

Whose milk is in the vial?

Workshop, ICAR Prague 2019

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Växa Sverige



CERTIFICATE
OF QUALITY

VÄXA
S V E R I G E

Facts about...

Växa Sverige

- **Official breeding organisation - Sweden**
- **Members, farms 6400**
- **Cows in Milk recording 200 000 (2200 farms)**
- **Cows in AI - 280 000**
- **Employees, 300 full-time**
- **Offices – working areas 27**

Skånesemin, Rådgivarna Sjuhärad organises Milkrecording, AI locally.

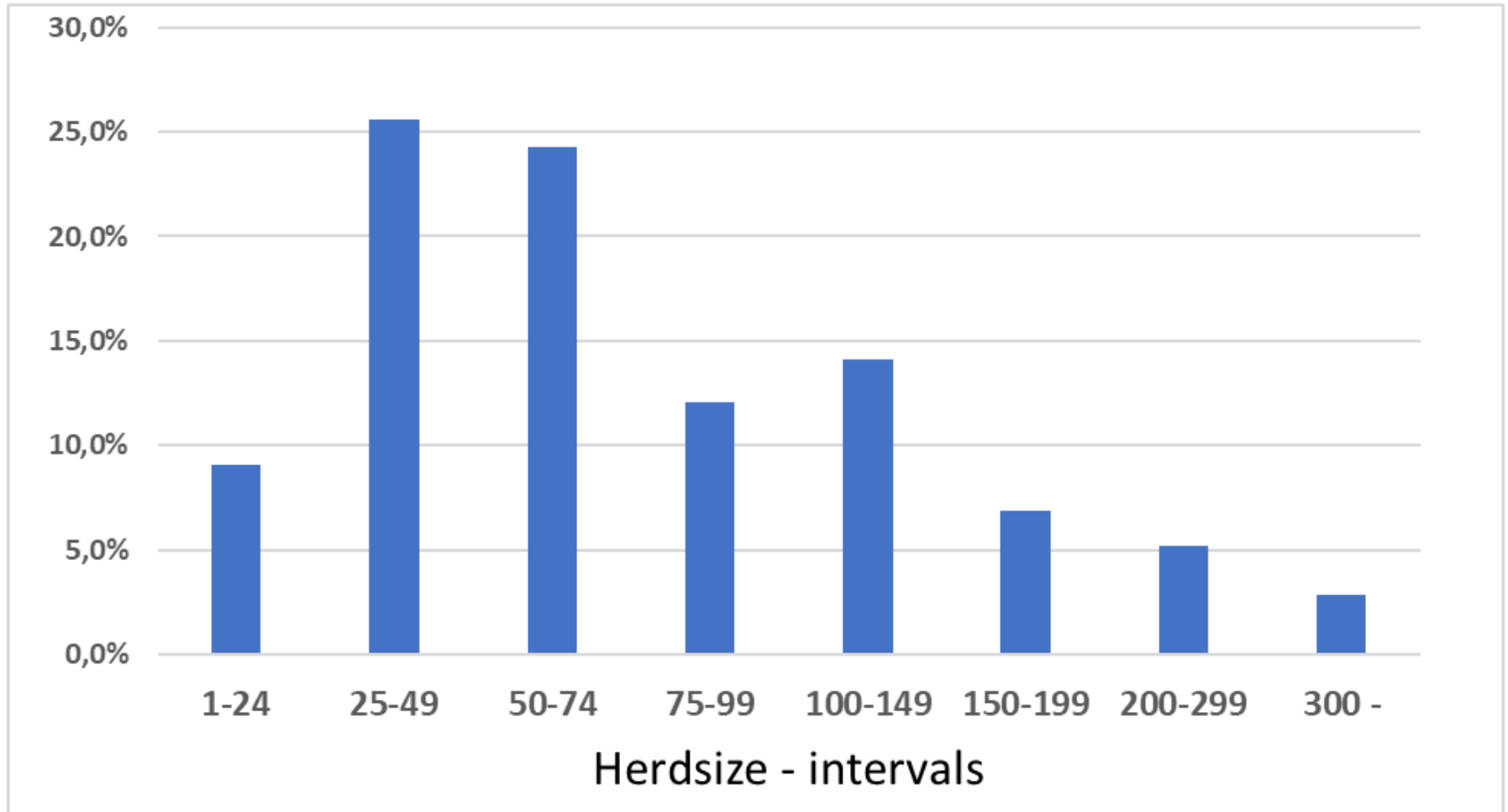
- Milkrecording
 - 33 000 cows, 300 farms



Milk recording 2017/2018

- **2427 herds**, full year, 77 % of all herds
 - In total 2713 herds incl. herds with part of year
 - **233 000 cows**, 79 % of all cows (Sweden)
 - Average production **10146 kg ECM**
 - 9827 kg milk
 - **Average herd size, milkrecording 91,6 cows**
-

Distribution of herds according to size – Large variation!

