

**LIST OF CONTENTS**

	Pages
ENDORSEMENT FORM.....	ii
DECLARATION .....	iii
ASSESSMENT COMMITTEE OF RESULT SEMINAR .....	iv
ASSESSMENT COMMITTEE OF THESIS SEMINAR .....	v
SUMMARY .....	vi
ABSTRACT.....	viii
ACKNOWLEDGEMENT .....	ix
LIST OF CONTENTS .....	xii
LIST OF TABLES .....	xiv
LIST OF FIGURES.....	xv
LIST OF APPENDICES .....	xvi
ABBREVIATION AND SYMBOLS .....	xvii
<b>CHAPTER I INTRODUCTION</b>	
1.1 Background .....	1
1.2 Problem Statement .....	3
1.3 Research Aim .....	3
1.4 Research Outcome .....	3
1.5 Theoretical Base.....	3
<b>CHAPTER II LITERATURE REVIEW</b>	
2.1 Etawa Crossbred Goat.....	7
2.2 Reproductive Cycle.....	8
2.2.1 Puberty.....	8
2.2.2 Estrus Cycle .....	8
2.2.3 Fertilization.....	10
2.2.4 Pregnancy .....	10
2.2.5 Parturition .....	11
2.3 Reproductive Hormones.....	12
2.3.1 Gonadotropin-releasing Hormones (GnRH).....	12
2.3.2 Follicle Stimulating Hormones (FSH) and Luteinizing Hormones (LH) .....	13

2.3.3 Estrogen .....	13
2.3.4 Progesterone .....	14
2.3.4.1 Progesterone in Blood .....	15
2.3.5 Prostaglandin .....	16
2.4 ELISA (Enzyme Linked Immunosorbent Assay) .....	16
2.4.1 Indirect Sandwich ELISA .....	18
CHAPTER III MATERIALS AND METHODS	
3.1 Experimental Design .....	19
3.2 Sample and Sample Size .....	19
3.2.1 Research Sample.....	19
3.2.2 Research Sample Size.....	19
3.3 Observed Variable.....	19
3.3.1 Independent Variable.....	19
3.3.2 Dependent Variable .....	19
3.3.3 Controlled Variable .....	19
3.4 Variable Operational Definition.....	20
3.5 Research Location and Time.....	20
3.6 Research Materials and Equipment.....	20
3.6.1 Experimental Animal.....	20
3.6.2 Research Materials.....	21
3.6.3 Research Equipment .....	21
3.7 Research Methods .....	21
3.7.1 Estrus Synchronization .....	21
3.7.2 Blood Collection.....	21
3.7.3 Serum Harvesting .....	21
3.7.4 Measurement of Progesterone Concentration.....	22
3.8 Data Analysis .....	22
3.9 Research Flowchart.....	23
CHAPTER IV RESEARCH RESULT	
4.1 Overview of Progesterone Profile .....	24
CHAPTER V DISCUSSION	
5.1 Progesterone Concentration .....	25
CHAPTER VI CONCLUSION AND SUGGESTION	
6.1 Conclusion.....	31
6.2 Suggestion.....	31
References.....	32
Appendices.....	43

**LIST OF TABLES**

Table	Page
4.1 Mean and Standard Deviation Progesterone Concentration .....	24

**LIST OF FIGURES**

Figure	Page
2.1 Etawa Crossbred.....	8
2.2 Progesterone Concentration of Etawa Crossbred Does .....	15
2.3 Indirect Sandwich ELISA .....	18
3.3 Research Flowchart .....	23
4.1 Progesterone Concentration Graphics of Etawa Crossbred does .....	24

**LIST OF APPENDICES**

Appendix	Page
1. Ethical Clearance .....	43
2. Research Data of Etawa Crossbred does.....	44
3. Progesterone Hormone Examination Results.....	45
4. Data Analysis .....	47
5. Research Materials and Equipment.....	48
6. Research Documentation .....	49

**ABBREVIATIONS AND SYMBOLS**

CL	= Corpus Luteum
DDGS	= Distiller Dried Grains with Solubles
ELISA	= Enzyme Linked Immunosorbent Assay
FSH	= Follicle Stimulating Hormone
LH	= Luteinizing Hormone
GnRH	= Gonadotropin Releasing Hormone
IARC	= International Agency for Research on Cancer
INF $\tau$	= Interferon-Tau
Ng/ml	= nanogram per miliiter
P4	= Progesterone
PGs	= Prostaglandins
PGF	= Prostaglandin E
PGE	= Prostaglandin F
PGF2 $\alpha$	= Prostaglandin F 2 alfa
RNA	= Ribonucleic Acid
UPT PT-HMT	= Unit Pelaksana Teknis Pembibitan Ternak dan Hijauan Makanan Ternak
$\mu$ l	= mikroliter