

www.animalgeneticresources.net ERFP

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pediaree software.



The DNA % of an animal that descends from common ancestors. It ranges from 0 to 100%.



## Relationship coefficient

The DNA % of two different animals descending from the same ancestor.



# Mean Kinship (MK)

Average kinship of an animal with all other animals in the population. The lower its MK, the more important an animal is for the diversity of the breed.



• Relationship between rooster and hen • Mean Kinship rooster with population

# Look at the Mean Kinship.

## When is inbreeding too high?

A limit is difficult to determine. As a rule of thumb: the better the pedigree, the more ancestors are known, the higher the inbreeding. At least avoid common ancestors in the last three generations and choose animals with a low MK.



## Pitfalls and misunderstandings.

- P Do not mate inbred animals. Inbreeding is not heritable.
- Inbreeding should be banned. All animals are inbred if you go back far enough.
- **?** Do not mate carriers of genetic defects. ! All animals carry genetic defects.
- Inbreeding is actually good to capture genetic traits. Unintentionally genetic defects are captured as well.



WAGENINGEN