

**APPENDIX 5.**

TABLE I.

*The Age in Days and the Weight in Pounds of the Large Black and Large White Gilt at the Age of Sexual Maturity.*  
(N.B.—Litter mates are grouped.)

LARGE BLACKS.						LARGE WHITES.					
Pig No.	Age.	Wght.	Pig No.	Age.	Wght.	Pig No.	Age.	Wght.	Pig No.	Age.	Wght.
17	279	191	102	250	163	17	216	178	100	248	222
18	201	130	105	231	250	18	223	173	101	260	217
19	202	142	108	171	176	19	231	185	102	201	153
20	212	150	109	174	249	36	249	206	103	346	307
21	190	116	110	214	185	37	245	203	104	210	165
22	213	161	111	285	238	47	209	243	105	270	235
23	213	156	112	248	270	49	212	278	106	232	167
24	208	172	115	281	259	50	197	219	109	207	184
30	206	197	116	293	161	54	188	178	113	247	150
38	179	201	118	204	181	56	213	161	115	217	122
41	165	184	121	210	202	57	214	202	116	219	164
44	230	203	124	194	182	59	208	175	118	252	186
45	181	174	125	217	187	62	213	198	119	232	190
46	181	153	126	226	173	63	214	188	121	183	159
47	180	120	128	192	242	64	213	150	122	247	195
48	200	169	129	202	208	65	207	141	123	161	115
49	218	128	130	269	174	66	203	190	124	184	171
50	209	168	131	222	200	68	206	172	125	209	166
52	242	230	136	194	188	69	216	187	128	212	146
55	191	171	137	183	164	70	209	170	131	200	163
56	201	165	138	224	155	71	196	163	132	223	172
57	243	150	143	178	222	72	188	198	134	205	174
58	236	172	143	222	165	73	187	165	134	245	164
59	216	188	144	229	170	74	188	192	136	225	178
60	210	151	145	217	183	75	185	180	137	241	157
62	236	168	146	227	156	76	187	200	138	230	131
63	209	152	148	196	166	77	181	129	140	205	138
69	242	143	151	256	194	79	184	121	142	177	141
83	237	155	153	202	187	80	187	256	143	221	138
94	249	141	154	202	168	82	183	194	145	249	195
97	218	126	155	194	217	96	205	186	146	250	204
100	248	140	155	194	213	98	201	186	147	205	181
101			221		176						

TABLE II.

*Frequency Distribution of the Interval of Pro-oestrus and Metoestrus.*

Class Interval (Hours).	PRO-OESTRUS.		METOESTRUS.	
	Large Blacks Number.	Large Whites Number.	Large Blacks Number.	Large Whites Number.
0	31	30	0	4
3	32	36	30	28
6	25	46	74	72
9	39	36	84	67
12	29	36	71	50
15	23	23	33	20
18	26	16	16	19
21	13	22	4	3
24	6	19	4	7
27	7	13	0	—
30	3	5	1	—
33	3	11	2	—
36	3	4	—	—
39	3	4	—	—
42	3	3	—	—
45	5	2	—	—
48	1	3	—	—
51	—	4	—	—
54	1	—	—	—
57	1	—	—	—
60	1	—	—	—
63	—	—	—	—
66	—	—	—	—
69	1	—	—	—

TABLE III.

*Sample Page of Pen-record Book.*

Date.	Hour.	PIG No.				Remarks.
		186	187	196	198	
11.9.43.....	3 a.m.....	SS	H	ss	sS	No. 186 served 10.30 p.m. by L.B. boar No. 15.  Coitus=3 min. 30 sec. Temp.=102·3 F.
	6 a.m.....	SB	H	ss	SS	
	9 a.m.....	SB	LH	ss	SS	
	12 noon....	SB	LH	sS	SS	
	3 p.m.....	H	LH	sS	SS	
	6 p.m.....	H	OH	sS	SS	
	9 p.m.....	H	—	sS	SS	
	12 m.n.....	H	—	sS	SS	

TABLE IV.

*Duration (in Hours) of Consecutive Oestrous Periods in Large Black and Large White Gilts Commencing at Puberty Oestrus.*

(N.B.—Litter mates are grouped.)

