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A Little Bit of Extra Effort Goes a Long Way

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Genomic selection requires an adjustment in breeding programme goal → Including new traits

 → *New phenotypes*
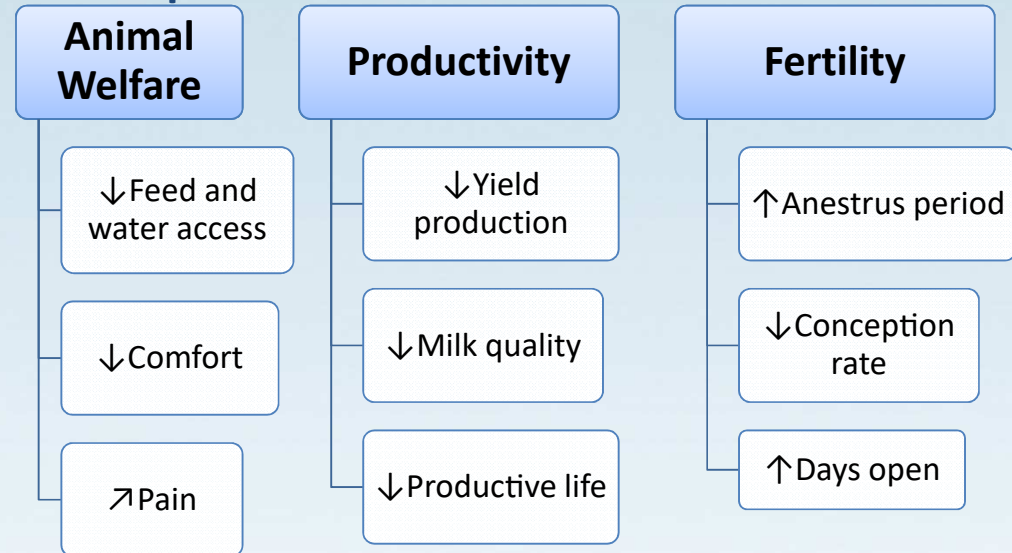
Health traits : Claw health traits

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Claw health problem is one of the main causes of involuntary culling in Spanish dairy herds

1.- Fertility

2.- Mastitis

3.- Claw lesions

Claw disorders are responsible for most lameness cases which compromise:

Animal Welfare	Productivity	Fertility
↓Feed and water access	↓Yield production	↑Anestrus period
↓Comfort	↓Milk quality	↓Conception rate
↗Pain	↓Productive life	↑Days open

Feet & legs type traits fail in improving claw health

Spanish Trimmers

Mainly private entrepreneurs: heterogeneous and without specific education

Two main private trimming companies

SERAGRO Sociedade Cooperativa Galega

12 Trimmers

ANKA Cuidado de Pezuñas

5 Trimmers

Pedro Codesido

Adrian Gonzalez

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In 2012 was launched the Spanish program for recording claw health data in order to prevent and to control lameness

- CONAFE provides:
  - A tactile PC-tablet
  - An electronic friendly application called DATPAT
  - An access to the national database
  - Herd reports and a
  - Training courses

Win-Win **Agreement**

- Trimmers should:
  - Register at least 2,000 records per year during trimming routine visits.

Recorded claw disorders

Seven claw disorders are recorded:

- Interdigital and digital dermatitis (DE)
- Sole ulcer (SU)
- White line disease (WL)
- Interdigital hyperplasia (IH)
- Interdigital phlegmon (IP)
- Concave dorsal wall (CD)
- Corkscrew claws (CC)

CD and CC are scored as true/false

The Scoring for each claw is as follows:
    0 : Absence
    1 : mild lesion
    2 : severe lesion

