

Scenario 1 - Broilers

Score sheet

Legal stocking density of 39kgm2

Name of scorer: Expert 3

First round comments

Welfare principles	Welfare criteria		1st round score			2nd round score			First round comments
			90% certain lower bound	90% certain upper bound		90% certain lower bound	90% certain upper bound		
Good feeding	1	Provision and access to food. Animals should have appropriate access to the quantity and quality of appropriate foodstuffs for health and wellbeing.	55	40	75	55	40	75	<p>I mainly used Mullan et al 2021- all UK broiler data for 7 years https://www.nature.com/articles/s41598-021-91347-4 and Rayner et al 2020- trial of slower growing and s.d. on farm, although max s.d. 34kg https://www.nature.com/articles/s41598-020-72198-x</p> <p>I have scored this for a typical RT farm (38kg/m2, 'fast' growing breed, windows, platforms and pecking objects 1/1000</p>
	2	Provision and access to water. Animals should have appropriate access to the quantity and quality of water for health and wellbeing.	95	90	98	90	80	98	
Good housing	3	Animals should have comfort when resting.	30	20	50	30	20	50	
	4	Animals should have thermal comfort being neither too hot nor too cold.	80	60	90	80	60	90	
	5	Animals should have sufficient space to move freely.	40	30	50	40	30	50	
Good health	6	Animals should be free from injuries and disorders (e.g. skin conditions, lameness, bone fractures etc.)	25	20	40	25	20	40	
	7	Animals should be free from disease, including metabolic conditions, with high standards of health care and hygiene.	40	35	60	40	35	60	
	8	Animals should not suffer pain - for example as a result of poor management, handling, surgical or other procedures, slaughter etc.	50	40	60	50	40	60	
Appropriate behaviour	9	Animals should be able to express normal, non-harmful social behaviours (such as grooming and social bonding).	50	40	60	50	40	60	
	10	Animals should be able to express other normal behaviours (e.g. foraging, exploring).	30	20	50	30	20	50	
	11	Animals should be handled well with positive and not negative animal-human relationships.	20	10	30	20	10	30	
	12	Additional aspects not already adequately covered above in relation to the balance between positive and negative affective states for animals.	/	/	/	40	30	60	

Scenario 1 - Broilers

Score sheet

Legal stocking density of 30kgm2

Name of scorer: Expert 3

First round comments

Welfare principles	Welfare criteria		1st round score			2nd round score			First round comments
			90% certain lower bound	90% certain upper bound		90% certain lower bound	90% certain upper bound		
Good feeding	1	Provision and access to food. Animals should have appropriate access to the quantity and quality of appropriate foodstuffs for health and wellbeing.	55	40	75	55	40	75	<p>I used Rayner et al again, to tease out s.d. rather than breed effect but also Shynkaruk 2023 https://www.sciencedirect.com/science/article/pii/S1056617123000168 and the EFSA opinion https://efsa.onlinelibrary.wiley.com/doi/full/10.2903/j.efsa.2023.7788</p>
	2	Provision and access to water. Animals should have appropriate access to the quantity and quality of water for health and wellbeing.	95	90	98	90	80	98	
Good housing	3	Animals should have comfort when resting.	35	20	50	35	20	50	
	4	Animals should have thermal comfort being neither too hot nor too cold.	80	60	90	80	60	90	
	5	Animals should have sufficient space to move freely.	50	40	60	50	40	60	
Good health	6	Animals should be free from injuries and disorders (e.g. skin conditions, lameness, bone fractures etc.).	25	20	40	25	20	40	
	7	Animals should be free from disease, including metabolic conditions, with high standards of health care and hygiene.	40	35	60	40	35	60	
	8	Animals should not suffer pain - for example as a result of poor management, handling, surgical or other procedures, slaughter etc.	50	40	60	50	40	60	
Appropriate behaviour	9	Animals should be able to express normal, non-harmful social behaviours (such as grooming and social bonding).	55	40	60	55	40	60	
	10	Animals should be able to express other normal behaviours (e.g. foraging, exploring).	35	20	50	35	20	50	
	11	Animals should be handled well with positive and not negative animal-human relationships.	20	10	30	20	10	30	
	12	Additional aspects not already adequately covered above in relation to the balance between positive and negative affective states for animals.	/	/	/	40	30	60	