

Inhaltsverzeichnis

1	Einleitung	1
2	Manuskript 1	5
2.1	Abstract	5
2.2	Introduction	6
2.3	Materials and Methods	7
2.3.1	Animals, Housing and Experimental Design	7
2.3.2	Diets and Feeding Concept	8
2.3.3	Measurements	12
2.3.3.1	Technical Performance	12
2.3.3.2	Excreta and Litter Sampling	12
2.3.3.3	Foot Pad Dermatitis Scoring Criteria	12
2.3.3.4	Dissection	13
2.3.3.5	Histological Investigations	13
2.3.3.6	Analysis of Feed, Excreta, and Litter Samples	13
2.3.3.7	Estimations of Efficiencies of Nitrogen or rather Protein Utilisation	14
2.3.4	Statistical Analysis	14
2.4	Results	15
2.4.1	Technical Performance	15
2.4.2	Excreta and Litter Quality	17
2.4.3	Footpad Dermatitis	20
2.4.4	Histological Investigations	21
2.5	Discussion	22
2.6	Conclusion	25
3	Manuskript 2	29

3.1	Simple Summary	29
3.2	Abstract.....	30
3.3	Introduction	30
3.4	Materials and Methods	32
3.4.1	Animals, Housing, Experimental Design, and Feeding Concept.....	33
3.4.2	Measurements.....	39
3.4.2.1	Technical Performance.....	39
3.4.2.2	Litter Sampling.....	39
3.4.2.3	Footpad Dermatitis (FPD) Scoring Criteria.....	39
3.4.2.4	Dissection	39
3.4.2.5	Histological Investigations	40
3.4.2.6	Analysis of the Breast Meat.....	40
3.4.2.7	Analysis of Feed and Litter Samples.....	41
3.4.3	Statistical Analysis	41
3.5	Results	42
3.5.1	Technical Performance.....	42
3.5.2	Litter Quality and Footpad Dermatitis	43
3.5.3	Results of Dissections	45
3.5.4	Histological Investigations.....	47
3.6	Discussion.....	48
3.7	Conclusion.....	52
3.8	Appendix	54
4	Übergreifende Diskussion.....	60
4.1	Allgemeine Leistungsparameter	60
4.2	Bewertung der Fußballengesundheit	62

4.3	Stickstoffgehalt der Einstreu sowie der Exkremente.....	63
4.4	Histologie der Ileumzotten	65
4.5	Analyse des Brustfleisches	66
4.6	Schlussfolgerung	67
5	Zusammenfassung.....	68
6	Summary	71
7	Literaturverzeichnis.....	74
8	Danksagung.....	82