Evolution of Claw data

EHRC, Budapest (HUNGARY) 17-20 September 2017

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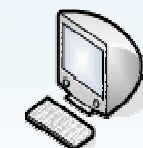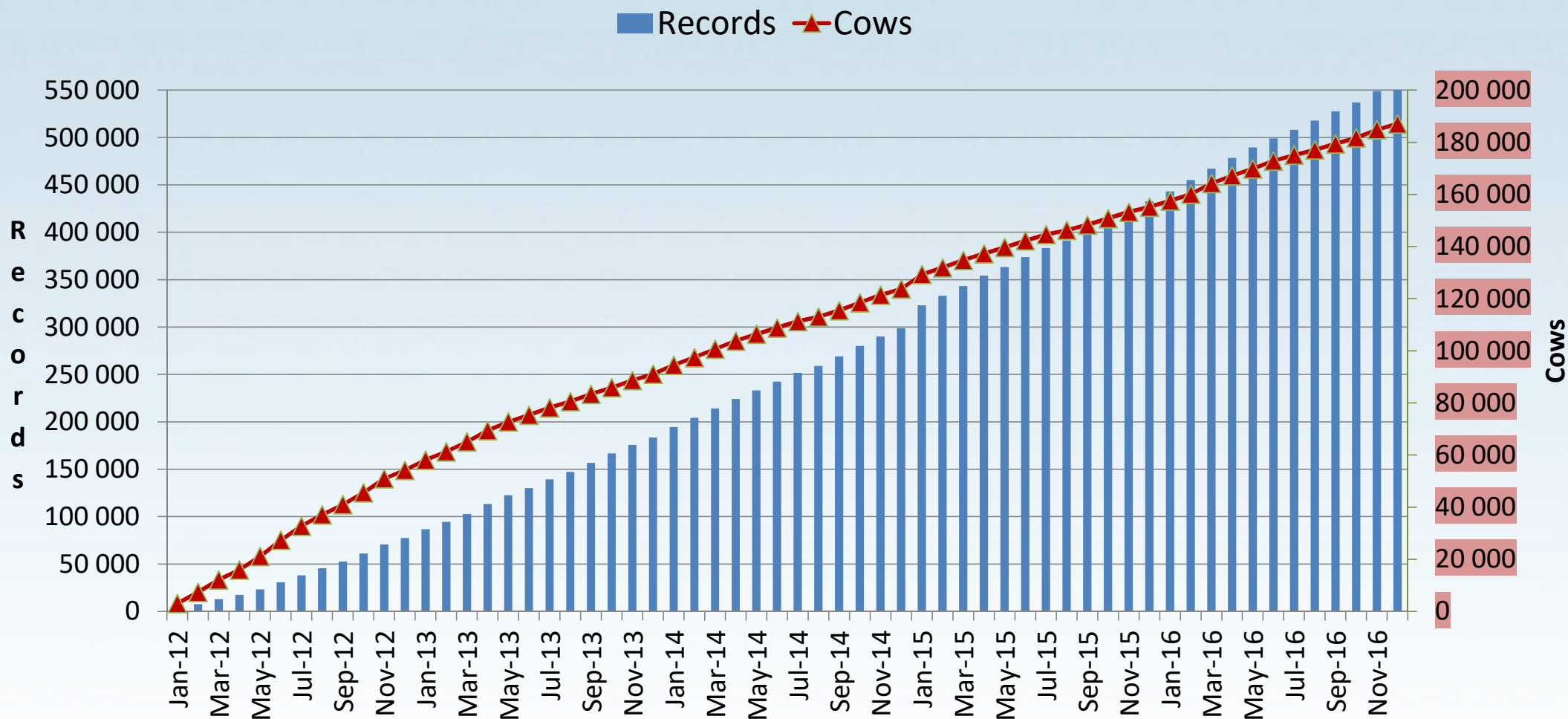
2017: 30 Trimmers are involved in data recording and more than 1800 herds have claw data

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Data should be:
- Complete and correct
- Fit for purpose use

We have taken an effort:
1- Documentation
2- Validation process
3- Monitoring

ICAR CLAW HEALTH ATLAS

International Committee for Animal Recording

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You are here: ICAR > PUBLICATIONS > Technical Series and Proceedings > Atlas claw health and translations

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Atlas claw health and translations

In May 2015, the first edition of the "ICAR Claw Health Atlas" was published within the ICAR Technical Series. The issue is identified by the following: ISSN: 92-95014-14-6 and ISBN: 92-95014-18

To date, seventeen translations have been produced. In details, the following ones have been published, while others are expected to be finalised in the next weeks:

- Arabic
- Chinese
- Croatian
- Czech and Slovak
- Danish
- French
- German
- Greek
- Hindi

ICAR CLAW HEALTH ATLAS

What's new
This page presents the main achievements and the latest news from ICAR: The call for two vacancies [...]

