

Make a plan before the start of production







Make a plan before transfer

Determine the strategic road with:

Advisors from the hatchery, feed suppliers, Veterinarian and other involved

parties!





Make a plan before transfer!!

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





Make a plan before transfer

Physical stress

- Injury
- Disease
- Environmental
- Performance

Psychological stress

- Fight or flight
- Hierarchy
- Social

Biological stress

- Rest and Digest
- Reproduction
- Circadian Rhythm



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 transition feed or Layerfeed on early age! STRESS
- ➤ NO light stimulation in Hours/Intensity before 17 weeks! STRESS
- ➤When you need to lock-up the pullets, then not for long! (Max 1 week) STRESS







Make a plan before transfer!!

➤ 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.



Make a plan before transfer!!

- Preparing for placement
 - ➤ 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. 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!

TRANSFER TO PRODUCTION FARM





STOCKING DENSITY IN THE LAYING HOUSE

The birds should have enough space, especially in hot climates!

When pullets are closed inside the aviary system, keep them only closed for a few days!!!! Important is not only 8.9 bird/m2/living space, but even more important that there is enough feed/water/nest box per bird in the house. (a minimal recommendation is given in table 5).

Overstocking has a strong impact on mortality, body weight and uniformity, feathering status and finally eggs laid per hen. In addition, local legislation should be respected.

Table 5: Stocking density at production house

| Equipment | Requirements* |
|---|---|
| Stocking Density | 475 – 750 cm²/hen** |
| Drinkers Round drinkers Linear drinkers Nipple drinkers | 1 drinker (Ø 46 cm) for 125 hens 1 running meter for 80–100 hens 1 nipple for 8–10 hens (access to 2 nipples/hen) |
| Feeders Round feeder Chain feeder | 1 feeder (Ø 40 cm) for 25 hens 10 – 15 cm / hen |
| Nest Familiy type nest boxes Familiy nest in family cages Single nest (26 x 30 cm) | 120 hens / m³ 50 cm²/hen (42 to 65 cm² 4 to 6 hens per nest |

^{*} These recommendations should be adjusted to meet local regulations.

H&N Cage-Free Mangement Guide https://hn-int.com/

^{**} includes all the available space



Make a plan before transfer

- 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
- ❖ Use (low level litter) material on the floor.





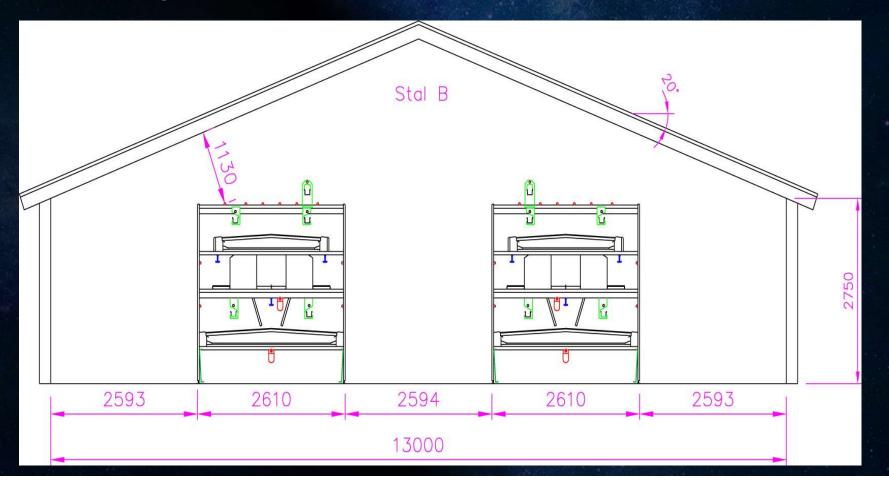
Keep eyes open!







Make a plan before transfer!!





Clean water

Flush drinkers before housing pullets!

Clean the water system before housing new flock, and on a regulary base during production period.

Test the water on a regularly base





Make a plan before transfer

- Correct & Fresh Feed available in the system before the birds arrive/housed.
- Feed level in the through the first days. (Feed management)





Feed Management







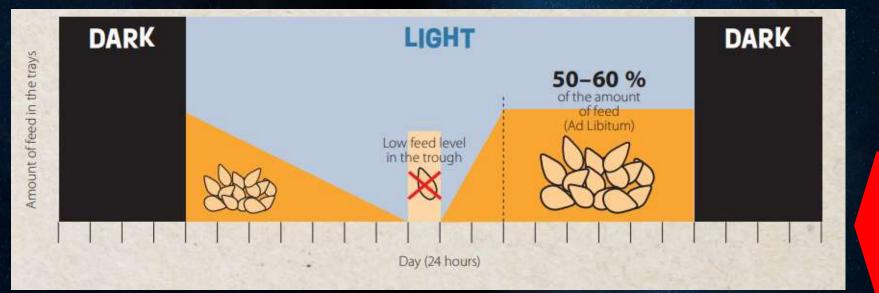
Feeding management

- In rearing period (age of 3-4 weeks)
- Start to empty the feeders first one or two times a week. (Keep an eye on behaviour of the flock)
- From 6 weeks of age, we train them to empty the feeders, ones every day.
- > Continue this also after transfer to production!