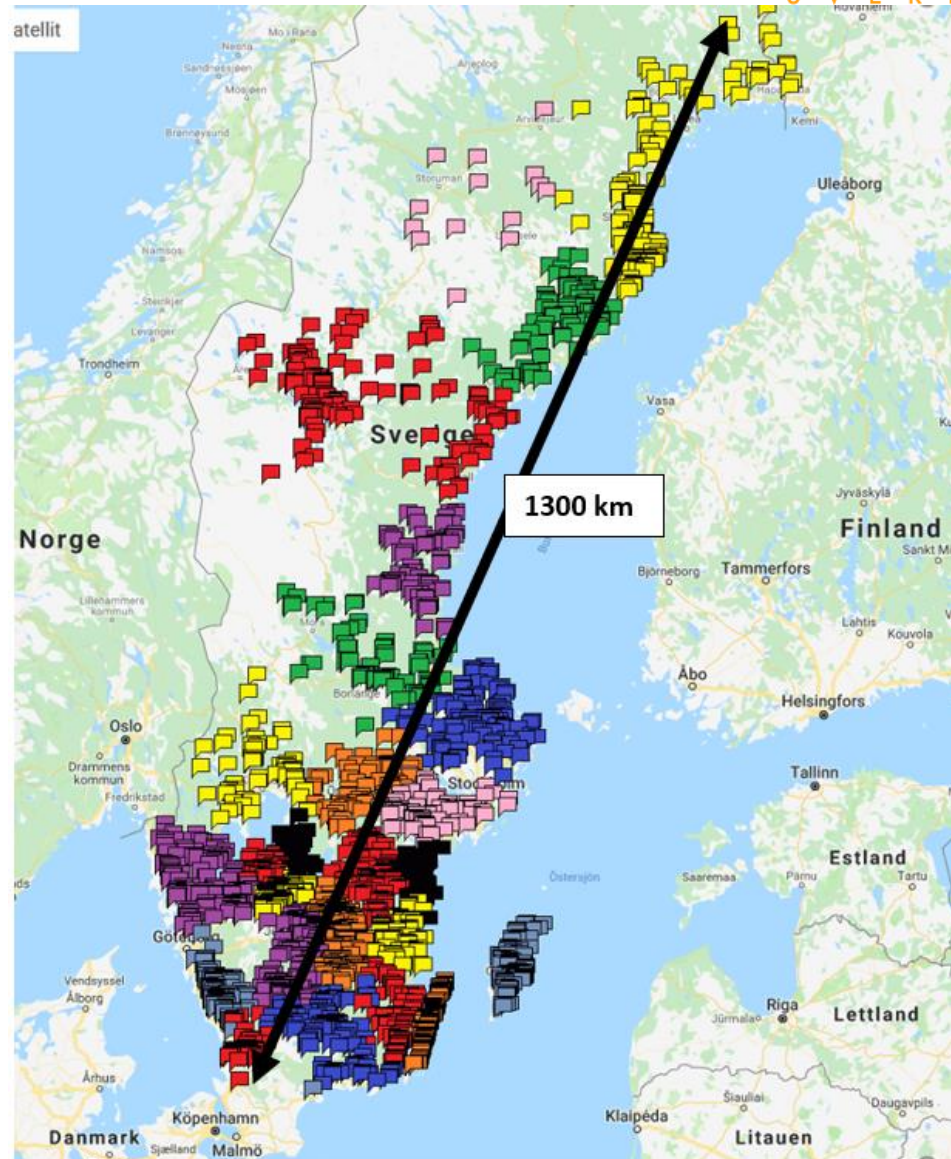


Milk recording - Sweden

- **B4, 100 %**
 - Variety of methods for recording and sampling
 - Stand-alone milkmeters, TrueTest models, DeLaval
 - Fixed installed meters
 - AMS-samplers
 - All milkrecording equipment owned by farmers...
 - ... with few exceptions as AMS-samplers (DeLaval, Lely) and a few TT Ezi-scanners.
-

Sweden

- Large country
- Large distances
- Växa Sverige has 2200 herds in milkrecording in area shown!
- Cost for A4 milkrecording would be to high!



