

| Questionnaire laying period  | Answer Options  |
|--|---|
| Housing System   | Floor / Aviary  |
| Manufacturer and Type of the Aviary                                      |   |
| Number of laying hens in the flock                                       |   |
| Wintergarden available   | Yes / No  |
| Free range available   | Yes / No  |
| Hens confined to part of the barn (e.g. aviary compartment) at placement | Yes / No  |
| If yes, length (days) and stocking rates (hens/m <sup>2</sup> )          |   |
| Total area of barn (length x width)                                      |   |
| Usable area of barn (length x width)                                     |   |
| Aviary: Number of tiers / size (length x width)                          |   |
| Mixed flock  | Yes / No, if yes: percentage/hybrid line  |
| Hybrid line(s)   |   |
| Number of staff attending to the flock                                   |   |
| Specialization of staff  | Farmer / Family members / trained staff / semi-skilled staff  |
| Number of animal inspections per day                                     |   |
| Number of minutes spent with the birds in the barn per day               |   |
| Extra animal inspections after placement                                 | Yes / No  |
| Catching and inspection of individual birds                              | Yes / No  |
| If yes, reasons  | General inspection / weighing / others  |
| Electronic scales in the barn  | No /Yes: plate scales / perch scales  |
| Hens easy to catch   | Yes / No  |
| Regular pest control   | Yes / No  |
| If yes, how many times   |   |
| No of times manure belt is running                                       |   |
| Day of life perches are available  | From placement / From day of life ...   |
| Day of life litter is available  | From placement / From day of life ...   |
| Litter material  |   |
| Current Litter depth (cm)  |   |
| Litter quality   | Completely dry and flaky, i.e. moves easily with the foot / Dry but not easy to move with foot / Leaves imprint of foot and will form a ball if compacted, but ball does not stay together well / Sticks to boots and sticks readily in a ball if compacted / Sticks to boots once the cap or compacted crust is broken |
| Litter renewel   | Yes / No  |
| Enrichment   | Ytong stones / straw bales / loose straw / hey / gras / others: ....  |
| Additional dust bath   | Yes / No  |
| If yes, dust bath material   | Sand / rock flour / dust / other  |
| Daylight available   | Yes / No  |
| If yes, window material  | Glass / synthetic material / both   |
| % window:floor surface area  |   |
| Possibility to black out windows   | Yes / No  |
| Dim phase  | Yes / No  |
| Dim phase  | Yes / No  |
| Length of dim phase in minutes   |   |
| Light program according to management guides                             | Yes / No  |
| Artificial light   | Low frequency tubes/ high frequency tubes/ LED-hoses / energy saving lightning bulbs / conventional lightening bulbs  |
| UV-Spectrum  | Yes / No  |
| Electronic ballast   | Yes / No  |
| Color of artificial light  |   |
| Emergency light  | Yes / No  |

|   |                                     |
|---|-------------------------------------|
| Emergency power generator                                       | Yes / No                            |
| Vaccination program according to management guides              | Yes / No                            |
| Current Diseases  | Yes / No                            |
| Current veterinary diagnoses                                    |                                     |
| SOP with injured/ill birds                                      | ward / killed / remain in the flock |
| Current problems with red mite                                  | Yes / No                            |
| Regular mite control  | Yes / No                            |
| If yes, times and means used                                    |                                     |
| Current problems with feather pecking                           | Yes / No                            |
| If yes, age at which the problem started                        |                                     |
| Current problems with cannibalism                               | Yes / No                            |
| If yes, age at which the problem started                        | Yes / No                            |
| Average mortality in former rearing periods                     |                                     |
| Number of cadavers found in the barn                            |                                     |
| Injured birds in the barn                                       | Yes / No                            |
| Elevated perches  | Yes / No                            |
| Form of perches   | Round / angular / mushroom shaped   |
| Material of perches   | Metal / plastic / wood              |
| Diameter of perches   |                                     |
| Total length of perches (cm)                                    |                                     |
| Ventilation system  | Underpressure / overpressure        |
| Subjective Air quality  | Good / medium / poor                |
| Subjective detection of ammonia                                 | Yes / No                            |
| Subjective amount of dust in the air                            | Low / medium / high                 |
| Feeding system  | Chain / round trough                |
| Total length of feed chains or number and size of round feeders |                                     |
| Feed structure  | Floury / pellets / other            |
| Grit available  | Yes / No                            |
| Drinking system   | Nipple drinkers / other             |
| Total number of drinkers  |                                     |

