





# PRACTICE ABSTRACT

# Foraging of broilers in outdoor areas

#### Problem

Access to outdoor areas is mandatory in organic poultry production. Stimulating organic broilers to use outdoor areas can be a challenge if there is only sparse vegetation without trees and bushes outside the houses.

Establishing attractive areas is necessary to increase the number of broilers going outside. A combination of smaller open areas with grass and herbs as well as areas with different bushes and trees, where the broilers can feel safe, will stimulate the chickens to use a larger part of the outdoor areas (see figure 1). Choice of genotypes can be important, as some genotypes are more active than others.

#### Benefits

Having access to an attractive outdoor area will stimulate the broilers to be more active and forage, which contributes to a more natural behaviour. Active broilers are expected to have fewer food pad lesions, which is important for the birds' welfare. In addition to higher activity, grass, herbs and/or crops in the outdoor area can provide the birds with nutrients.

#### **Practical recommendation**

Select plant species that are robust and adjusted to the climate such as caraway (Carum carvi), red clover (Trifolium pratense), chicory (Cichorium intybus), plantain (plantago major (broadleaf)/Plantago lanceolate (lan-

# **Applicability box**

#### **Theme**

Broilers, feeding and ration planning

#### Geographical coverage

Global

#### **Application time**

Outdoor areas can be used all year round; however, in a colder climate, winter periods can be difficult and winter gardens are recommended.

#### Required time

Planting outdoor areas takes time and new bushes and trees as well as grass/herbs have to be protected from birds for 1 to 2 years.

#### **Period of impact**

The planting period is critical. Newly planted trees or bushes can be protected by fencing.

#### **Equipment**

Equipment for planting trees and bushes, movable fences

#### Best in

Slow-growing trees, e.g. fruit trees, can be sheltered by fast-growing nurse trees, e.g. willow or poplar. Planting time will depend on climate and weather conditions.



Figure 1: An protective environment encourages the birds to use the outside area. Photo: Sanna Steenfeldt, Aarhus University



Figure 2: Planting some trees in rows from the broiler houses will encourage the birds to leave the house and spread far into the outdoor areas. Photo: Sanna Steenfeldt, Aarhus University









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- Fencing off part of the plants might be necessary until they have reached a size that makes them less vulnerable to birds eating leaves and smaller branches.
- Planting some trees in rows from the broiler houses will encourage the birds to leave the house and spread far into the outdoor areas (see figure 2).
- Combine trees and bushes with smaller open areas with grass/herbs or even crops that encourage foraging
  activity and other natural behaviour such as dustbathing, which is good for animal welfare.
- Choice of genotype is important. Very fast growing genotypes are not suitable for establishing a population with active animals.
- During cold winter periods, broilers are less motivated to go outside; a veranda system (winter garden), where silage can be provided, is recommended.

#### **Further information**

### **Further reading**

- Steenfeldt, Sanna (2014) Chickens foraging in the woods. DCA's monthly external newsletter, June 2014, Available at http://orgprints.org/28724/1/28724.pdf
- Steenfeldt, Sanna Diversitet og integritet i økologisk slagtefjerkræproduktion- MultiChick, Aarhus Universitet. Available at http://icrofs.dk/fileadmin/icrofs/Nyheder PDf/MultiChick/MultiChick folder Final.pdf
- Almeida, G. et al. (2012) Feed intake and activity level of two broiler genotypes foraging different types of vegetation in the finishing period. Poultry Science 91(9):2105-13. DOI:10.3382/ps.2012-02187

#### Weblinks

Check the Organic Farm Knowledge platform for more <u>practical recommendations on animal husbandry</u>.

## About this practice abstract and OK-Net EcoFeed

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Project website: ok-net-ecofeed.eu

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