Milkrecording

Support - Supervision

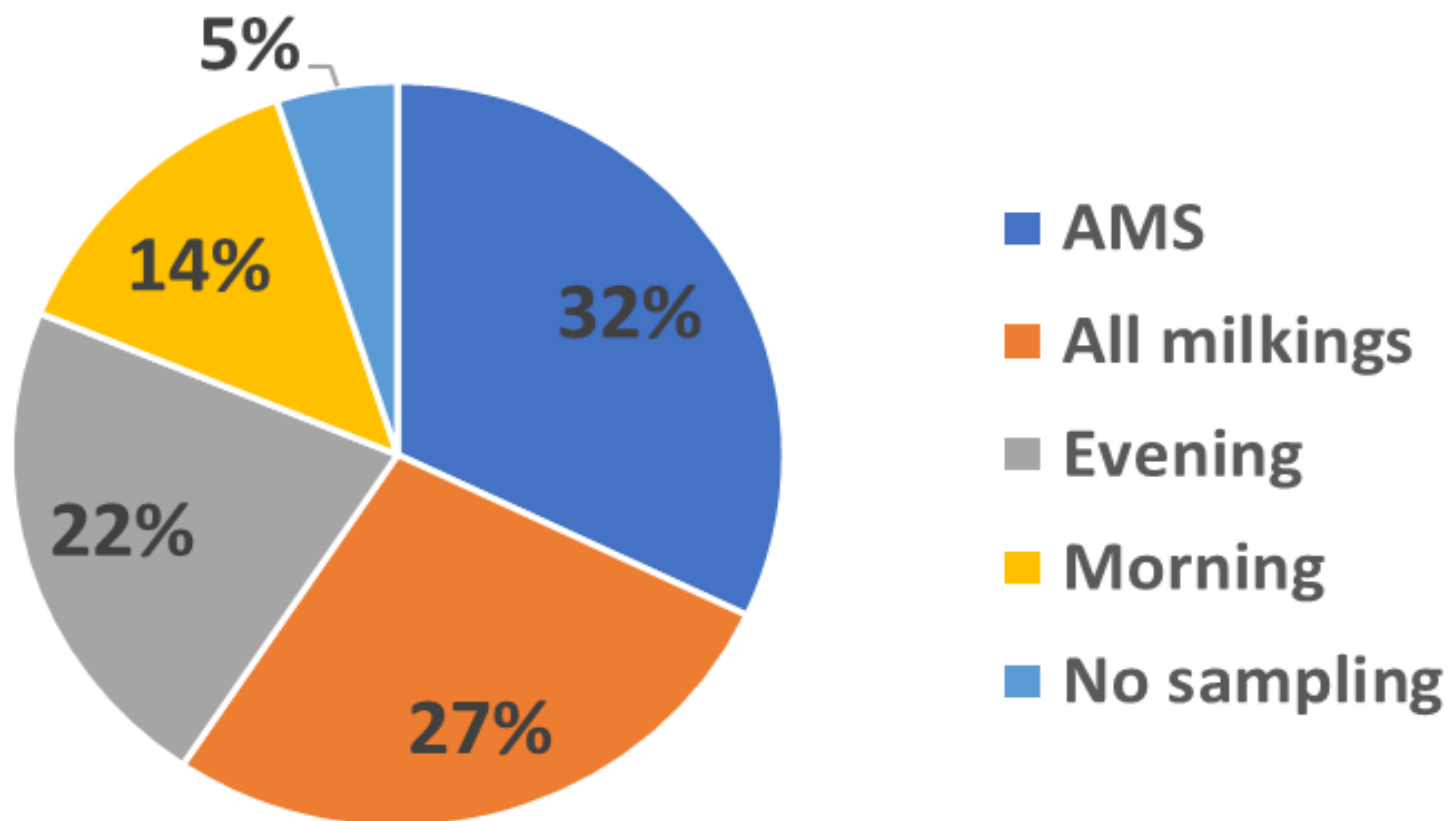
Support by Phone, E-mail, Skype,

Teamviewer - remote support tool

1. Supervision by Dairy factory comparison
 - Produced milk – Delivered milk
 - Milk-yield, kg
 - Fat, protein content
 2. If necessary or wanted – visits on farm!
-

Milk recording – Sampling!

