

Measuring and Auditing Broiler Welfare

Edited by
C.A. Weeks and
A. Butterworth



CABI Publishing

Contents

Contributors	ix
Foreword	xi
<i>Ian Duncan</i>	
Introduction	xiii
<i>Claire Weeks</i>	
Part 1: Outcomes (Animal-based)	
1 Lameness	3
<i>J. Mench</i>	
2 Measuring and Auditing the Welfare of Broiler Breeders	19
<i>P.M. Hocking</i>	
3 Pododermatitis and Hock Burn in Broiler Chickens	37
<i>C. Berg</i>	
4 Evaluating the Impact of Metabolic Disorders on the Welfare of Broilers	51
<i>R.J. Julian</i>	
5 Infectious Disease: Morbidity and Mortality	61
<i>A. Butterworth</i>	
6 Abnormal Behaviour and Fear	71
<i>G.S. Sanotra and C.A. Weeks</i>	

Part 2: Inputs (Resource-based)

- | | |
|---|-----|
| 7 The Significance of Biosecurity to Broiler Welfare | 81 |
| <i>M. Pattison</i> | |
| 8 Feed | 87 |
| <i>S.H. Gordon, A.W. Walker and D.R. Charles</i> | |
| 9 Light | 101 |
| <i>N.B. Prescott, H.H. Kristensen and C.M. Wathes</i> | |
| 10 Air Hygiene | 117 |
| <i>C.M. Wathes</i> | |
| 11 Stocking Density | 133 |
| <i>W. Bessei</i> | |
| 12 Transport and Handling | 145 |
| <i>M.A. Mitchell and P.J. Kettlewell</i> | |
| 13 Primary Processing of Poultry | 161 |
| <i>S. Wotton and L.J. Wilkins</i> | |

Part 3: Welfare and Auditing Issues

Section 1: Production Systems

- | | |
|---|-----|
| 14 Comparing Welfare in Different Systems | 183 |
| <i>S.M. Haslam and S.C. Kestin</i> | |
| 15 Human Factors Influencing Broiler Welfare | 197 |
| <i>P.H. Hemsworth and G.J. Coleman</i> | |

Section 2: Examples of Auditing Schemes and their Effectiveness in Assuring Welfare

- | | |
|--|-----|
| 16 Auditing Systems: Are We Effective? | 207 |
| <i>P. Cook</i> | |
| 17 Is UK Farm Assurance Delivering Good Welfare? | 215 |
| <i>D.C.J. Main and H.R. Whay</i> | |
| 18 Using Welfare Outcomes to Control Intensification: the Swedish Model | 223 |
| <i>C. Berg and B. Algers</i> | |

19 Developing and Implementing a Welfare Audit in the Australian Chicken Meat Industry	231
<i>J.L. Barnett and P.C. Glatz</i>	
Section 3: Ethical, political and future perspectives	
20 Does Broiler Welfare Matter, and to Whom?	241
<i>D.B. Morton</i>	
21 Public Attitudes and Expectations	251
<i>M.C. Appleby</i>	
22 A Global Perspective on Broiler Welfare Standards	257
<i>P. Lymbery</i>	
23 Measuring Broiler Chicken Behaviour and Welfare: Prospects for Automation	267
<i>L.P.J.J. Noldus and R.G. Jansen</i>	
Part 4: Poster Papers	293
Index	305