



## THE INSIDE CHIRP

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# WHY ASSESS CROP FILL?

AVIAGEN MANAGEMENT ESSENTIALS



- Assessment of crop fill at key times after placement is a useful means of determining appetite development and checking that all chicks have found feed and water. • If adequate crop fill is not achieved, appetite development will be depressed, early growth rate
- will be compromised, feed conversion ratio (FCR), average daily gain and skeletal development will be below the desired levels and flock uniformity and processing performance will be affected. Monitoring of brooding procedures.



spot brooding is used).

THE PROCEDURE FOR ASSESSING CROP FILL

**Equipment** 

Crop fill should be monitored during the first 48 hours, but the first 24 hours are the most critical.

2. A pen or pencil. 3. Paper to record crop fill.

1. A catching frame.

- **Procedure**

### An initial check 2 hours after placement will indicate if chicks have found feed and water. Subsequent checks at 8, 12, 24, and 48 hours after arrival on farm are required to assess

appetite development. Step 1 Using the catching frame, collect 30 - 40 chicks in total; approximately 10 chicks at a time from 3 - 4 different places in the house (or surround where

Step 2 Handling each chick Step 2 with care, gently feel the crop of each chick in the pen using your

thumb and forefinger. Step 3 Record the content of the crop of each chick using the following categories: • Full, soft, and rounded - Chicks have found feed and water.

• Full but hard with original feed texture felt - Chicks have feed but little / no water. Crop empty - Chicks have not found feed or water. Step 4 Calculate the percentage (%) of chicks in each category by dividing the number of chicks recorded in each category by the total number of chicks assessed and multiplying by 100. Compare your results with the target crop fill assessment guidelines in the Step 5 respective chart below. Example of crop fill recording sheet. Hours after placement: **Category:** Number of chicks in category 1: Full, soft and rounded ## ## **## ##** ##

### % Chicks in category 1 (Full. soft and rounded)

**EXAMPLE CALCULATION:** 

3: Empty

Number of chicks in category 1 X 100 Total number of chicks assessed 30 · x 100 35 Chicks in category 1 86% measured at 8 hours after placement Target crop fill assessment guidelines. Time of Crop Fill Check After Placement **Target Crop Fill** 

(% of Chicks with Full Crops)

**75** 

>80

>85

>95

100

Action required

Further investigation of brooding

practices required

24 Hours

2 Hours

8 Hours

12 Hours

48 Hours

INTERPRETING RESULTS Crop fill on or above target guidelines. No action required

Areas to consider:

## • Ensure chick comfort is optimum by monitoring and adjusting if needed: Air temperature at chick height

**Environment** 

 Litter temperature Relative humidity

• Ensure ventilation rates are correct for young chicks.

• Ensure that houses are pre-heated prior to chick arrival.

Crop fill 5% below target guidelines

(e.g. 75% or lower at 8 hrs after placement).

- Ensure light intensity is at the optimum level in the brooding area.
- Ensure that at least 80% of the floor area is covered in paper with feed on. • Replenish feed on paper in small amounts given frequently.

• Ensure chicks have unrestricted access to feed and water.

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Feed and water

- Ensure supplementary (mini) drinkers are used.





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