

Claw health Registration and harmonisation

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Number of claw trimmings last 12 months

	RDC	HOL	JER	Total	%
Sweden	68,206	77,012	1,303	146,521	41
Finland	12,012	6,598	-	18,610	5
Denmark	13,271	148,751	23,319	185,341	53

- Last year about 350,000 registrations
- Proportion of cows per country:
 - Sverige 25%
 - Finland 24%
 - Danmark 51%

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Number of claw trimmings in total all years

	RDC	HOL	JER	I alt
Sweden	384,739	429,532	5,552	819,823
Finland	92,913	44,359	-	137,272
Denmark	15,177	166,295	25,493	206,965

Number of records in total >1,164,000

Trait definition – genetic evaluation

Trait	Denmark	Finland	Sweden
Dermatit (DE)	Digital de+ spaltebetaendelse	Sorkkavälin ihon tulehdus+ Sorkka- alueen ihotulehdus	Digital de+klövspalteksem
Heel Horn Erosion (HH)	Balleråd	Kantasyöpymä	Klövröta
Sole Haemorrhage (SH)	Såleblödning	Vertymiä anturassa	Sulblödning
Sole Ulcer (SU)	Sålesår	Anturahaavauma	klövsulesår
Cork screw claws (CSC)	Proptraekker klov	Sorkkakiertymä	Korkskruvskölv
Skin Proliferation (SP)	Nydannelse+Digital vorte	Sorkkavälin liikakasvu+Sorkkasylä	Limax+vårta
White line separation+ double sole (WLS)	Hul vaeg+ dobbelt sål	Valkoviivan repeämä+ (Valkoviivan repeämä?)	Hålvägg+ dubbelsula



Trait definition

- Today
 - A few differences in trait definitions across countries
 - Finland score 0/1 (except dermatitis) and Sweden and Denmark 0/1/2

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Trait definition

Working group of claw experts:

- **Christer Bergsten, Pia Nielsen; Nynne Capion, Terhi Vahlsten, Jouni Niemi**
- **Agreement for the future**
 - **Claw disease definitions 100% harmonised**
 - **Classification 0/1 or 0/1/2 disease dependent**
 - **Joint atlas with pictures of all diseases**

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Registration in the three countries today

Finland (paper):

Claw trimmer deliver a report – farmer or technician key the data and transfer to data base

Sweden (paper):

Report from claw trimmer is scanned to data base

Denmark (PC – touch screen):

Claw trimmer or farmer key the data simultaneous with claw trimming – transferred by blue tooth to data base

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Trait	Grade	Description	Comments
Dermatitis	1 mild	Inflammation of the digital and/or interdigital skin with exudation or dry crusts (hyperkeratosis). Not painful	
Digital dermatitis	2 severe	Inflammation of the digital and/or interdigital skin with erosion, bleeding ulcerations. Painful and can cause lameness	M2 (Döpfer et al., 1997)
Heel horn erosion	1 mild	Superficial erosions of the bulbs, pits, V-shaped or circular. Not painful.	
Heel horn erosion	2 severe	Profound erosions of the bulbs, typical V-shaped or circular, extending to the corium	
Sole hemorrhage	1 mild	Superficial hemorrhage of the horn of sole and/or white line, disappears at normal trimming	
Sole hemorrhage	2 severe	Profound haemorrhage of the horn of sole and/or white line, remains after trimming	
Sole ulcer	1 mild	Penetration through the sole horn exposing fresh corium. Most likely lameness	Better picture is needed
Sole ulcer	2 severe	Penetration through the sole horn exposing affected corium with necrotic miss coloured tissue and or protruding granulation tissue. Lameness	
Wart growth	1	Papillomatoes dermatitis, chronic stage of digital dermatitis	
ID hyperplasia	1	Interdigital growth of fibrous tissue	Only one class

Trait	Grade	Description	Comments
ID phlegmon	1	Interdigital infection with <i>Fusobacterium necrophorum</i> , open wound, swollen foot, fever, odorous smell, lameness	Picture 1 unclear Klövspaltsinflammation
Fissure white line	1(mild)	Separation in the white line, present after normal trimming. Separation needs to be removed, leaving normal horn wall and white line	Better picture needed
Abscess, ulcer of white line	2 (severe)	Purulent exudation originating from a fissure of the white line, lameness	Böld i vita linjen
Abscess, ulcer of toe	2 (severe)	Ulceration of toe with abscess and or necrotic tissue, lameness	Tåböld
Double sole	1	Two or more layers of undermined sole horn	Picture looks rather severe
Laminitic ring	1	Concave deviation of the dorsal wall with horizontal lines i.e. laminitic ring	Konkav tävägg, fångring
Asymmetric claws	1	Significant difference in width between outer and inner claws	
screw claw	1	Inward torsion length wise of the either outer or inner claw	Least tendency should be recorded
Over grown claws	1	Severely overgrown toes (>)	Record toe length in mm??
Scissor claws	1	Tip of toes crossing each other	
Lameness	1, mild	Stands normal but walks with an arched back and with stiffness	Hälta
Lameness	2, severe	Stands and walks with an arched back and is clearly lame, bobbing of the head	
Hock lesion	1 mild	Swollen hock with superficial decubital injury	Benskada
Hock lesion	2 severe	Swollen hock with ulcer	

dansk: Balleråd / Balleforrådnelse
engelsk: Heel horn erosion
svensk: Klövröta
Finsk: Kantasyöpymä (766)