Read more...

ICAR Certifications
According to ICAR standards, ICAR certifies ear tags, RFIDs, milk meters and genetic laboratories. ICAR [...]

Read more...

ICAR Recording Guidelines

Document freely available for download:
https://www.icar.org/Documents/ICAR_Claw_Health_Atlas.pdf

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3- Monitoring

- **Statistical Monitoring**
- **Training Courses**

Herd management: I-SAP WEB

General statistics of trimmed cows

Cows with mild lesion
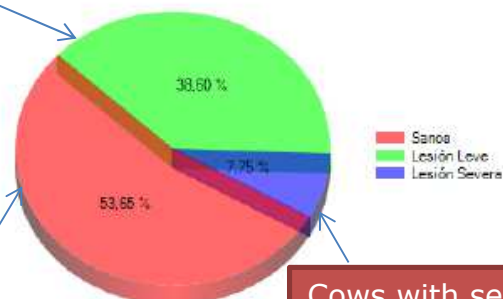
Cows with severe lesion

Cows without any disorder
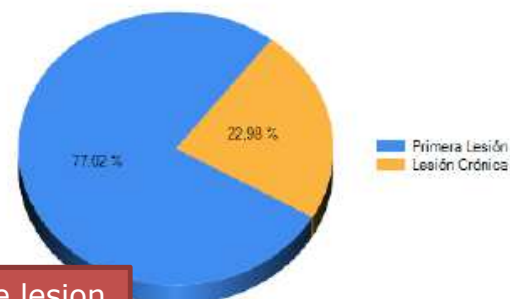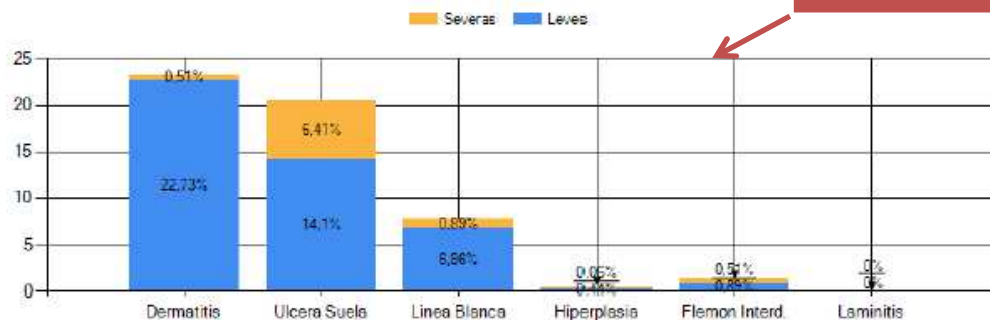
Prevalence of each disorder

Costs calculator

REPORT ON ECONOMIC LOSTS DUE TO CLAW DISORDERS ACCORDING TO THE FARM PREVALENCE RATE OF DERMATITIS, SOLE ULCER AND WHITE LINE DESEASE — GXXXXXX

MILD LESIONS

	€/cow	%
Direct costs	24,5 €	50,8%
Trimmer cost	8,1 €	16,7%
Treatment cost	13,7 €	28,4%
Extra labor cost	2,7 €	5,6%
Discarded milk	0,0 €	0,0%
Indirect costs	23,8 €	49,2%
Yield reduction	10,4 €	21,6%
Fertility deterioration	3,0 €	6,3%
Premature culling	10,3 €	21,4%
Average cost to mild lesions	**48,3 €**	

