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# Cage-Free Transfer

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# Important for rearing

## *Important for Cage-Free (transfer)*

- *Cleanness*
- *Rest*
- *Regularity*



# Make a plan before transfer!!

- On what age we want to transfer?
- Is the vaccination program ready?
- What type of feed we use in start production?
- Lightstimulation? (Hours and LUX)
- Close the PULLETS inside the system?

# Make a plan before transfer!!

- When rearing and production is not in Scandinavian!!!!, production can't start before 17 weeks of age!!!! STRESS
- Transfer before 17 weeks is possible, but be aware that we treat them as pullets!!! STRESS
- NO Pre-Lay or Layerfeed on early age!!! STRESS
- NO lightstimulation in Hours before 17 weeks!! STRESS
- When you need to lock-up the pullets, then not for long!! (Max 2 weeks) STRESS

# Preparing



# Preparing

- Preparing for placement pullets
  - *Check setting in the computers if they are O.K.*
  - *Is everything checked & tested (especially with first flock)*
- Start pre-heating the house on time. Also the equipment has to get on temperature.
  - *House temperature up to 22°C.*
  - *The first 48 – 72 hours after placement, this temperature must be maintained.*
  - *The pullets will distribute directly on the way they should!*



# Preparing

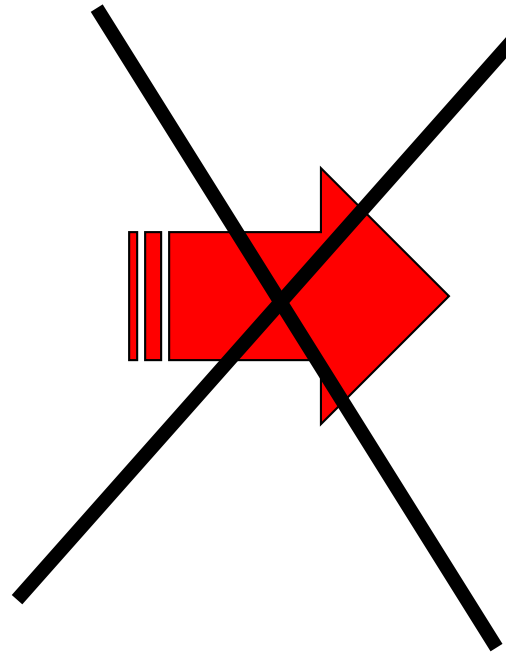


# Preparing

- The body weight of the pullets should have reached the breeder-standard.
  - *Be aware of weight loss due to loading and transport.*
- Time settings from the rearing house should be copied to the layer house as accurately as possible.



# What doesn't work...



# Preparing

- Feed and water have to be available in the system before the birds arrive.
- Feedlevel in the through the first days. (Feed managment!!!!)
- Litter





# Preparing

- New poultryfarmers -> Practical training
- Discuss before the pullets will be placed, settings of:
  - *Lights/feed/water*
- Determine the strategic road with:
  - *Advisors from hatchery, feedsuppliers, Veterinarian*  
*and/ or other involved parties*