TRANSFER TO PRODUCTION FARM





Production



INTERNATIONAL

Measure LUX, avoid bright light spots (undesirable behavior) avoid dark spots (floor-eggs)





The first evening(s)

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





The first evening(s)

❖ Slat ramps – additional perches
For an easier access into the system when the birds have difficulties to enter the system.

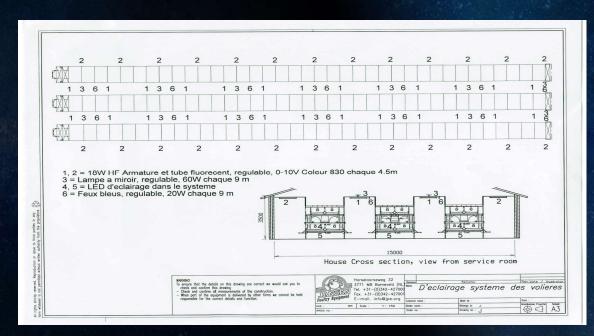
.....Even important after a few flocks.....

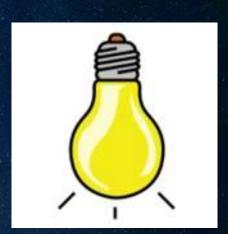




The first evening(s)

Dimming period copy from rearing.











And then it goes on...

- Check if needed to remove birds from the levels without water.
 Especially brown layers on higher levels without water!
- Open system underneath a.s.a.p (if present)





Start production

Enrichment







Dry litter to keep the hens busy





Alfalfa/luzerne

- We don't use alfalfa to feed our birds!
- We use alfalfa to see if everything is in good balance!
- **❖** When birds don't take alfalfa, they are in good balance.
- Advisable to use it during most stressfull period (17 till 30 weeks)



Source: J. Terhorst





HEN INTERNATIONAL

Lighting

- 1. Make the first light increase (hours) in production towards dusk untill first eggs are coming, and later ones towards dawn.
- 2. Depending on breeds:

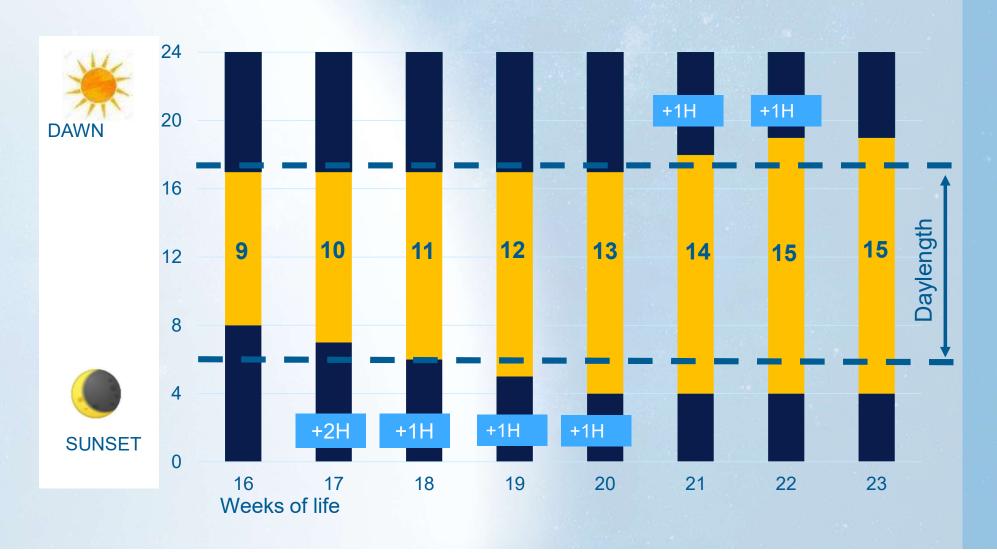
White Layers: 1 hour for the first light stimulation and then 1 hour/week

Brown Layers: 2 hours for the light stimulation and then 1 hour/week

- 3. Light stimulations of more than 2 hours at once might produce stress for the birds and has no beneficial effect.
- 4. light hours in production should be longer than 14 hours to allow enough time for feed consumption during the production period.
- 5. It is of no advantage to exceed to 16 hours of light because after this day length the birds do not increase their daily feed intake.

Start production







INTERNATIONAL

Nestbox management

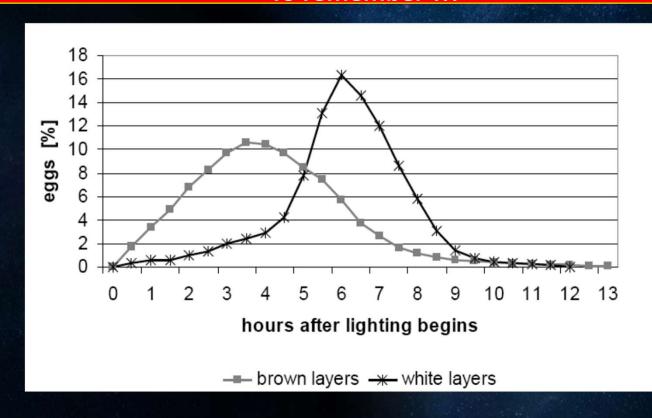
- Keep nestboxes closed during housing of the pullets
- Open the nestboxes few hours in the morning before onset production
- Open the nestboxes a few hours before start of daylenght. (When something is not working, you have some time to fix before start of production.)

