APPENDIX IVb

REPRODUCTIVE DEFINITIONS

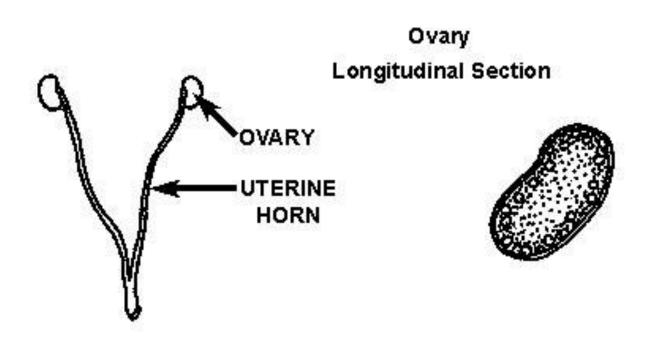
Wyoming Game and Fish Lab Staff: Tom Moore, Bill Hepworth

I. Ovarian Structures

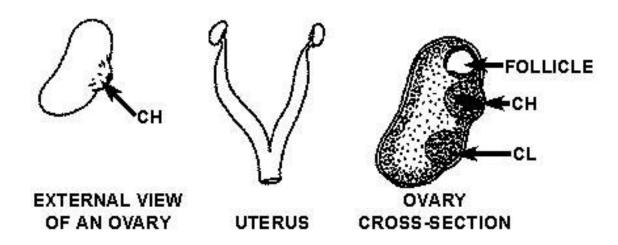
- A. Corpora hemorrhagica (CH) Appear as small blood-filled spots on the external surface of the ovary. They are present only if the animal has ovulated very recently. CH are formed at the site of each follicular rupture.
- B. Corpora Lutea (CL) These structures form in the ovary at the site of each follicular rupture. CL evolve from CH, however, unlike the CH they are not always visible on the surface of the ovary. Since they evolve from CH, their presence indicates a longer elapsed time from ovulation than is indicated by CH. The ovary must be sectioned longitudinally to determine if CL are present. CLs are generally an orange-pink color and are homogeneous in texture.
- C. Follicles are clear fluid filled sacs of varying size.

II. <u>Uterine Condition</u>

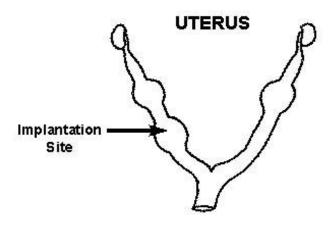
A. Anestrus – During anestrus there is no reproductive activity. The uterus is limp and collapsed in appearance. This condition is illustrated below.



B. Estrus – During estrus reproductive activity is imminent or in progress. The uterus is turgid and distended. At this time, either follicles, CH or CL may be present, depending upon the progression of the ovulation process. This condition is illustrated below:

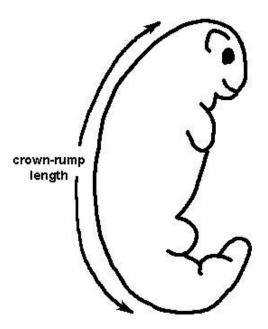


C. Pregnant – During pregnancy the uterus is very distended and turgid. Pregnant reproductive tracts cannot be identified macroscopically until the embryonic sites become pronounced. A reproductive tract in early pregnancy is illustrated below.



III. Crown-Rump Length (C-R)

A. Crown-rump length is the standard fetus measurement. The age of the fetus can be determined from this statistic. C-R is measured from the top of the head along the curvature of the back to the base of the tail.



IV. General Considerations

- A. Right or left measurements <u>always</u> refer to animal's right or left.
- B. When reproductive tracts are preserved, 75% ethanol is suitable as a "short duration" fixative (up to six weeks). For permanent fixation use "AFA" solution and prepare as follows:

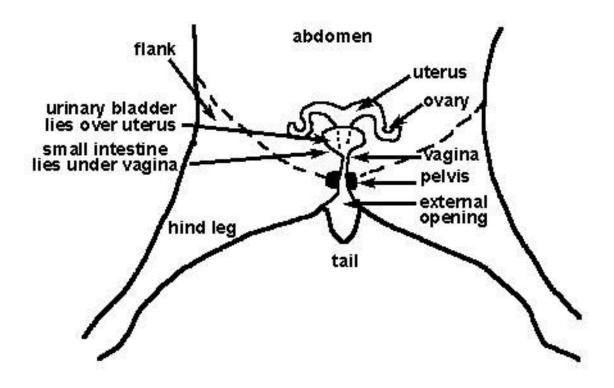
Distilled water	50%
95% ethyl alcohol	30%
40% formalin	10%
Acetic acid	10%

If these ingredients are not available, you may obtain this fixative through the Laramie Veterinary Services Laboratory.

