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Can we still learn from the ancient Romans? - Recommendations for keeping laying hens in the Roman Empire versus EU welfare regulations

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German edition of Varro's "De re rustica" from 1730 (Univ. of Vet Med. Hanover, Library). Varro begun his original Latin work in his 80th year, 36 BC; he died 27 BC. The welfare of laying hens in modern housing systems is one of the most disputed animal welfare topics over the last 30 years in Europe. Sometimes it is helpful to look back to our ancestors how they kept their animals. Table 1 compares most important requirements of the present animal welfare regulation for laying hens in the EU (Council Directive 1999/74/EC) and the recommendations given in the books on agriculture by Marcus Terentius Varro (116-27 BC, De re rustica 3,2 - 3,11), Lucius Iunius Moderatus Columella († ca. 70 AD, De re rustica 8,2 - 8,15) and in the medieval Geoponica (10th century AD, book 14, 7-17), how laying hens should be kept in the Roman Empire. It turns out that the ancient recommendations fit very well with our recent and "modern" welfare legislation for laying hens.

Table 1: Most important requirements for laying hens today and 2000 years ago





Laying hens and two cocks in front of a mobile braided hen house (Tacuinum sanitatis, ca. 1390, Lombardei, Cod. Vindob. ser. nov. 2644, fol 65r). [Published and commented by Ruth M. Hirschberg (2010). Haustiere im Mittelatter: Gefügel und sein Halturn Karfinkel - Kirbei m Mittelatter 3 76:791



Laying heris intra comunit. Induct view of a rehouse (Taculum sanitatis, ca. 1390, Lombardei, Cod. Vindob. ser. nov. 2644, fol 659), [Published and commented by Ruth M. Hirschberg (2010): Haustiere im Mittelatter: Gefügel und seine Haltung. Karfunkel - Küche im Mittelatter 3, 26-29] Perches, laying nests, litter for dust bathing and protected outdoor scratching areas were obviously provided for hens in practice already 2000 years ago. It is interesting to read that the animal caretaker had a separate room in the laying hen barn where he prepared the feed and from where he was able to supervise the animals. Herds of 200 birds seemed to be common in those days. When comparing our present regulation and the early recommendations only two striking differences appear. (1) Herd size and animal density were much lower in ancient days, although clear figures of birds/m² are missing. (2) Access holes in the wall to the outdoor scratching area were placed high under the roof and not close to the floor as today. This may indicate that laying hens of those days were still able to fly high. Outdoor scratching areas were covered by nets protecting the hens from prey birds and preventing them from escaping across the solid walls around the outdoor areas providing shelter from predators like foxes.

Conclusion: Already in the Roman Empire farmers looked very closely after their laying hens and designed hen houses which met most of modern EU regulations and of the Five Freedoms (Brambell Report 1965, UK). The principles of good feeding, safe housing, protection from fear and unnecessary pain and satisfying behavioural needs were well recognised and described. The farmers in those days did not spend millions of research money to find out about the needs of hens and of "welfare quality", they just followed their human sense and tried to grant their birds a "life worth living". It took us nearly 2,000 years to re-discover this animal-friendly attitude.



Grimani, February, Flanders, ca. 1510, Venice Similario, February, Flanders, ca. 1510, Venice



Diese Hühner machen mobil
New ways on old paths ...
"Modern" mobile laying hen house.







