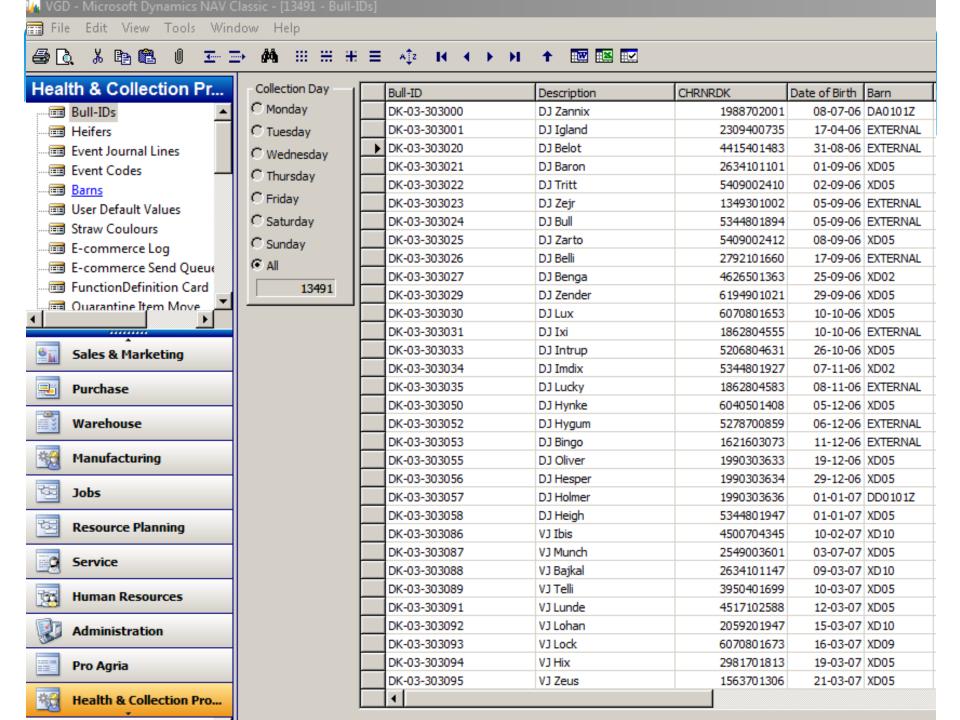
# Management Information System.

## Management Information System.

- \* One common system that are used on all semen collection centers in VikingGenetics.
- \* Data available for all.
- \* Integrated to Finance Department
- \* Generating reports.



### Bull health card.

DK-03-302835	DJ Broiler Jersey 1086	Date Of Birth	2005-07-04	
ID		Father	JAS BUNGY	
Birth Identity		Mother	DK1890301324	
Located	DD0101Z DALSGÅRD DK	Grandfather	FYN LEMVIG	
Plate		Control digit -	Livestock As	
Weight I0,00	Weight 0,00	Height at cro 0,00	Height at whit0,00	Chest circumf0,00

Date	Event	Status/Barn	Remark
2013-05-06	COLLECTION	PA DA0101Z	Qty: 483 RC:APPROVED Lot:100583-851
2013-05-14	COLLECTION	PA DA0101Z	Qty: 574 RC:APPROVED Lot:100671-852
2013-05-14	PARATB	PA DA0101Z	ELISA 2013-30-3639 Blood PARATB Negative 4365
2013-05-14	BLUETONGUE	PA DA0101Z	ELISA 2013-80-1139 Blood BLUETONGUE Negative 4385
2013-05-16	COLLECTION	PA DA0101Z	Qty: 439 RC:APPROVED Lot:100714-853
2013-05-21	COLLECTION	PA DA0101Z	Qty: 652 RC:APPROVED Lot:100762-654
2013-05-23	COLLECTION	PA DA0101Z	Qty: 596 RC:APPROVED Lot:100794-655
2013-05-28	COLLECTION	PA DA0101Z	Qty: 760 RC:APPROVED Lot:100865-656
2013-05-28	SCHMALLENBERG	PA DA0101Z	PCR U140219-0151 Diluted semen SCHMALLENBERG Negative 4365
2013-06-04	COLLECTION	PA DA0101Z	Qty: 1059 RC:APPROVED Lot:100978-857
2013-06-04	BVD	PA DA0101Z	ELISA 2013-30-4074 Blood Negative 4385
2013-06-04	IBR/IPV	PA DA0101Z	ELISA 2013-30-4074 Blood Negative 4365
2013-06-04	PARATB	PA DA0101Z	ELISA 2013-30-4074 Blood PARATB Negative 4365
2013-06-07	COLLECTION	PA DA0101Z	Qty: 431 RC:APPROVED Lot:100993-858
2013-06-11	COLLECTION	PA DA0101Z	Qty: 860 RC:APPROVED Lot:101046-659
2013-06-13	COLLECTION	PA DA0101Z	Qty: 858 RC:APPROVED Lot:101090-860
2013-06-18	COLLECTION	PA DA0101Z	Qty: 817 RC:APPROVED Lot:101169-661