| <b>Questionnaire rearing period</b>   | <b>Answer options</b>  |
|---|--|
| Housing System  | Floor Rearing / Rearing Aviary                               |
| Manufacturer and Type of the Aviary   |  |
| Number of Pullets in the flock  |  |
| Pullets reared in a different facility during the first 5 weeks of life?                | Yes / No   |
| Pullets confined to part of the rearing facility (e.g. aviary compartment) at placement | Yes / No   |
| If yes, length (days) and stocking rates (pullets/m <sup>2</sup> )                      |  |
| Total area (length x width)   |  |
| Usable area (length x width x height)   |  |
| Aviary: Number of tiers / size (length x width)   |  |
| Mixed flock   | Yes / No, if yes: percentage/hybrid line                     |
| Hybrid line(s)  |  |
| Number of staff attending to the flock  |  |
| Specialization of staff   | Farmer / Family members / trained staff / semi-skilled staff |
| Number of animal inspections per day  |  |
| Number of minutes spent with the birds in the barn per day                              |  |
| Extra animal inspections after placement  | Yes / No   |
| Catching and inspection of individual birds   | Yes / No   |
| If yes, reasons   | General inspection / weighing / others                       |

|  |   |
|--|---|
| Electronic scales in the Barn                      | No /Yes: plate scales / perch scales  |
| Pullets easy to catch                              | Yes / No  |
| Floor area of the barn (m <sup>2</sup> )           |   |
| Regular pest control                               | Yes / No  |
| If yes, how many times                             |   |
| No of times manure belt is running                 |   |
| Day of life perches are available                  |   |
| Day of life litter is available                    | From placement / From day of life ...   |
| Litter material                                    |   |
| Current Litter depth (cm)                          |   |
| Litter quality                                     | Completely dry and flaky, i.e. moves easily with the foot / Dry but not easy to move with foot / Leaves imprint of foot and will form a ball if compacted, but ball does not stay together well / Sticks to boots and sticks readily in a ball if compacted / Sticks to boots once the cap or compacted crust is broken |
| Litter renewal (times and height in cm)            |   |
| Enrichment   | Ytong stones / straw bales / loose straw / hey / gras / other, please specify: ....   |
| Additional dust bath                               | Yes / No  |
| If yes, dust bath material                         | Sand / rock flour / dust / other  |
| Daylight available                                 | Yes / No  |
| If yes, window material                            | Glass / synthetic material / both   |
| % window:floor surface area                        |   |
| Possibility to black out windows                   | Yes / No  |
| Dim phase  | Yes / No  |
| Dim phase  | Yes / No  |
| Length of dim phase in minutes                     |   |
| Light program according to management guides       | Yes / No  |
| Artificial light                                   | Low frequency tubes/ high frequency tubes/ LED-hoses / energy saving lightning bulbs / conventional lightening bulbs  |
| UV-Spectrum  | Yes / No  |
| Electronic ballast                                 | Yes / No  |
| Color of artificial light                          |   |
| Emergency light                                    | Yes / No  |
| Emergency power generator                          | Yes / No  |
| Vaccination program according to management guides | Yes / No  |
| Current Diseases                                   | Yes / No  |
| Current veterinary diagnoses                       |   |
| SOP with injured/ill birds                         | ward / killed / remain in the flock   |
| Current problems with red mite                     | Yes / No  |
| Regular mite control                               | Yes / No  |
| If yes, times and means used                       |   |
| Current problems with Featherpecking               | Yes / No  |
| If yes, age at which the problem started           |   |
| Current problems with cannibalism                  | Yes / No  |
| If yes, age at which the problem started           | Yes / No  |
| Average mortality in former rearing periods        |   |
| Number of cadavers found in the barn               |   |
| Injured birds in the barn                          | Yes / No  |
| Additional feeding at placement                    | Chick paper / plates / other /none  |
| Elevated perches                                   | Yes / No  |
| Form of perches                                    | Round / angular / mushroom shaped   |
| Material of perches                                | Metal / plastic / wood  |

|   |                              |
|---|------------------------------|
| Diameter of perches   |                              |
| Total length of perches (cm)  |                              |
| Ventilation system  | Underpressure / overpressure |
| Subjective Air quality  | Good / medium / poor         |
| Subjective detection of ammonia   | Yes / No                     |
| Subjective amount of dust in the air  | Low / medium / high          |
| Feeding system  | Chain / round trough         |
| Total length of feed chains or number and size of round feeders               |                              |
| Feed structure  | Floury / pellets / other     |
| Grit available  | Yes / No                     |
| Drinking system   | Nipple drinkers / other      |
| Total number of drinkers  |                              |
| Coordination with laying farm concerning feeding, lighting and housing system | Yes / No                     |