SEVERE LESIONS

	€/cow	%
Direct costs	10,5 €	54,8%
Trimmer cost	1,6 €	8,5%
Treatment cost	2,3 €	12,0%
Extra labor cost	1,4 €	7,1%
Discarded milk	5,2 €	27,3%
Indirect costs	8,7 €	45,2%
Yield reduction	3,9 €	20,5%
Fertility deterioration	1,0 €	5,3%
Premature culling	3,7 €	19,4%
Average cost due to severe lesions	**19,1 €**	

I-SAP (SALUD PODAL)

Ganadería Z — Cambiar
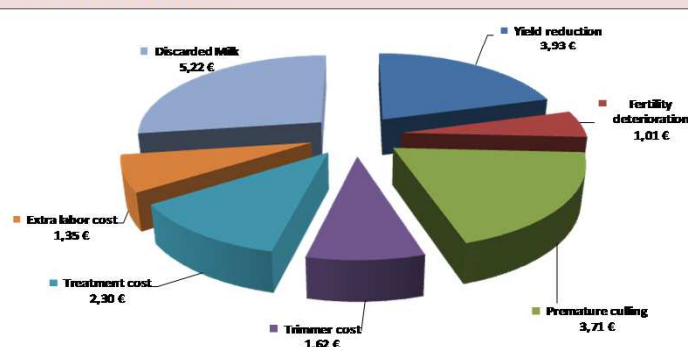
Ganadería | Animales | Estadísticas | Costes | Acerca de
Cálculo Costes

I-SAP

Programa de Salud Podal.
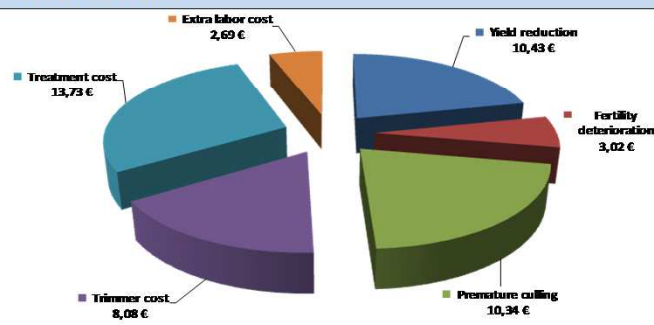
A report illustrating breakdown costs due to mild and severe lesions by present cow

Claw cost in average farm

Costs	€/cow	%
Direct costs	**26.4 €**	**56.3%**
Trimmer cost	7.4 €	15.8%
Treatment cost	12.2 €	26.1%
Extra labor cost	3.1 €	6.6%
Discarded milk	3.1 €	6.6%
Indirect costs	**20.5 €**	**43.7%**
Yield reduction	10.1 €	21.7%
Fertility deterioration	2.3 €	4.8%
Premature culling	8.1 €	17.2%
Total costs	**46.8 €**	

Average Farm	CD	Mild	Severe
	DE	9.52	0.38
70 present cows	SU	9.01	0.97
	WL	4.21	0.83

IF Prevalence rates are reduced by 10%

-5€

Total cost/present cow/year   **42 €**

Farm Cost due to Claw Disorders by year   **3,276 €**   **- 350 €**

Pie chart labels:
- Discarded Milk 3,65 €
- Extra labor cost 3,07 €
- Yield reduction 10,15 €
- Fertility deterioration 2,25 €
- Premature culling 8,08 €
- Trimmer cost 7,40 €
- Treatment cost 12,24 €