## Report of collection

	Bull-ID	Description	Date of Birth	Pro Status	М	т	w	T	F	S	S	Production Goal	Tot produced	Collected Times
•	DK-03-302835	DJ Broiler	04-07-05	Re								Aug14, 10.000	40.713	197

Ì				
1				
ı	Inventory	Reserved	InventoryX	ReservedX
1	12,967		1,421	317
-	12.507	3. 117	11 121	517

## Report of qualifying doses

rading rule ZA-DK 🕇	Lot				Total	on sto	ock / Revse	rved on stock	12	967 5.4	17			
Dis. Add.Demands:	Item No		Description				Market	Lot No.	Remaining	. Reserved	Locati	ion C	Collectio	Documen.
Incl. Sem. Remarks:	▶ DK-03-3	02835-0	DJ Broiler					120508		5 0	DK-I-	00014	08-05-1	2 IJJK00099
Incl. Trials:	DK-03-3	02835-0	DJ Broiler					120501	L	5 0	DK-I-	00014	01-05-1	2 IJJK00106
	DK-03-3	02835-0	DJ Broiler					120313	3	5 (	DK-I-	00014	13-03-1	2 IJL01504
pdate <u>T</u> otal	DK-03-3	02835-0	DJ Broiler					100671-652	5	74 569	DK-I-	00011	14-05-1	3 C000377
enerate qualified lots		02835-0	DJ Broiler					100794-655	2	<sup>76</sup> 255	DK-I-	00011		C0004294
		02835-0	DJ Broiler					110415			DK-I-			1 IJMH0002
elect gualified lot	DK-03-3	02835-0	DJ Broiler					110509		5 0	DK-I-	00014	09-05-1	1 IJMH0002
urrent Filters	: DK-03-30283	5-0, Rema	aining Quantity	/: >0, Lot	No.: <>	·", Mod	dellID: <>S	ERUM, Positiv	ve: Yes					
	: <b>DK-03-30283</b> Qualified / Rese	rved	9.56	4	5.417	UnQ	Qualified lot	ts/Teaser test	s	Send Teaser se	erum	Mar	k Serums	
ualified lots Total C	Qualified / Rese		9.56	4 Rema	5.417 Res	Un(	Qualified lot	ts/Teaser test	s	s Lot No.	Locatio	n	_	ectio De
Loalified lots         Total C           Collectio         Item No.           ▶         06-03-12         DK-03-30283	Qualified / Rese Description DJ Broiler	rved	9,56- Lot No. 120306	Rema	5.417 Res	Un(	Qualified lot	ts/Teaser test ctio Re 3-02-11 33	Re Tes	s Lot No. 1 110223	Locatio DK-I-00	n	_	D.
Collectio   Item No.     06-03-12   DK-03-30283     06-10-10   DK-03-30283	Qualified / Rese Description DJ Broiler DJ Broiler	rved	9,56- Lot No. 120306 101006	Rema 172 19	5.417 Res 0	Un(	Qualified lot	ts/Teaser test	Re Tes	s Lot No.	Locatio DK-I-00	n	_	
Dalified lots Total Collectio Item No.	Description  DJ Broiler  DJ Broiler  DJ Broiler  DJ Broiler	rved	9.56- Lot No. 120306 101006 110504	Rema 172 19 38	5.417 Res 0 0	UnC	Qualified lot	ts/Teaser test ctio Re 3-02-11 33	Re Tes	s Lot No. 1 110223	Locatio DK-I-00	n	_	D.
Loalified lots         Total Collectio           Item No.         06-03-12           DK-03-30283         06-10-10           DK-03-30283         04-05-11           DK-03-30283         09-02-12           DK-03-30283         09-02-12	Description  DJ Broiler  DJ Broiler  DJ Broiler  DJ Broiler  DJ Broiler	rved	9.56- Lot No. 120306 101006 110504 120209	Rema 172 19 38	5.417 Res 0 0 0	UnC	Qualified lot	ts/Teaser test ctio Re 3-02-11 33	Re Tes	s Lot No. 1 110223	Locatio DK-I-00	n	_	D.
Dalified lots Total Collectio Item No.	Description  DJ Broiler	rved	9.56- Lot No. 120306 101006 110504 120209 120221	Rema 172 19 38 11 455	5.417 Res 0 0 0 0 455	UnC	Qualified lot	ts/Teaser test ctio Re 3-02-11 33	Re Tes	s Lot No. 1 110223	Locatio DK-I-00	n	_	D
Collectio   Item No.     Collectio   Item No.     06-03-12   DK-03-30283     06-10-10   DK-03-30283     04-05-11   DK-03-30283     09-02-12   DK-03-30283     21-02-12   DK-03-30283     27-03-12   DK-03-30283	Description  DJ Broiler	rved	9.56- Lot No. 120306 101006 110504 120209 120221 120327	Rema 172 19 38 11 455 1.051	5.417 Res 0 0 0 0 0 455 1.051	Unc	Qualified lot	ts/Teaser test ctio Re 3-02-11 33	Re Tes	s Lot No. 1 110223	Locatio DK-I-00	n	_	D
Collectio   Item No.	Description  DJ Broiler	rved	9.56- Lot No. 120306 101006 110504 120209 120221 120327 120515	Rema 172 19 38 11 455 1.051 947	5.417 Res 0 0 0 0 455 1.051 942	Und	Qualified lot	ts/Teaser test ctio Re 3-02-11 33	Re Tes	s Lot No. 1 110223	Locatio DK-I-00	n	_	D
Lalified lots         Total Collectio           Item No.         06-03-12           DK-03-30283         06-10-10           DK-03-30283         04-05-11           DK-03-30283         09-02-12           DK-03-30283         21-02-12           DK-03-30283         27-03-12           DK-03-30283         27-03-12	Description  DJ Broiler  DJ Broiler	rved	9.56- Lot No. 120306 101006 110504 120209 120221 120327	Rema 172 19 38 11 455 1.051	5.417 Res 0 0 0 0 0 455 1.051	Unc	Qualified lot	ts/Teaser test ctio Re 3-02-11 33	Re Tes	s Lot No. 1 110223	Locatio DK-I-00	n	_	D.