LARGE BLACKS.					LARGE WHITES.				
Pig No.	1st Puberty.	2nd	3rd	4th	Pig No.	1st Puberty.	2nd	3rd	4th
48	48	48	42	57	17	48	48	45	42
49	57	48	54	57	19	48	42	39	36
50	60	69	60	51	62	45	45	39	39
52	51	57	63	63	63	39	30	36	33
54	42	78	42	66	64	57	54	45	45
39	63	69	66	54	65	48	54	66	48
57	69	60	60	69	67	54	48	51	45
60	45	45	57	60	68	60	45	45	42
63	75	78	78	—	69	57	57	54	45
89	57	60	54	63	70	63	54	51	51
100	60	57	60	54	71	48	54	54	51
101	39	45	60	57	72	54	63	60	—
102	60	54	54	60	73	57	48	45	51
108	69	36	63	87	74	48	42	42	42
110	54	60	72	—	76	54	57	51	48
111	78	84	78	—	79	36	36	39	39
112	60	69	72	60	80	45	48	42	36
116	57	54	66	—	82	39	45	33	30
121	57	69	51	69	96	48	48	48	51
123	51	54	51	—	98	69	66	66	—
124	54	57	60	—	100	60	69	60	—
125	69	69	75	63	101	60	57	60	—
126	54	57	72	48	102	51	72	63	—
128	60	51	51	—	104	45	51	60	—
132	57	51	60	51	105	54	66	60	—
130	51	72	69	—	106	72	69	66	—
131	51	66	63	—	109	45	54	54	—
134	54	66	66	75	113	45	54	69	—
136	33	78	87	—	116	54	51	48	—
137	45	75	72	—	118	51	36	36	42
138	69	72	66	66	119	69	63	60	60
144	84	57	66	—	121	48	66	63	—
145	48	96	69	84	122	48	75	72	—
147	27	54	54	—	123	45	48	75	51
151	60	75	66	—	124	57	57	57	63
153	57	66	69	—	125	42	45	54	—
154	54	51	54	66	126	48	48	51	—
155	81	78	75	48	128	69	51	54	—
156	54	84	72	72	132	33	33	36	33
157	69	75	75	66	143	45	42	48	48
161	90	75	48	87	145	30	48	39	30
163	48	48	72	72	154	42	51	57	45
166	75	66	72	78	156	45	54	45	45
171	72	72	81	75	167	84	45	45	36
173	81	78	78	75	170	36	33	45	36
176	72	69	72	69	177	39	33	36	27
178	48	57	60	78	180	36	39	57	57
180	69	63	60	54	182	39	36	45	39
182	63	81	63	69	183	57	51	54	57
184	51	60	66	54	184	30	15	33	42
186	60	60	66	54	188	45	36	39	39
188	54	69	63	66	190	27	24	27	30
193	60	57	60	72	193	45	24	36	39
195	36	63	60	66	195	33	24	36	33
206	54	63	63	60	191	33	27	36	39
211	54	63	66	54	—	—	—	—	—
217	63	57	54	51	—	—	—	—	—
221	60	60	66	66	—	—	—	—	—

TABLE V.

*Duration (in Hours) of Gilt, Sow, Postpartum and Postweaning Types of Oestra in Large Black and Large White Pigs.*

GILT.		SOW.		POSTPARTUM.		POSTWEANING.	
Large Black.	Large White.	Large Black.	Large White.	Large Black.	Large White.	Large Black.	Large White.
48	48	63	45	66	87	66	54
57	48	75	54	57	87	63	54
60	45	72	66	66	60	72	60
51	39	69	48	90	66	72	84
42	57	75	57	72	93	66	57
69	48	90	60	132	93	69	42
45	54	48	54	84	36	48	69
63	60	42	39	117	54	63	54
75	57	69	45	72	36	66	33
57	63	84	45	54	30	51	51
60	48	75	66	84	63	63	51
39	54	63	45	51	81	66	45
60	57	66	54	54	39	66	54
69	48	66	33	75	45	81	51
54	54	90	45	93	57	75	69
78	36	66	48	63	51	51	51
60	45	81	45	84	72	66	54
57	39	72	51	51	66	60	81
57	48	57	72	78	81	72	54
51	69	66	57	60	90	72	45
54	60	51	63	66	72	78	51
69	60	57	60	60	57	42	57
54	51	57	45	51	57	69	48
60	45	78	48	63	42	75	51
57	54	72	48	63	81	51	72
51	72	66	48	36	60	72	54
51	45	66	45	75	69	63	72
54	45	64	48	60	63	69	45
33	54	63	72	81	30	33	51
45	51	48	60	54	—	72	118
69	69	63	45	69	—	72	60
84	48	63	66	81	—	63	57
48	48	60	36	72	—	63	45
27	45	63	48	63	—	84	45
60	54	63	39	75	—	54	66
57	42	66	42	36	—	72	72
54	48	69	39	60	—	51	63
81	69	69	54	54	—	54	—
54	33	57	57	57	—	45	—
69	45	60	48	45	—	75	—
90	30	69	42	51	—	78	—
48	45	72	42	45	—	54	—
75	42	93	48	75	—	63	—
72	84	60	45	75	—	102	—
81	36	78	57	99	—	—	—
72	39	69	42	—	—	—	—
48	36	81	48	—	—	—	—
69	39	105	42	—	—	—	—
63	57	84	39	—	—	—	—
51	30	93	45	—	—	—	—
60	45	54	48	—	—	—	—
54	27	63	48	—	—	—	—
60	45	63	54	—	—	—	—
36	33	63	48	—	—	—	—
54	33	72	57	—	—	—	—
54	—	51	—	—	—	—	—
63	—	66	—	—	—	—	—
60	—	75	—	—	—	—	—

