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Title: Effect of free-range access, shelter type and weather conditions on free-range use and welfare of slow-growing broiler chickens

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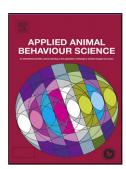
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### ACCEPTED MANUSCRIPT

# Effect of free-range access, shelter type and weather conditions on freerange use and welfare of slow-growing broiler chickens

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#### **Highlights**

- Better use of the free-range area may benefit broiler chicken welfare
- Short rotation coppice attracted more chickens to the free-range area than A-frames
- Hock dermatitis occurred or tended to occur less in chickens with free-range access
- Non-fearful groups may be more likely to range further from the house
- Cold, rain, increased radiation and wind speed negatively affected free-range use

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