Farmers can choose to sample at all milkings or either evening or morning, ex. March 2019



Securing Cow-Id - Vial

- Starts with preparation of testmilking!
- Since last testmilking....
 - All calvings reported
 - All cullings reported
 - All purchased cows reported
 - All dried off cows reported

Testmilking can be stressful! If everything is well prepared at start the lower the risk for errors on testday!

Testmilking with Cow Id.

– Order of vial

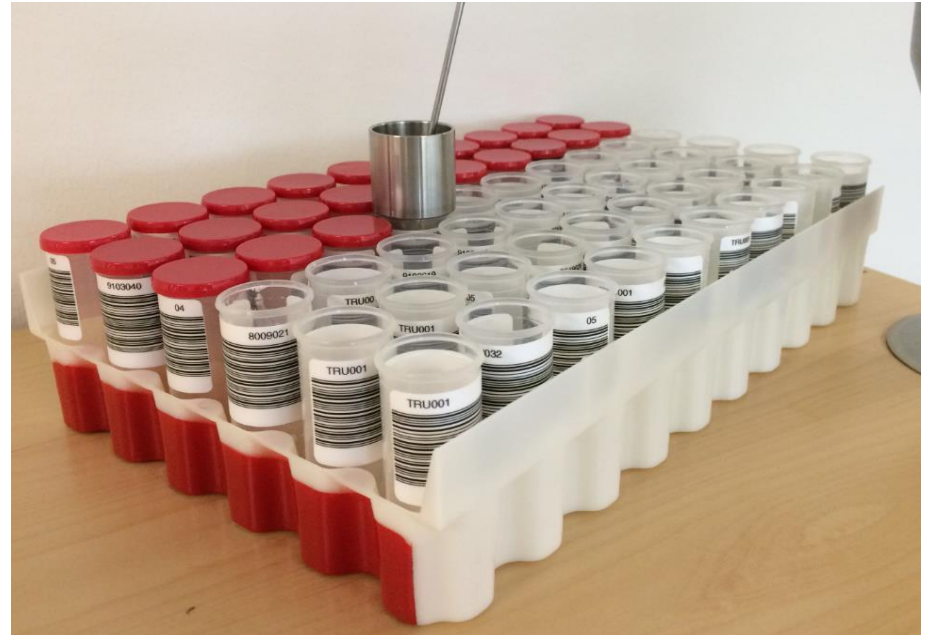
Cow Id - Vial

Using order of vials for connecting to Id of cow:

- Cassettes supplied by Eurofins
- Red side of cassette with vials – Always to the left!
- Numbering – Top left always vial nr 1
- Second row nr 11
- Template for numbering available



- Vials secured with lid and elastic rubber band!



Testmilking with covid.

– order of vial



Mostly farmers has a paper during testmilking as base for reporting: Paper for skanning, printout from webb/MinGård (MyFarm).

Produktionsuppföljning



37126 /

Produktionsuppföljning						
Löpnummer	Se-Id	Koppnr.	Kväll	Morgon	Summa	Föreg. Provning, kg mjölk
469	SE-37126-469-2	1				26.2
492	SE-37126-492-4	2				21.4
494	SE-37126-494-0	3				37.4
499	SE-37126-499-9	4				22.7
500	SE-37126-500-4	5				24.4
502	SE-37126-502-0	6				28.1
505	SE-37126-505-3	7				22.5
506	SE-37126-506-1	8				21.8
516	SE-37126-516-0	9				23.3
517	SE-37126-517-8	10				26.3
519	SE-37126-519-4	11				25.3
520	SE-37126-520-2	12				32.9

svensk mjölk + PROV MJÖLKINGSRAPPORT (Besöksrapport)

135 05

För nr Besättning nr

Prov mjölkning/Besök

År Mån Dag Slag Tjm Sid nr

Prov mjölkning 3 ggr/dygn

Besök nr Tidsspecifikation

Kom Gick

Bes upp Hemmaförbrukning

Mån Mjolk kg Mån Mjolk kg

135 05

Bruksöronnr Namn Identitetsnr Prov-kopp-nr Mjolk kg

Kväll Morgon Dygn

Diw/ Sjuk Mån Dag

Anteckningar

MinGård®

Cow Id - Vial

Order of vials

By cow id, serial nr

MinGård®

MinGård®

37126 Örsta By 1 » Rapportera provmjölkning

LARSSON SVEN O STINA

Provmjölningsdatum: Ny/sparad 2019-05-27

Provmjölkning utan analys: ☐

Antal mjölkningar/dygn: 2 3

Reg. mjölkavk.: 2 3 Dygnssumma

Starttid mjölkning/Analysuttag: Kväll 16:00 Morgon 06:00

Analysuttag: ☒

Föreg. månad provningsfri: ☐

Hemmaförbrukning, kg - Föregående månad/er: Månad April 500 Månad Mars Mjölk,kg Tankprov Koppnr.