# Preparing

- Light influence from outside.
  - *For pullet **AND** layer houses!*

# Preparing



# Preparing





# Preparing



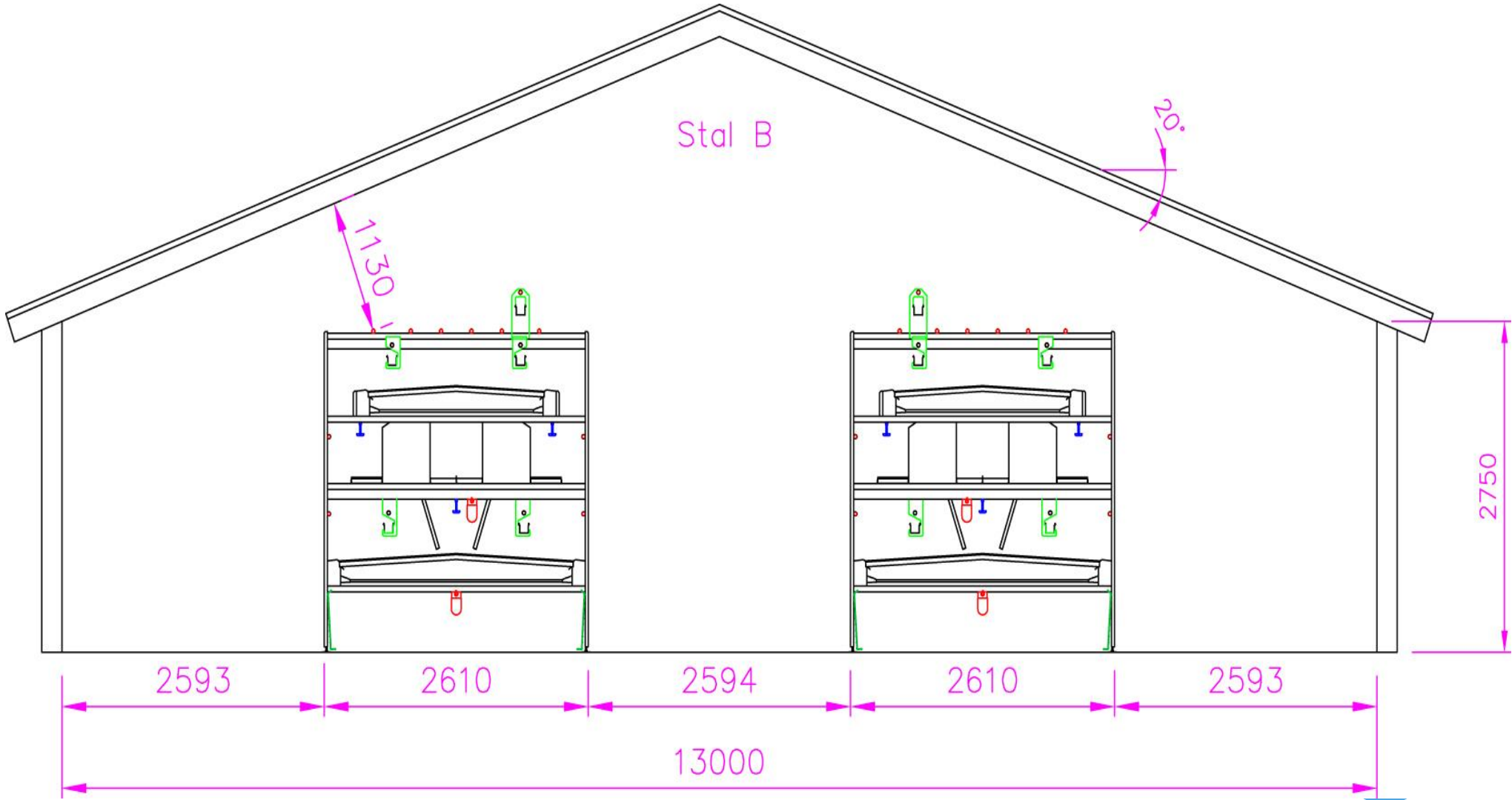
# Preparing



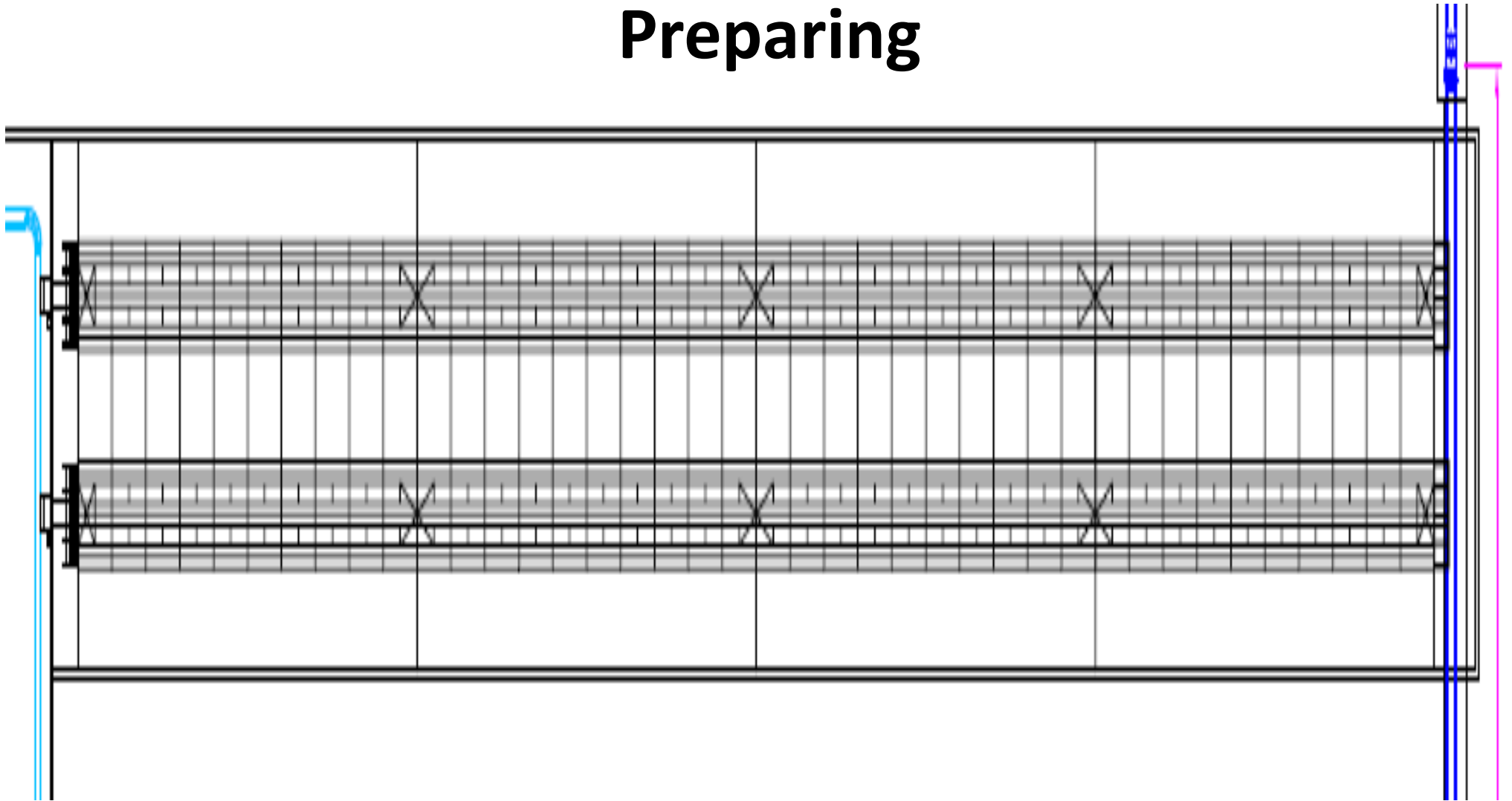
# Preparing

- Shocking wire (when allowed!!)
  - *How to use...*
- Distribution of the birds in the house.
  - *Per row*
  - *Per compartment*
- Unload the birds on the system  
*(where feed and water is available)*