Mild



Sever



dansk: Såleblødning
engelsk: Sole haemorrhage
svensk: Sulblödning
finsk: Vertymiä anturassa (761)



dansk: Sålesår
engelsk: Sole ulcer
svensk: Klövsulesår
finsk: Anturahaavauma (764)



dansk: Digital dermatitis, DD
engelsk: Digital dermatitis
svensk: Klöveksem / Digital dermatitis
finsk: Sorkka-alueen ihotulehdus (767)



Future registration in the three countries

Three separate registration systems one per country

or

A joint registrations system - will ensure joint development

(Danish Cattle has offered a joint ownership to the electronic registration program)

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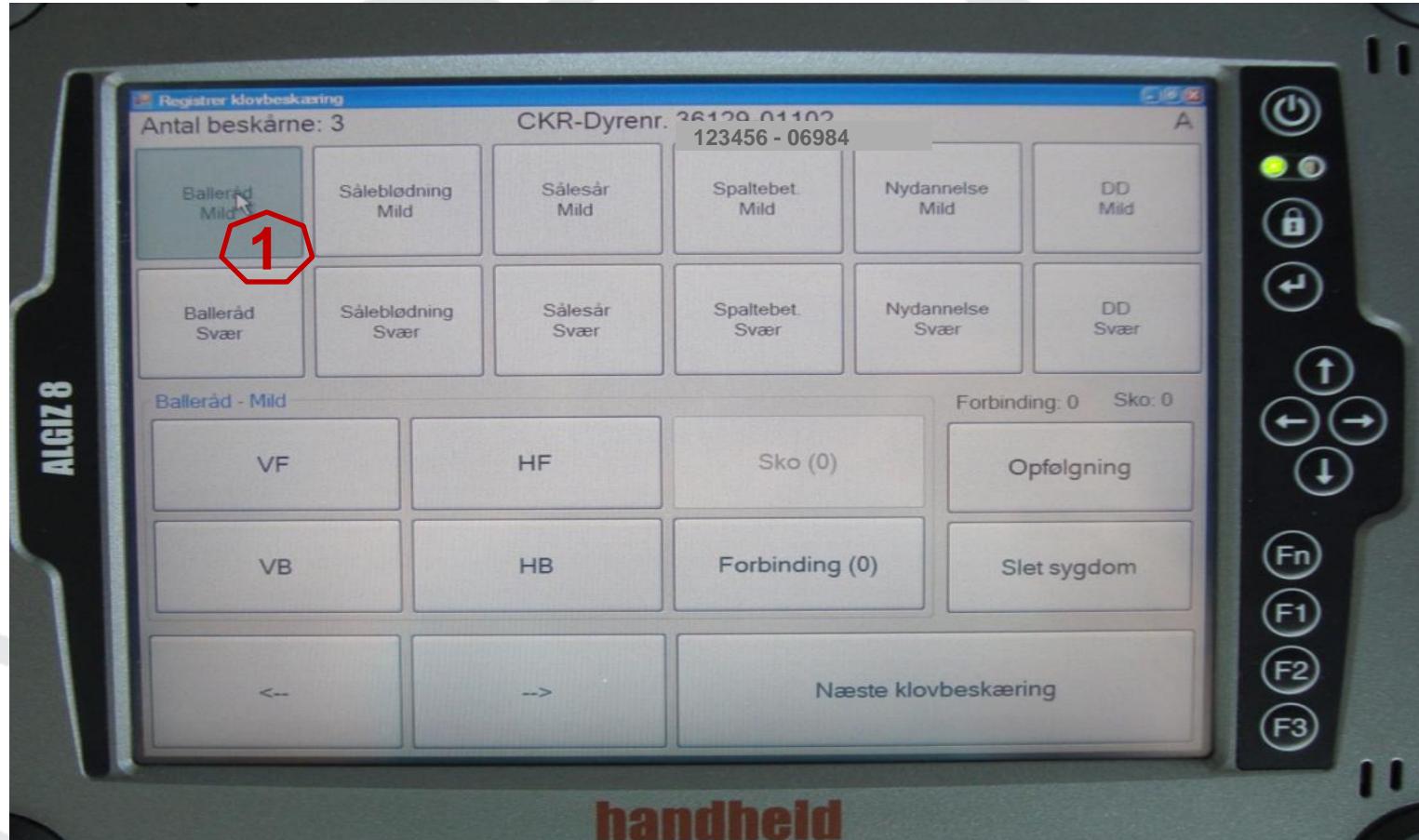
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Started spring
2010



Claw disease registration. One claw disease and the severity can be registered by one touch



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handheld



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