

TABLE OF CONTENTS

SUMMARY	9
CHAPTER I	
General introduction	11
Thesis aim and objectives	21
CHAPTER II	
A reliable method to assess keel bone fractures in laying hens from radiographs using a tagged visual analogue scale	23
CHAPTER III	
Keel bone fractures affect egg laying performance but not egg quality in laying hens housed in a commercial aviary system	37
CHAPTER IV	
Keel bone fractures alter the mobility of individual laying hens in aviary systems	57
CHAPTER V	
General discussion	77
Final conclusion	87
Outlook and perspectives	87
REFERENCES	91
ACKNOWLEDGEMENTS	111
CURRICULUM VITAE	113
APPENDIX	121