

# Two critical points in the rearing of premium pullets

Achieving good uniformity is not the biggest challenge during the rearing period of Hubbard Premium breeder females. As they take a fairly long time to clean-up the feeders, this allows for 85% uniformity to be exceeded from an early age and to be maintained throughout the rearing period.

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The most critical points in rearing are focusing on the natural early sexual maturity of the Hubbard Premium females. If the pullets come into lay too early, they are not able to ingest the amount of feed required to support their needs for production. This leads to a risk of broodiness and a drop in production after peak as well as reduced egg weights for several weeks.

The main objectives are to develop a good frame size during the first weeks, then to encourage the pullets to consume larger amounts of feed and finally to adjust the lighting programme to delay the onset of lay. It is also important to avoid any stimulation through nutrition between 16 weeks of age and 5% of lay. The priorities in the rearing phase can therefore be grouped into two critical points:

## Development of the pullets' appetite

### Achieving bodyweight targets in the first 10 weeks:

Rearing techniques can be introduced as soon as the chicks arrive in order to stimulate feed consumption and thus promote weight gain from the first few days of life.

- The use of an intermittent lighting programme until the age of 3-4 weeks (for example, between Day 0 and Day 7: 2 hours 30 minutes of light and 30 minutes of dark; to be adjusted depending on flock behaviour) stimulates the birds' activity and therefore their feed intake.

- The use of a pre-starter feed for the first 4-5 weeks of life (2,850Kcal/kg and 19% crude protein) also promotes weight gain right from the early weeks. A Starter feed (2,750Kcal/kg and 18-19% crude protein) can then be used up to eight weeks of age depending on the weight of the females.

### Feed and feeding technique:

- In terms of appetite, Premium breeder females are closer to laying hens than to conventional breeding stock. Feed clean-up time can easily exceed four hours in the rearing house. This therefore calls for good feed presentation, especially for the starter crumb (no fine particles).
- Development of the pullet's crop capacity is the main key to a good appetite in the production phase, especially as production increases.



The use of a 5/7 feeding programme from six weeks of age (to be adjusted depending on clean-up time and subject to applicable legislation) is essential to increase the pullet's eating capacity.

- In addition, switching to a grower and stronger energy-reduced feed (2,650Kcal/kg) allows the quantity of feed to be increased while

maintaining the birds' physiological appetite. The 100Kcal/kg reduction between starter and grower diets (at around 8-9 weeks) allows the feed quantity to be increased by 3g (in the case of a 55g ration) for the same calorie intake.

- For this transition to succeed, frame development should start within the first four weeks of life (refer to fasted bodyweights according to the breeder performance objectives, available on [www.hubbardbreeders.com](http://www.hubbardbreeders.com)).

**Table 1. Example of a slow step-down light programme for for Hubbard JA57 and JA87 females.**

Age (days)	Duration of light (hours)		Light intensity (lux)
	Hubbard JA57 females	Hubbard JA87 females	
0	24	24	To be adjusted depending on behaviour and weight gain
1	22	22	
2	22	22	
3	20	20	
4	20	20	
5	18	18	
6	18	18	
7	17	17	
8	17	17	
9	17	17	
10-14	16 hours 30 minutes	16	
15-28	16	15 hours 30 minutes	
29-35	15 hours 30 minutes	15	
36-42	15	14	5-10
43-49	14 hours 30 minutes	13	5-10
50-56	14	12	5-10
57-63	13 hours 30 minutes	11	5-10
64-70	13	10	5-10
71-77	12 hours 30 minutes	-	5-10
78-84	12	-	5-10

## Management of onset of lay in the rearing house

From 11 weeks of age, growth control should be stepped up to manage the females' physiological development and thus minimise stimulation of the pullets' sexual maturity related to bodyweight. To support the growth profile, a number of techniques can be employed to control the age at which pullets come into lay:

- The use of a slow step-down light programme for the breeder females only (see examples in Table 1) delays the start of sexual development in pullets.

- Use of a pre-lay feed after transfer only (around 20 weeks of age) and up to 1% daily lay.

- Introduction of light stimulation (+1 hour/week) after 154 days. The light intensity will need to be adjusted depending on flock behaviour, while maintaining a minimum of 60 lux.

Of course, this article only explains a general approach. The Hubbard Technical Manager in your area will be able to tailor these techniques more closely to the practical situation of each customer. ■