AI Station and Quarantine



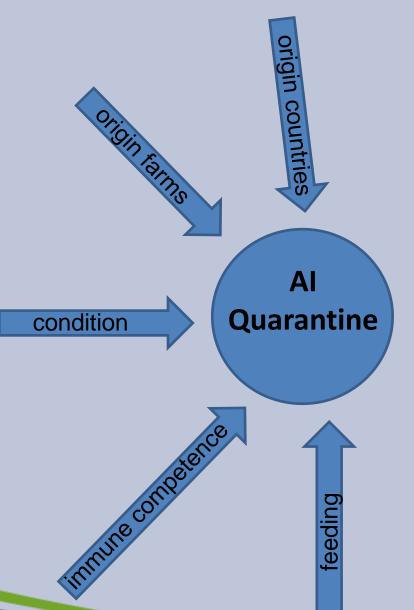
Al Station and Quarantine



Al Station

bull calf rearing
bull keeping and feeding
health management
Treatments and tests
general stud sanitation
biosecurity

Pre-Quarantine: Bull calf preparation



Documents and health checks before arrival:

- General information for the owner
- Health certification of origin farm by local authority (within Germany)
- Traces certificate (and required test results e.g. TB-test in UK) for import bulls
- Declaration of owner
- Blood check results & Gene analysis (only from one lab)

Pre-Quarantine: Genetic Check

Genetic Analysis (HF)

- 1) Breeding value (gRZG)
- 2) parentage (microsatellites of dam and sire)
- 3) BLAD
- 4) CVM
- 5) Brachyspina
- 6) Red Carrier
- 7) Polled

Pre-Quarantine: Blood Check 1

BL SILORE BILL ARRIVAL.

According to EU-legislation (and additionally):

- 1) Infectious Bovine Rhinotracheitis (gB-Ab)
- 2) Brucellosis (Ab)
- 3) Leucosis (Ab)
- 4) Bovine Virus Diarrhoe (Ab)
- 5) Bovine Virus Diarrhoe (Ag)
- 6) (Johne's Disease Ab)
- 7) (Bluetongue Ab)
- 8) (Bluetongue Ag)



Pre-Quarantine: Declaration of owner

Standard document to display:

- 1) about contact to females
- 2) general condition
- 3) treatments
- 4) feeding

"freedom of symptoms of diseases including umbilical hernia"

"andrological intact, including two testicals of normal size"



Pre-Quarantine: Examination and TB-Test

Before Quarantine starts:

- 1) TB-Test (intradermal, bovine and avian tuberculin simultaneously)
- 2) Examination (protocol!) → Feedback for Sire Analysts/Owner

STANDARD PROTOCOL STANDARD PROTOCOL

Physical examination:

- 1) General health
- 2) Eyes
- 3) Teeth
- 4) Umbilicus
- 5) Testicles



Quarantine: Feeding and Housing

Diet:

- 1) hay
- 2) water
- 3) little concentrate
- → become accquainted

Housing:

straw bedding depending on the age groups of 2-5 bulls



Quarantine: Treatments and Tests

Treatment 1:

- 1) 1st Ringworm vaccination
- 2) Endo-/Exoparasites (pour on)

Preputial samples:

- 1) Trichomonas fetus (parasite)
- 2) Campylobacter fetus fetus

Treatment 2 & Blood Check 2:

- 1) 2nd Ringworm vaccination
- 2) Repellent (pour on)



Quarantine: Blood Check 2

BLARL BLOJARANIA

According to EU-legislation (and additionally):

- 1) Infectious Bovine Rhinotracheitis (gB-Ab)
- 2) Brucellosis (Ab)
- 3) Leucosis (Ab)
- 4) Bovine Virus Diarrhoe (Ab)
- 5) Bovine Virus Diarrhoe (Ag)
- 6) (Q-Fever Ab)
- 7) (Schmallenberg Ab)
- 8) (Leptospirosis Ab)