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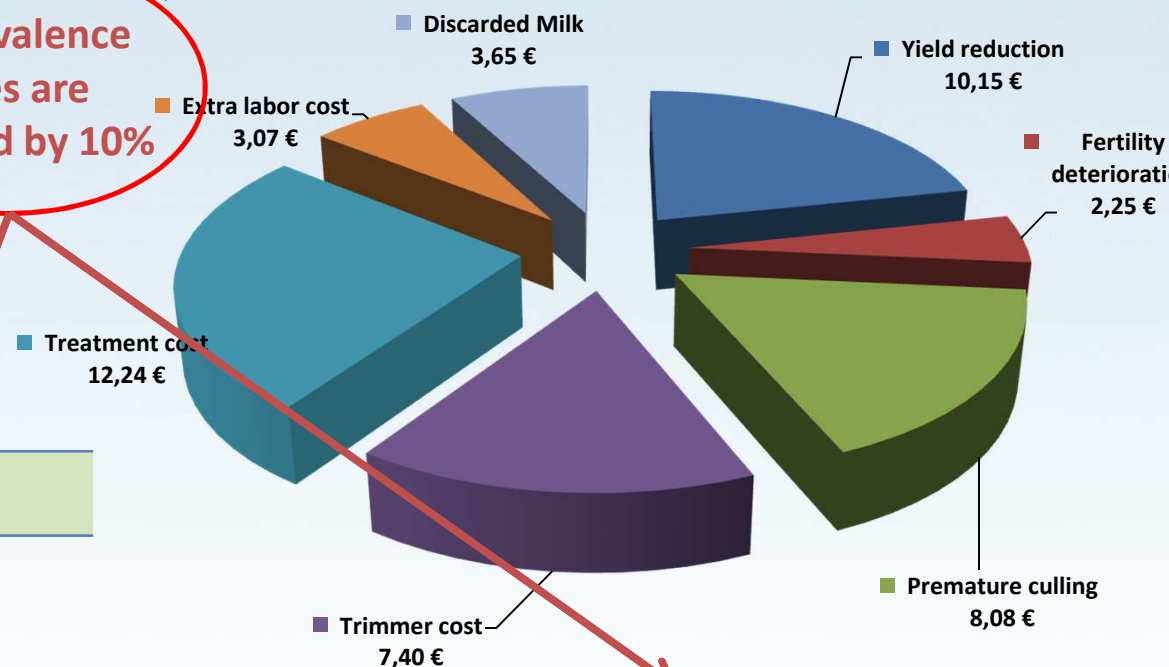
Claw Disorders	h^2	Repeatability
Dermatitis	0.05	0.10
Sole Ulcer	0.04	0.17
White Line Disease	0.02	0.11
Concave Dorsal Wall	0.01	0.18
Interdigital Hyperplasia	0.04	0.05
Interdigital Phlegmon	0.01	0.03
Infectious Disorders	0.06	0.16
Non-infectious Disorders	0.05	0.10
Overall claw disorders	0.05	0.15

Genetic evaluation run
(*In process*)

I-SAP Cost vs Potential Benefit

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Breakdown of I-SAP Cost for the past six years

PC-Tablets	21,000 € (5% Breakage)
DATPAT Software	15,000 €
I-SAP Web site	4,000 €
Server	2,000 €
Training Courses	60,000 €
Total	**102,000 €**

Potential Benefit for herds with claw data

Cows with claw data	**180,000**
Cost/present cow/year	**47 €**
If I-SAP achieves the reduction of 10% of Prevalence rate of DE, SU and WL	
Cost by cow can be reduced by 5€	
Which means an overall reduction of	**900,000€ per year**

- **Expanding the claw database.**

- **Assisting trimmers to provide better services.**

- **Fostering the use of data by farmers.**

- **Improving data quality.**

- **Implementing a routine genetic evaluation.**

- **An effective cooperation can generate a greatest deal**
- **Recording data could be time-consuming, but at long-term is highly beneficial**

In memorial of

Pedro Codesido

(1966-2017)

Whose help and support have been crucial

End

Thank you for your attention

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EHRC, Budapest (HUNGARY) 17-20 September 2017

Mean and standard deviation of prevalence rates (%) within herds during 2016

Claw disorders	Mean	SD.
Dermatitis	11.0	11.9
Sole Ulcer	11.1	9.6
White line disease	5.6	5.9
Interdigital hyperplasia	0.6	0.2
Interdigital phlegmon	0.8	0.2
Concave dorsal wall	0.5	1.2
All disorders	27.5	20.0