWLEDGE EXCHANGE ACTIVITIES WITH FARMERS

- Cross visits
- Around 100 specialized lessons proposed to them

DECISION SUPPORT TOOLS

- Group discussions between teachers and researchers

More details on: www.eurodairy.eu
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Address: Centro de investigaciones Agrarias de Mabegondo (CIAM) – Estrada Betanzos ao Mesón do Vento, km 7 – 15310 Abegondo, A Coruña - SPAIN

Contact: César Resch Zafra – cesar.resch.zafra@xunta.gal - +34 881 881 811

Website: <http://www.ciam.gal/sp/index/?r=portada.index>

LINK WITH ED'S MAIN TOPICS

- 

 Dairy diets and milk quality: improvement of the fatty acids' and protein rates in the milk with the inclusion of vegetables in the cow feeding.
- 
 Manure management in milk cow production systems of the Cantabrian Cornice. Slurry injection techniques, nitrification inhibitors.
- 
 From the farm to the territory: efficiency of the use of nutrients, mitigation of greenhouse gases and reduction of the carbon footprint.
- 
 Digestibility and GHGs emissions with feeding boxes (for cow) and metabolism boxes (for sheep) with three diets (vegetables, sorghum, and grass (grazed + grass silage during the winter)).
- 
 Propagation of innovations for a more resistant dairy production in the Atlantic area; robust and resilient dairy systems

SITE CHARACTERISTICS

Soil: Humic cambisol
 Precipitations: 1,200 mm/year
 Climate: Oceanic
 Altitude: 100m



FARM CHARACTERISTICS

Total area (ha): 100

Crop rotation: Meadow (several yrs)/ corn (spring-summer). Ryegrass, ryegrass with legumes (autumn-winter)/corn, sorghum or sunflowers (spring-summer)

Milking cows: 120 (Holstein Friesian)

Young stock: 45 Heifers 15 Calves

Bulls: 1

Production intensity: 8,000-8,500 kg milk per cow per yr

Grazing hours: 10-12 hours per day

Grazing period: March-July + October-December

Workers: 12 (part-time)

SPECIAL EQUIPMENT

- Milking parlour
- Feeding boxes
- Automatic weighing feeders
- injector (open slot), deep injector, slurry tankers

FACILITIES

- Soil and GHG laboratory
- Digestibility and forage lab
- Stables, silos, straw storage

EDUCATION CAPABILITIES

- Large meeting room + classroom
- Open doors technical days
- Local TV interventions
- Articles in agricultural magazines
- Leaflets, books
- Visits (advisers, farmers, students)

More details on: www.eurodairy.eu
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Website: <https://www.lantmannenlantbruk.se/notcenterviken>


LINK WITH ED'S MAIN TOPICS

Nötcenter Viken is Lantmännen Lantbruk dairy research farm for feeding trials with forages and complementary feed in a high-yielding dairy cow herd. Using top- of the line technique and equipment, complementary feed and forages can be developed that meet future requirements. Forage feeding strategies are tested in a holistic perspective and demonstration plots of mixtures and monocultures of forage grass and legume varieties and cultivars from Lantmännen SW Seed AB are located on the farm.

- 

● Improving feed efficiency of high-producing dairy cows by improved knowledge of fibre and protein quality of forage varieties to be complemented with concentrate for a well-balanced diet.
- 

● Byskov, M.V., Nadeau, E., Johansson, B.E.O., Nørgaard, P. 2015. **Variations in automatically recorded rumination time as explained by variations in intake of dietary fractions and milk production, and between-cow variation.** Journal of Dairy Science 98, 3926-3937.
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● Nadeau, E., Johansson, B., Richardt, W., Murphy, M. 2015. **Protein quality of grass silage as affected by silage additives and its effects on dairy cow performance.** J. Anim. Sci. Vol. 93, Suppl. s3/J. Dairy Sci. Vol. 98, Suppl. 2
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● Nadeau, E., Johansson, B., Richardt, W., Murphy, M. and Auerbach, H. 2014. **Protein quality of grass silage and its effects on dairy cow performance.** Proc. Aust. Soc. Anim. Prod. Vol. 30, pp. 210. Joint ISNH/ISRP, September 8-12, Canberra, Australia.



