

TABLE OF CONTENTS

TITLE PAGE	i
UNDERGRADUATE THESIS	ii
DECLARATION OF AUTHENTICITY	iii
PREFACE	iv
TABLE OF CONTENTS	vi
LIST OF FIGURES	x
LIST OF TABLES	xi
LIST OF APPENDIX	xii
ABSTRACT	xiii
CHAPTER I . INTRODUCTION	1
1.1. Background	1
1.2. Research question	3
1.3. Aims of the study	3
1.4. Impact of the study	3
CHAPTER II. LITERATURE REVIEW	5
2.1. Pear	5
2.2. Photosynthesis	8
2.3. Chlorophyll	8
2.4. Ethylene	9
2.5. Quality of parameters	11
2.5.1. Skin color	11
2.5.2. Flesh firmness	12
2.5.3. Starch content	13
2.5.4. Sugar content	13
2.6. Bagging Treatment	14
2.7. Hypothesis	14
CHAPTER III METHODOLOGY	16
3.1. Place and time of research	16
3.2. Instruments	16
3.2.1. Tools	16
3.2.2. Plant materials	16
3.3. Research Procedures	17
3.3.1. Bagging treatments and sampling	17
3.3.2. Determination of ethylene production	17
3.3.3. Determination of peel color	18
3.3.4. Determination of flesh firmness	19
3.3.5. Alcohol Insoluble Solid (AIS) preparation	19
3.3.6. Sugar content analysis	20
3.3.7. Starch content analysis	21
3.4. Statistical Analysis	22
3.5. Experimental Design	22



CHAPTER IV RESULTS AND DISCUSSION.....	24
4.1. Colorimetric values	24
4.2. Ethylene production	26
4.3. Flesh firmness	27
4.4. Starch content.....	30
4.5. Sugar content.....	32
CHAPTER V CONCLUSION AND SUGGESTION	33
5.1. Conclusion	33
5.2. Future work	33
REFERENCES.....	35
APPENDICES	41