Skriv ut provmj.lista Skapa koppsnummer

Djur i listan 25

Löpnnummer	Se-id	Koppnr.	Kväll	Morgon	Summa	Divkod	Föreg. Provning, kg m
469	SE-37126-469-2	1	12,6	15,7	28,3	✓	26.2
492	SE-37126-492-4	2	18,3	19,6	37,9	✓	21.4
494	SE-37126-494-0	3	20,1	22,5	42,6	✓	37.4
499	SE-37126-499-9	4	15,3	16,8	32,1	✓	22.7
500	SE-37126-500-4	5	17,5	20,6	38,1	✓	24.4
502	SE-37126-502-0	6	18,6	22,3	40,9	✓	28.1
505	SE-37126-505-3	7	12,3	15,6	27,9	✓	22.5
506	SE-37126-506-1	8	13,3	17,5	30,8	✓	21.8
516	SE-37126-516-0	9	18,9	21,3	40,2	✓	23.3

Cow Id - Vial

Order of vials:

Set as order of
milked cows at
sampling!

MinGård®

MinGård®

» 37126 Örsta By 1 » Rapportera provmjölkning

Provmjölkningsdatum: 2019-04-10

Provmjölkning utan analys: ☐

Antal mjölkningar/dygn: 2 3

Reg. mjölkavk: 2 3 Dygnssumma

Starttid mjölkning/Analysuttag: Kväll 16:00 Morgon 05:00

Föreg. månad provningsfri: ☐

Hemmaförbrukning, kg - Föregående: Mars

Månad: Februari

Tankprov: ☐

Skriv ut provmj.lista Skapa koppnummer

Löpnummer	Se-Id	Koppnr.	Kväll	Morgon	Summa
440	SE-37126-440-3	9	23,1	25,3	48,4
469	SE-37126-469-2	6	13,0	18,5	31,5
473	SE-37126-473-4	4	23,0	26,7	49,7
489	SE-37126-489-0	11	16,0	19,5	35,5
492	SE-37126-492-4	13	23,5	22,6	46,1
494	SE-37126-494-0	15	19,2	26,3	45,5
499	SE-37126-499-9	23	17,5	22,9	40,4
500	SE-37126-500-4	2	18,5	25,6	44,1
501	SE-37126-501-2	5	21,6	25,6	47,2
502	SE-37126-502-0	6	18,5	21,2	39,7
503	SE-37126-503-3	10	12,4	10,2	22,6

Barcode reader: Cow id - vial

Used by herds with fixed meters and management systems.

- TT Ezi-Scanner.
- Can be combined with reporting of milk yield or only for linking Cow-id with vial.



AMS-Link: Cow Id - Vial

By AMS-Link - barcode reader

- Data from AMS-sampler with position for vial and associated cow-id.
- Barcode is scanned and connected to test records
- Screenview of vials in cassette – possible to follow reading barcodes



AMS-Link: Cow Id - Vial

- Vials connected to cows without milk or not used is shown
- Registering of dry cows possible
- Possible to add cows milked outside AMS

AMS-link

Besättningsnummer: 5 - 30935

Ordinarie provning: ☐ Ordinarie provning ☐ Provmjölkning utan analys

Skanna övriga kor: ☐ Före ☐ Efter

Provmjölkningsdatum: 2018-03-14

Månad: Kg: Mån:

Hemmaförbrukning: 02

Löpnr: 602 Datum: 2018-03-13 Tid: 13:16:02 Avkastning: 10,6 Avk 24 tim: 17,1 Föreg streckkod: 9990090

Mjölkningsenhet: 2 Kasset: 1 Position: 24

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Tom plats utan provköpp
Markerad tom provköpp
Streckkodslöst provköpp

AMS-link

Besättningsnummer: 5 - 30935

Ordinarie provning: ☐ Ordinarie provning ☐ Provmjölkning utan analys

Skanna övriga kor: ☐ Före ☐ Efter

Provmjölkningsdatum: 2018-03-14

Månad: Kg: Mån:

Hemmaförbrukning: 02

Löpnr: 602 Datum: 2018-03-13 Tid: 13:16:02 Avkastning: 10,6 Avk 24 tim: 17,1 Föreg streckkod: 9990090