SITE CHARACTERISTICS

Soil: High organic matter content, loam

Precipitations: 700 mm per yr

Climate: Temperate continental climate / Humid continental climate

Altitude: 218m

FARM CHARACTERISTICS (ONLY FORAGE CENTER)

Total area (ha): 492 ha

Crop rotation: 3 years of ley followed by 1 year of barley and 1 year of wheat

Milking cows: 440 (50% Holstein, 30% Red Vikings, 20% Montbéliarde X Jersey)

Young Stock: 265 Heifer 500 Calves

Bulls: 0

Production intensity: 11,300 kg ECM per cow and year

Grassland area: 292 ha

Permanent grasslands: 42 ha

Grazing period: Early May to mid-August

Grazing hours: free access h24

Workers: 10 full-time

SPECIAL EQUIPMENTS

- Biocontrol individual automatic feed scales for research projects with the dairy cows.
- Cow activity monitors for checking heat, automatic scale for registration of body weights of the cows

FACILITIES

- Dairy facility with milking carousel, individual transponder system, bunker silos, stationary mixer wagons, feed wagons etc.
- A modern stable for housing of heifers from 3 months of age. Calves in individual pens for 16 days before moved to group pens (igloos) in outdoor facility until 80 days of age.

EDUCATION CAPABILITIES

- Presentation of the forage demonstration plots, of on-going and performed feeding trials with the dairy cows. Nötcenter Viken is open for other agricultural organisations to organize seminars and meetings with farmers and advisors.
- The farm manager have visits from pre-schools, elementary schools and high schools when the students learn about farming.
- Meetings and courses to increase the competence for advisors and farmers.

More details on: www.eurodairy.eu

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Contact: Elisabet Nadeau: elisabet.nadeau@slu.se Tel: +46 (0)511 67142

Website: <http://hushallningssallskapet.se/forsok/>

LINK WITH ED'S MAIN TOPICS

- 
 • Efficient use of resources, feed autonomy: protein quality of forages (grass silages, Lucerne, clover):
- Nadeau, E., Murphy, M and Nørgaard, P. 2017. **Fibre quality of grass silages and its effects on ruminant performance. Proceedings of the V International Symposium on Forage Quality and Conservation.** Nussio, L.G., de Sousa, D.O., Gritti, V.C., de Souza Salvati, G.G., dos Santos, W.P., Salvo, P.A.R. (Eds.). November 16-18, Piracicaba, SP, Brazil. pp. 41-73. Escola Superiorde Agricultura Luiz de Queiroz – ESALQ.
- 
 • Nadeau, E., Richardt, W. and Nørgaard, P. 2016b. **Fibre and protein quality of silages and their effects on ruminant performance. Proceedings of the 17th International Conference on Forage Conservation,** Horný Smokovec, Slovak Republic, September 27-29. L. Rajčáková (Ed.) pp. 39-53.
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 • Nadeau, E., Hallin, O., Richardt, W. and Jansson, J. 2016. **Protein quality of lucerne – a comparison to red clover and effects of wilting and ensiling.** Grassland Science in Europe 21, 372-375.
- 
 • Nadeau, E., Hallin, O., Richardt, W. and Murphy, M. 2016. **Protein quality of forages for ruminants. 19th Nitrogen workshop: Efficient use of different sources of nitrogen in agriculture – from theory to practice.** 27-29 June, Skara, Sweden. Abstracts pp. 185-186.