# Preparing



# Preparing





# Placement of the pullets



# Placement of the pullets





# Placement of the pullets



# Placement of the pullets

## ➤ Dimming of the lights

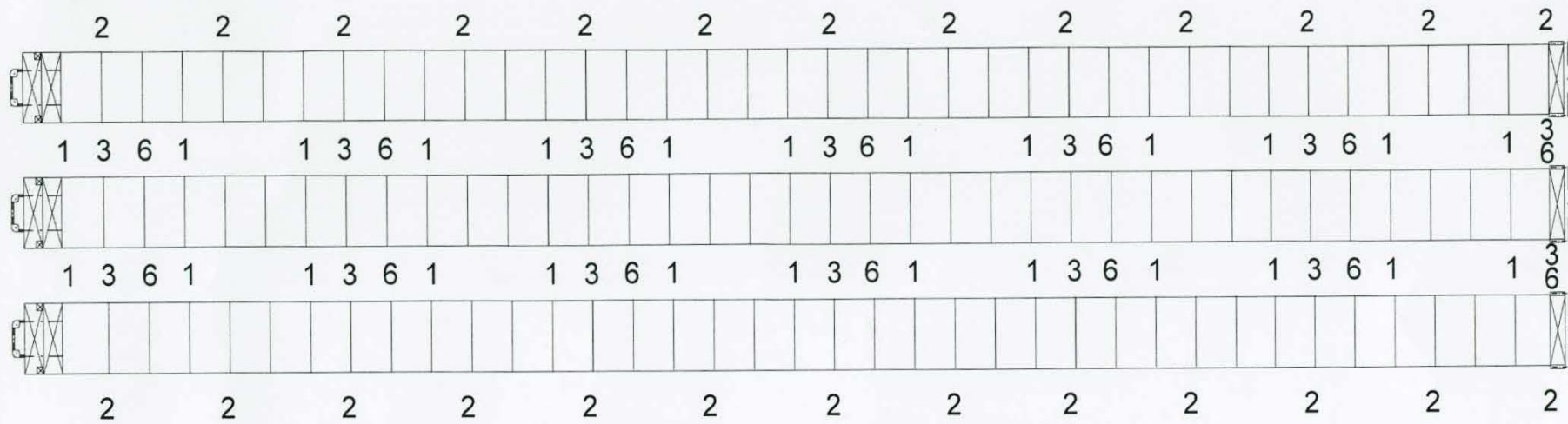


# Light (Production)

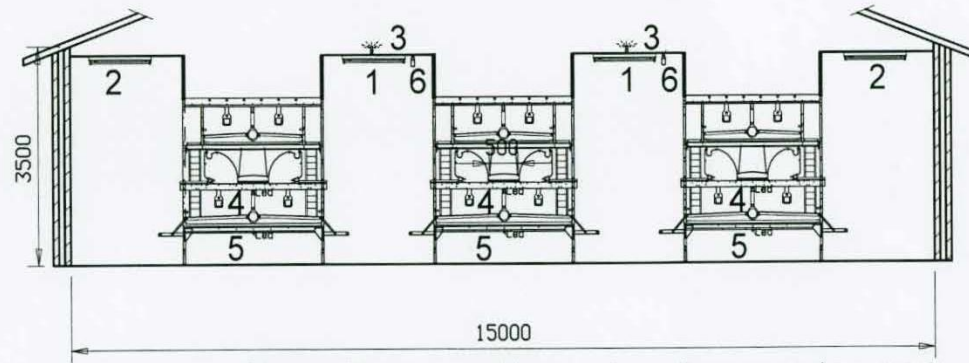
Measure number of LUX, avoid bright light spots (feather pecking)  
avoid dark spots (floor-eggs)



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- 1, 2 = 18W HF Armature et tube fluorecent, regulable, 0-10V Couleur 830 chaque 4.5m
- 3 = Lampe a miroir, regulable, 60W chaque 9 m
- 4, 5 = LED d'eclairage dans le systeme
- 6 = Feux bleus, regulable, 20W chaque 9 m



House Cross section, view from service room

**WARNING!**

To ensure that the details on this drawing are correct we would ask you to check and confirm this drawing  
 - Check and confirm all measurements of the construction.  
 - When part of the equipment is delivered by other firms we cannot be held responsible for the correct details and function.



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Revision	Remarks	Rev.date / Illustrator
Name: <i>D'eclairage systeme des volieres</i>		
Customer name :	Made by :	Date :
Dealer name :	Belongs to : J	Amerikaanse Projecte
Order no. :	Drawing no. : J	formal : A3







# The first evenings...

- The birds, if possible, have to be placed and unloaded in the house at noon or early afternoon. (this requires good scheduling!)
- Make sure there are enough people around the first evenings.
- Every evening, all the birds have to be in the system!



# The first evenings...

- Slat ramps – additional perches for an easier access into the system when the birds have difficulties to enter the system.
- *.....Even important after a few flocks.....*

# The first evenings..







# The first evenings...

- Attracking the birds into the system with dimmable lights.
  - *First days by hand, not by computer*
- Tools -> Laserpens
- Falling birds of the system (in the dark period)

**And then it goes on...**



**And then it goes on...**

















# And then it goes on...

- Remove birds from the levels without water.
- Closing system underneath  
(if present)
  - *And / or opening the entire system when the concept has this feature*
  - *Start to open the system a.s.a.p!!!!*



# Alfalfa (Luzerne)





# Start production

- Start of daylight period
- Day length extending
  - *Morning and evening?*
  - *Only when the flock is ready for stimulation!*
  - *Depends on local situation & circumstances*



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# Start production – Floor eggs

- Open the nests not before first eggs are laid – females must be kept curious
- Nest, water and feed has to be located in a circle of 3-4 meters
- Nests should be placed in the centre of the house
- Slats need a gradient of 7° towards the nest
- Make sure, that drinkers and feed chains are not an invitation to lay eggs underneath them
- Locate drinkers preferably in the front of the nests

# Preventing Floor Eggs

- Don't run the feed chain during the time that the eggs are being laid
- Prevent direct light shining into the nests
- Collect floor eggs as soon as possible
- When you find eggs on the slats early in the morning, check your lighting program
- A sudden increased number of floor eggs during the production period can be an indication for lost condition or a disease or red mites.
- Make sure, that all birds sleep on the slats from the first day on
- Keep the level of litter low during production

# Start production – Floor eggs



# Start production – Floor eggs



# Start production – Floor eggs





# Start production – Floor eggs



# Floor eggs - Lighting

- Light intensity
  - *At placement*
  - *Later on for stimulation and preventing floor eggs!*
- System lights
- Avoiding dark spots / shade
  - *Use of LUX meter*



# Quality of water

- Every day fresh water
- Vaccinating or other additives by the water system (Clean before and after!!!)
- Test the drinking water on a regularly base

# Quality of water





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# Feed



# Feed



# Conclusion

*An excellent manager will still be able to perform with acceptable results although the circumstances are not perfect*

***but...***

*A manager with poor skills will be able to spoil the birds (& the results) even in a Situation with the best circumstances!!!*

# Questions????