Mjölkningsenhet: 2 Kasset: 1 Position: 24

Löpnr	Startdatum	Startid	Tid	Enhet	Kasset	Position	Avk	Avk 24 t	Status	Mjölkn	Streckkod	Div kod 1	Datum	Div kod 2	Information
551	2018-03-13	20:57:39	08:31	2	2	2	24,2	45,3	1	9990128					
426	2018-03-13	21:07:14	06:26	2	2	3	17,1	31,8	1	9990129					
579	2018-03-13	21:33:47	06:01	2	2	4	15,4	26,9	1	9990130					
302	2018-03-13	22:17:16	11:44	2	2	5	17,5	26,0	1	9990131					
464	2018-03-13	22:38:19	08:30	2	2	6	16,0	17,1	1	9990132					
505	2018-03-13	23:13:27	09:57	2	2	7	17,9	30,0	1	9990133					
617	2018-03-13	23:34:38	06:51	2	2	8	17,7	27,2	1	9990134					
415	2018-03-13	23:58:32	06:53	2	2	9	16,0	30,9	2	9990135					
5283	2018-03-14	00:15:57	08:06	2	2	10	16,5	37,2	2	9990136					
404	2018-03-14	01:50:40	04:38	2	2	11	10,1	30,7	2	9990137					
5759	2018-03-14	01:55:45	07:32	2	2	12	16,9	24,4	1	9990138					
502	2018-03-14	05:54:02	09:02	2	2	13	18,8	40,9	1	9990162					
372												2 Sinlaggning	2017-12-13		
389												2 Sinlaggning	2017-12-14		
416												2 Sinlaggning	2018-03-06		
438												2 Sinlaggning	2018-03-06		
479												2 Sinlaggning	2018-03-05		
521												2 Sinlaggning	2018-02-08		
566												2 Sinlaggning	2018-02-08		

AMS – Milkrecording.

Handling of vials

VMS-sampler, cassettes from Eurofins can be used!



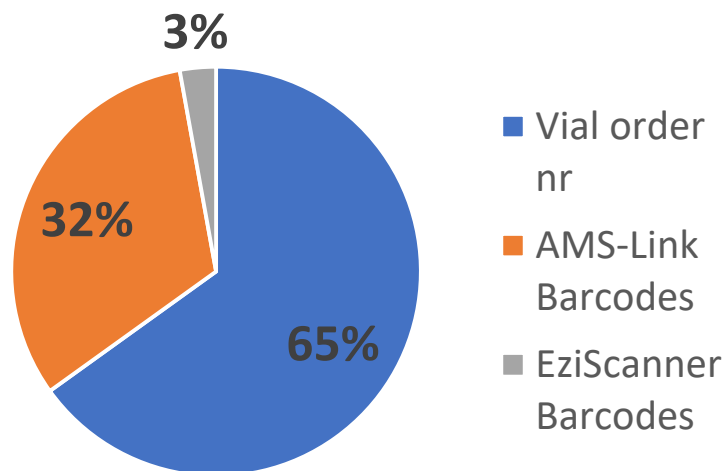
Lely Shuttle, vials has to move to shuttle and back to cassette



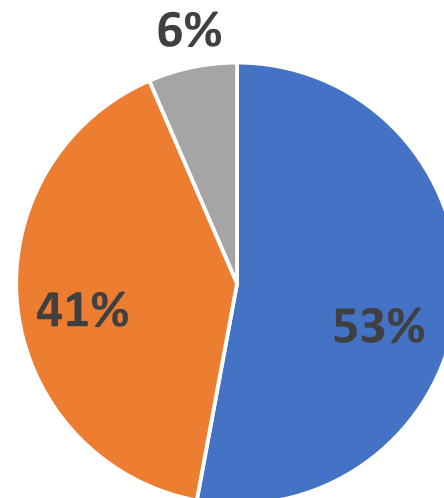
Cow Id. – Vial

Methods used in Swedish milkrecording

Herds



Cows



Conclusions, cow-vial link



PAG, pregnancy analyses introduced 2015, done on milksamples from milkrecording!

Approx 1000 herds subscribe for PAG

Approx 9000 – 10000 analyses each month

No complaints about suspiscion on results for pregnancy tests nowadays!

-> Evidence that methods works!

Future plans for improvement?

- Registering through MinGård/MyFarm webpage introduced 2018/19
 - Further development planned
 - Develop new system for using barcodes connected to MinGård/MyFarm
 - Use of Smartphones/Tablets or other handheld devices!?
 - Searching for suitable barcode-readers
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Thank You for your attention!