Quarantine and AI Station

Al Quarantine

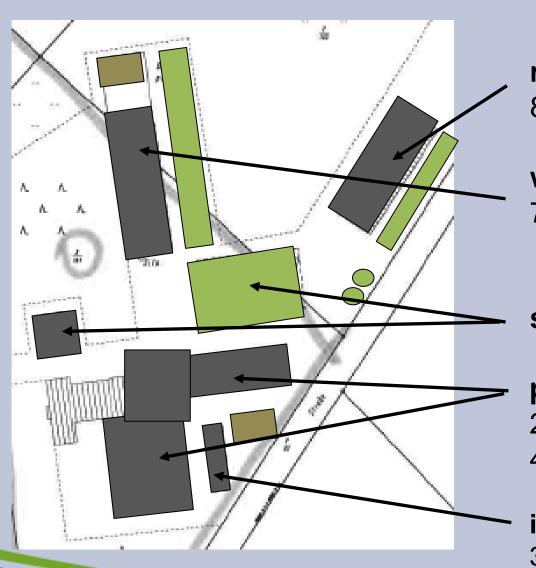
bull calf preparation
examination
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Al Station: Site plan



rearing barn

80 places in groups (4-7 bulls)

waiting barn

70 places in groups (2-3 bulls)

straw, hay, machinery

production barns

22 single boxes (15-20m²) 40 single boxes

internal isolation

3 single boxes



Rearing barn

Before production starts:

- 1) Blood check
- 2) Preputial sample
- 3) Andrological examination
- 4) Magnet
- 5) Claw trimming

Claw trimming

Production bulls need good claws for jumping!
Safety and convinience is absolutely neccessary!

SAFETY WHILE WORKING

Production barn

40 single boxes

straw bedding fresh water ad libitum

hay, alfalfa, concentrate (selenium), oak, ß-carotin, yeast possibility to fixate each bull

fixation two times per day for feeding and cleaning special lights/ light treatment in wintertime

production twice per week (two jumps each)

"Waiting bulls"/ Pausing bulls

70 places in groups of 2-3 bulls

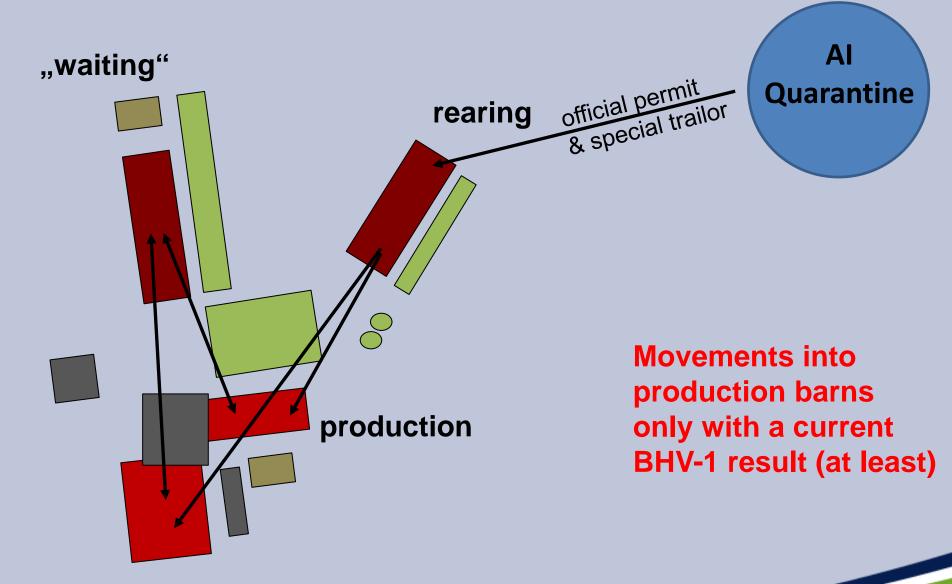
TMR: 50 % gras silage, 30 % straw; 20 % corn silage, minerals

distinctive feature: single fixation, group run-out

morning fresh, afternoon repeated supply

easy handling (fasten, cleaning, sampling)

fresh straw daily, dunging every two weeks **Bull movements/ Hygiene levels**



Safety in bull handling

double security when handling with bulls

nose ring (age!)

leading bar <u>and</u> rope (considering the age)

escape ways
safety bars
experienced staff!



Minimise risks inside!

Principle of black & white areas

bull keepers/vets/visitors (potential risk: animal contact outside)

clothes/

inside the centre/ with animal contact

production area
(animals - high dirt potential)

NO access/ airlock semen lab/ semen processing

deliveries/pickup/repairs (fudder, manur, technical service)

NO access/clothes

inside the centre



AI Station: Minimise risks!



fodder

straw (own production)
hay (own production)
silage (own production)
concentrate (filling from outside)

dunging

storage areas for manur (by hand /automatically, by tractor - own access from outside)

carcass place

storage area (access from outside)