Be there at start of production a few times a week, when lightperiod starts!





To remember !!!





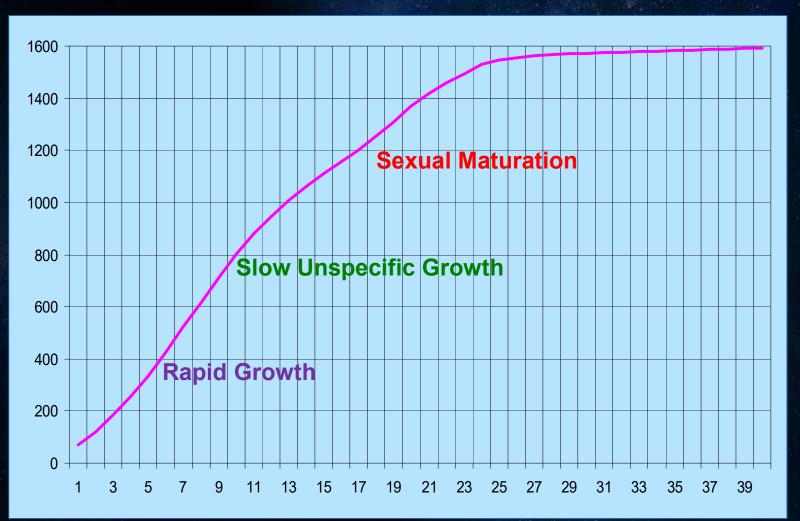


To remember !!!





Body Development during production



Start production

Check body weight weekly!







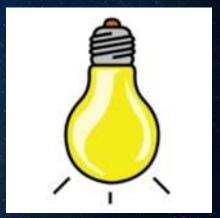




Light intensity

After piek production!

- Start to reduce LUX after piek-production.
- ❖ We can reduce light intensity with little steps every week. (1 LUX weekly)
- Start to switch off light (different levels) after laying period in second part off the day. (Aviary systems...)





After piek production!

Please check local regulations!







Wrong use of the nestboxes!

- ❖ To hide (selection non productive layers)
- ❖ To rest, and produce manure (Dirty eggs)

How can we prevent this wrong use?







Nestbox management

Wrong use of the nestboxes!

Close the nestboxes for a short time in the afternoon, and stimulate the birds to go out.

(Use that time to look voor non-productive birds!)

Start to close the nestboxes (after piek production) earlier at the end of the day. (Small steps!!!!)

(Floor/system should not increase in numbers!)



How to check correct feed/management

5 step check

- > Litter
- > Plumage
- Section
- Behaviour
- ➤ Body weight



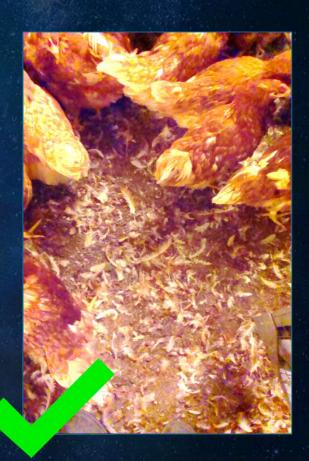


How to check correct feed/management

Litter

On the litter







Plumage

On the Bird





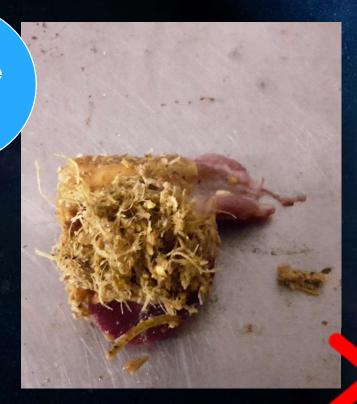




NTERNATIONAL

Section

Inside the Bird











Further.....

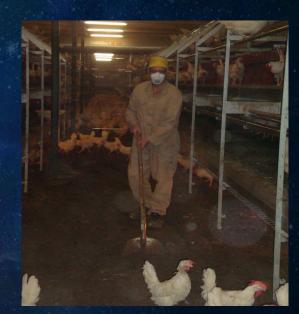
samples

- ❖ Take (& store) feed samples on a regularly bas (if necessary, investigate them.)
- Blood samples
 - ➤ At arrival of the birds, and if necessary (IB pressure for example), on a regularly base.
 - Store them in an ordered manner and investigate them when requested.



Litter management

- ➤ Prevention for floor eggs!
- > Especially white, but also brown layers
- ➤ Better climat (Ammonia)











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!!!



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