## Human Ressource Development

- Laboratory employee
- \* Al tecnicians education.

#### List of competences

Viking Genetic/Organition		
Sexed semen theory	T	
Collection area, barn, insemination tour	tour Introduction	
Semen basis	Т	
Conventional lab		
Flowcytometry principle		
Produce semen dilution		
Raw semen analysis		
Print fill up straws		
Freezing	Semen productio	
Analyse thawed semen		
Data registration		
Store		
Sarety		
Supervision	Nitrogen	
rilling		
Neceive orders		
Packing for semen truck schedule	Distribution	
Sale of other products		
Microscope		
Flowcytometer		
Printers	T	
Filling machines	Lab technique	
Freezers	T	
Straw count machines		
Microscopy	Amalana	
Vitality/concentration	Analyses	
Animal database		
Semen sexing program	T	
Blood bank	Data	
Import database		
Export database		
Handling		
Freezing	Blood bank	
Data registration		
Reception		
Reporting		
Registration		Со
Certificates	тодш	mp
Delivery		eter
Container handling		ice
Orders		0
Packing		-1
Registration	to day	2
Certificates		3
Shipment		4
Container handling	_	5

#### A.I. technicians

- \* A.I. technicians is the most important connection between Semen Collection center and the farmer.
- \* Official education: 9 weeks course

½ year with experienced technician week course with graduation.

- \* Training program conducted by VikingGenetics compagnies
- \* Working in teams of 3 technicians.
- \* Available 7 days a week 361 days a Year.

## Job description for A.I. technician

- \* Breeding advising: The best bull for a specific cow.
- \* Correct handling of Semen.
- \* Correct thaw and insemination technique.
- Pregnancy test

## Costumers Relationship Management

- \* Hotline
- \* Sire analyst
- \* Veterinarian
- \* Finance
- \* Marketing



### Semen Station Certification

- \* EU approval 88/407
- \* National legislation
- \* ISO certification 9001



#### DET NORSKE VERITAS MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 2007-SKM-AQ-2530

This is to certify that

#### VikingGenetics FMBA

SKARA and FALKENBERG, SWEDEN ASSENTOFT and BOVLUND, DENMARK

has been found to conform to the Management System Standard:

ISO 9001:2008

This Certificate is valid for:

Implementation of breeding programmes for cattle including bull management and production of semen for domestic and international markets

Initial Certification date:

2008-04-09

This Certificate is valid until: 2010-08-31

The audit has been performed under the supervision of: Ewa Marmstål Lead Auditor WEDAC.

Place and date: Stockholm, 2009-12-03

for the Accredited Unit: DNV CERTIFICATION AB, SWEDEN

Ann-Louise Pått
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

DET NORSKE VERILAR ROX 6046-171 06 SQL NA. SWEDEN, Tel: +46.8 587 940 00 FAX: +46.8 651 70 43