C. When reproductive tracts are preserved, label the identifying number with pencil, as most ink is soluble in alcohol.

DIAGRAM AND INSTRUCTIONS FOR COLLECTING

Reproductive Tract and Teeth of Female Big Game Animals



PLEASE COLLECT THE FOLLOWING ITEMS FROM YOUR DOE AND BRING THEM TO ONE OF THE CHECK STATIONS.

- 1. Collect the <u>ovaries</u> (2) and the <u>uterus</u> from the doe. Try To keep them in <u>one</u> piece. Place them in the plastic Bag you have been provided and seal it with on of the Numbered tags.
 - *It is important that these organs do not dry out.
- 2. Be sure you have the head attached to the carcass as we will want to collect teeth and the head will also be needed for evidence of sex.

Be sure to return the plastic bag and its contents to one of the check stations.

Thank you for your cooperation.

Wyoming Game and Fish Department

FIELD COLLECTION AND POST MORTEM DATA SHEET

1.	Species		5.	Date		
2.	Species Sex		6.	Location		
3.	Age		7.	Time Collected		
4.	Identification No.		8.	Collected By		
				Collected By		
9. <u>n</u>	VEIGHTS:	T 1		T		
	Whole	Lbs.	j.	Lungs	g.	
b.		Lbs.	k.	Heart		
-	<u> </u>	Lbs.	1.	Thyroid	g.	
c.		Lbs.		Adrenals	g.	
d.			m.		g.	
e.		Lbs.	n.	Pituitary	g.	
f.		Lbs.	0.	Other		
g.		Lbs.				
h.	1	g.				
i.	J	g.				
	Hog dressed wt Eviscerated with h					
*	** Clean dressed wt. – Carcass with vis	scera, h	ide, h	ead, and legs removed at ki	nees and	
	hocks.					
10. S	STOMACH CONTENTS:					
a	. Total wt.		b.	Total vol		
11. N	MEASUREMENTS (in.):					
a.			f.	Horn or antler		
	a. Total length (nose tall tip)					
b.	b. Tail length		g.	Fetus CR length & Sex a.		
	Tun rengui		8.	b.		
				c.		
c.	Hind foot			Fat depth – brisket		
.	Tillia 100t		h.	<u>-</u>		
4	For (notch to tin)			rump		
d.	\ 17			0.1		
e.	Shoulder muscle		i.	Other		
12. (GENERAL BODY CONDITION					
	OTHER SAMPLES COLLECTED:					
	lood					
b. Fat f						
c. Bone g						
d. Striated muscle h						
	SEL EL DIZO					
14. F	REMARKS:					
14. F	REMARKS:					

Necropsy Protocol

Herd name/location	erd name/location Animal ID (if any)					
Location: Township Range _		ge Sec	ction	or UTM		
	SVL Accession # Date of necropsy					
Species	Age	Sex				
Weight "live"	Dres	sed weight				
Hair coat quality:	Excellent Go	od Fair Poor	Very Poor			
Species and number	of external paras	sites:		_ Collected?		
_	_					
Body Muscle (0-5)	Back	fat score: 0	5 1	.0 15		
		KidneysOmentum S				
Bone Marrow Color				• •		
Internal Exam:						
Species and number	of internal paras	itac:		_Collected?		
species and number	of internal paras	1103.		_concetcu:		
No fetuses:	Weight: #1:	#2.	Sex·#1·	#2:		
Crown-Rump: #1:	_ \\\ \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Crown		# 2:		
Crown Rump. #1		Clown	1 1105C 111			
Tissues fixed:		Tissues taken for	· laboratory ev	aluation:		
Hissues Hacu.		1155des taken for	indoratory ev	araation.		
Heart		Fecal (parasitology) Abo wash				
Liver		Blood (red tops) X 2				
Spleen		Blood (purple to				
Lung						
Tongue						
		Others (fist).				
Muscle		Tissues frozen:				
Kidneys						
Rumen		Liver	_			
Reticulum		Kidneys	_			
Omasum		Brain				
Abomasum		Rumen contents				
Ileum		Muscle for DNA				
Gonads		Fat				
Brain		Feces				
Pancreas						
Ileocecal LN						
Bladder						
Bone Marrow						
Retropharvngeal LN						