SITE CHARACTERISTICS

Soil: Sandy loam

Precipitations: 900 mm per yr

Climate: Temperate continental climate / Humid continental climate

FARM CHARACTERISTICS (ONLY FOR FORAGE CENTRE)

Grasslands: 70 ha

Conventional grasslands: 20 ha

Organic grasslands: 50ha

Semi-natural grasslands: 55 ha

Workers: 4

SPECIAL EQUIPMENT

- None

FACILITIES

- None for dairy cows (only forage center)

EDUCATION CAPABILITIES

- Courses for technicians and farm advisors in grading of forage development and persistency.
- Farmer meetings in the field where the forage trials and their results are presented.
- Seminars and workshops with farmers where the experiences from farmers are translated into new experiments which result in applicable results for the farmers to use.

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Wales (UK)

Gelli Aur






Address: Golden Grove, Carmarthen, SA32 8NJ – WALES (UK)

Contact: Siwan Howatson - Siwan.howatson@ahdb.org.uk

Website: <http://www.ddc-wales.co.uk/resources/>

LINK WITH ED'S MAIN TOPICS

-  BVD eradication scheme
-  Prosiect Slurry Project <https://fr-fr.facebook.com/prosiectslurryproject/>
-  Improving the Welsh Dairy Supply Chain <http://www.ddc-wales.co.uk/about/>



Wales (UK)

Gelli Aur



SITE CHARACTERISTICS

Soil: Alluvial loam
Precipitations: 1,100 mm per year
Climate: Mild and High rainfall
Altitude: 20m asl

FARM CHARACTERISTICS

Total area (ha): 211
Crop rotation: Grass Only
Milking cows: 550 (Cross-breds)
Young stock: 250 Heifers 80 Calves
Bulls: 6
Production intensity: Extensive
Grazed area (ha per cow): 1.6
Grazing period: February-November
Workers: 5

SPECIAL EQUIPMENT

- Self-feeding barriers

FACILITIES

- Housing
- Grazing

EDUCATION CAPABILITIES

- Visits
- Workshops
- Projects
- Full and part time continuing and higher education

More details on: www.eurodairy.eu

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Address: SRUC Crichton Royal Farm, Glencaple Road, Dumfries DG1 4AS, Scotland.

Contact: Siwan Howatson Siwan.Howatson@ahdb.org.uk

Website: https://www.sruc.ac.uk/info/120195/dairy_research_centre

LINK WITH ED MAIN TOPICS

- https://www.sruc.ac.uk/homepage/1066/dairy_research_centre_projects
-  Dairy cow and young-stock nutrition
-  Energy use and greenhouse gas emissions
-  Examination of soil compaction
-  Nutrient profile
-  Precision farming
-  Controlled traffic



SITE CHARACTERISTICS

Soil: Mainly a sandy loam but with some silty clay loam and alluvial soils (all soils Gleyic Cambisols)
Precipitations: 1,200 mm per yr
Climate: Oceanic/Temperate
Altitude: 0-40m asl

FARM CHARACTERISTICS

Total area (ha): 300
Crop rotation: Grass for grazing and conservation, winter wheat, forage maize, winter barley.
Milking cows: 430 (Holstein Friesian)
Young stock: 125 Heifers 165 Calves
Bulls: 55 (<100 days)
Production intensity: 9,500 kg milk per cow per yr
Grassland area: 180 ha
Grazing period: Few cows grazing currently, due research demand
Grazing hours per day: Normally up to 16 hours (2x8hr windows) and housed at night
Workers: 3 Full Time and 7 part time (night milkers)

SPECIAL EQUIPMENT

- Robotic milking systems

FACILITIES

- All milking cows cubicle housed
- Far off dry cows cubicle housed and calving cows on straw.
- 1 x 28 x28 herringbone milking parlour and 1 x 24 x 24 herringbone milking parlour.
- Small herd of robotically milked cows.

EDUCATION CAPABILITIES

- Planned subject days with trade involvement
- Farmers visits, consultants and farmers groups.
- Undergraduate and post graduate student visits and projects.
- Research facility for undergraduate and post graduate students, with teaching in a higher education campus within 10 miles.
- Regular visits from local school children with a purposely altered room for education visits.

More details on: www.eurodairy.eu
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Duchy College

England
(UK)



Address: Duchy College Rosewarne, Camborne, Cornwall, TR14 0AB – UK

Contact: -

Website: <https://www.duchy.ac.uk/>

SITE CHARACTERISTICS

Soil: Free draining medium loam

Precipitations: 1,500 mm/year

Climate: Mild and wet

Altitude: 150m asl



Duchy College

England
(UK)



FARM CHARACTERISTICS

Crop rotation: Grass/winter wheat/maize x 2/ winter wheat/spring barley/ grass

Milking cows: 260 (Holstein Friesian)

Young stock: 120 Heifers 40 Calves

Bulls: 0

Production intensity: High end of medium

Grazed area (ha per cow):

Grazing period: March-October

Workers: 3 (only on the dairy part)

SPECIAL EQUIPMENT

- None

FACILITIES

- Herringbone parlour
- Cubicles

EDUCATION CAPABILITIES

- Demonstration events
- Trials
- Host discussion groups and opens days
- Part of an educational establishment with a range of classroom and laboratory facilities plus specialist academic staff



More details on: www.eurodairy.eu
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Rédaction : V Gotti, Institut de l'Élevage - Crédit photo : Idele - Réalisation : S. Dauphin (Institut de l'Élevage) - Réf : 00 18 302 002 - Décembre 2018








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Website: <https://www.afbini.gov.uk>

LINK WITH ED'S MAIN TOPICS

-  Calf and heifer rearing to optimize lifetime performance
-   Optimum concentrate feed rates (winter 2017-18)
-  Alternative feeds in situations of silage shortage
-  Zero Grazing



Hillsborough

Northern Ireland

(UK)



SITE CHARACTERISTICS

Soil: Clay Loam
Precipitations: 900 mm/year
Climate: Oceanic
Altitude: 100m asl

FARM CHARACTERISTICS

Crop rotation: Grass Only
Milking cows: 320 (Friesian)
Young stock: 180 Heifers 0 Calves
Bulls: 0
Production intensity: 7,500 kg milk per cow per year
Grazed area (ha per cow): 1.40
Grazing period: Mid March-Mid October
Workers: 4

SPECIAL EQUIPMENT

- 50 points parlour
- 2 metabolism cow boxes
- Automatic weighing feeders for milking cows and heifers
- Anaerobic digester for slurry
- Biomass heating system
- Ability to measure nitrous oxide and P losses

FACILITIES

- Housing
- Well-equipped offices
- Conference hall (100 people)
- Meeting room (25 people)

EDUCATION CAPABILITIES

- Visits
- Leaflets

More details on: www.eurodairy.eu
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Contact: Martin Mulholland martin.mulholland@daera-ni.gov.uk

Website: <https://www.cafre.ac.uk/explore-cafre/greenmount>

LINK WITH ED'S MAIN TOPICS

-  2 different floors for a better evacuation of urine
-  Various diets tested
-  Feet washing

SITE CHARACTERISTICS

Soil: Humic gley on Alluvium
Precipitations: 2,000mm per year
Climate: Oceanic
Altitude: 70m asl



Northern Ireland
(UK)

CAFRE Greenmount



FARM CHARACTERISTICS

Total area (ha): 170 (36 organic)
Crop rotation: Grass Maize
Milking cows: 180 (Cross-bred)
Young stock: 100 Heifers 0 Calves
Bulls: 1
Production intensity: 8,000 kg per cow per year
Grazed area (ha per cow): 0.25
Grazing period: March-October
Workers: 3 (incl. students)

SPECIAL EQUIPMENT

- Self-feeding barriers
- A safe bull cubicle
- Floor and feet washing to clean cows and to evacuate quickly urine

FACILITIES

- Housing
- 35 points parlour

EDUCATION CAPABILITIES

- Visits
- Lectures for people from 16 to PhD
- Farmers surveys to transfer knowledge on the new technologies tested in CAFRE



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