TABLE VI.  
*The Duration (in Hours) of Oestrus and the Length of the Subsequent Oestrous Cycle and of Inter-oestrus.*  
 (N.B.—Litter mates are grouped.)  
*Large Whites.*

Pig No.	Oestrus.	Oestrous Cycle.	Inter-oestrus.	Pig No.	Oestrus.	Oestrous Cycle.	Inter-oestrus.	Pig No.	Oestrus.	Oestrous Cycle.	Inter-oestrus.	Pig No.	Oestrus.	Oestrous Cycle.	Inter-oestrus.			
17a	54	525	471	66	57	477	420	79	36	489	453	80	21	468	447			
	33	489	456		42	459	417		417	36	465		429	429	48	474	447	435
	45	471	426		48	477	438		429	39	474		447	417	39	486	447	447
18	51	468	417	68	57	474	441	82	21	468	447	82	21	468	447			
	45	480	435		39	459	420		441	45	540		495	462	45	540	495	
	48	504	456		42	456	411		411	42	447		447	447	42	447	447	
19	48	459	411	69	42	594	552	96	42	549	507	96	42	549	507			
	48	462	414		60	513	453		453	39	459		420	426	39	459	420	
	45	480	435		42	474	432		432	45	468		423	426	45	468	423	
21	42	483	441	70	45	399	399	71	45	471	426	100	45	456	444			
	33	477	444		48	648	600		600	51	480		426	426	60	504	444	
	42	465	423		45	624	579		579	57	483		438	438	60	504	444	
21	42	504	462	71	57	435	390	72	57	456	399	101	48	504	456			
	48	480	432		45	435	390		390	54	468		414	414	60	489	429	
	42	453	411		39	648	609		609	45	468		414	414	57	456	444	
32	39	486	447	72	45	636	591	73	63	495	432	102	48	492	444			
	36	486	450		39	501	462		462	51	510		459	459	57	456	444	
	39	441	402		39	642	603		603	54	480		432	426	51	480	429	
33	48	471	423	73	36	606	570	74	51	495	444	103	66	471	405			
	45	531	486		36	498	468		468	51	486		435	435	60	504	444	
	48	486	444		33	564	531		531	48	483		435	435	60	504	444	
47	45	507	459	74	40	498	468	76	54	489	435	104	60	489	429			
	48	513	465		36	624	576		576	54	480		426	426	57	456	399	
	57	489	432		36	507	471		471	51	486		435	435	66	462	399	
49	48	471	423	76	54	468	414	77	54	477	423	105	72	471	399			
	42	486	444		45	447	402		402	54	477		423	423	66	465	399	
	39	453	414		48	456	408		408	36	654		591	591	45	462	399	
50	54	477	423	77	57	459	402	80	57	459	402	106	45	660	615			
	45	489	444		48	456	408		408	48	447		414	414	45	660	615	
	45	465	420		48	456	408		408	45	447		414	414	51	501	456	
50	33	459	426	80	48	489	441	82	48	489	441	106	54	474	420			
	33	456	423		72	459	387		387	48	468		426	426	66	645	579	
	27	468	441		42	642	582		582	42	477		435	435	72	474	402	
50	54	474	420	82	45	459	402	82	54	492	438	109	69	444	375			
	42	627	585		36	459	423		423	54	477		420	420	45	447	402	
	36	447	444		48	471	423		423	51	486		435	435	54	600	546	
50	33	489	450	82	66	477	411	82	51	51	432	113	54	477	432			
	39	489	450		48	486	483		483	54	486		432	432	45	477	432	
	30	486	456		48	483	483		483	51	483		483	483	54	471	471	

TABLE VI (continued).  
*Large Whites* (continued).

Pig No.	Oestrus.	Oestrus Cycle.	Inter-oestrus.	Pig No.	Oestrus.	Oestrus Cycle.	Inter-oestrus.	Pig No.	Oestrus.	Oestrus Cycle.	Inter-oestrus.	Pig No.	Oestrus.	Oestrus Cycle.	Inter-oestrus.
116	54	447	393	126	48	462	414	146	39	462	423	166	33	510	477
118	51	441	390	128	48	609	561	147	66	471	405	167	84	522	438
119	36	462	414	132	51	639	588	148	33	471	438	168	45	489	444
	36	434	408	135	33	522	384	149	51	471	420		170	45	480
	63	528	459		137	36	468	489	150	39	462	423	177	36	474
121	60	495	426	138	60	465	432	152	45	483	438	180	36	480	444
	48	498	450	140	42	456	414		154	39	453		447	182	33
122	66	492	426	142	39	489	450	155	45	492	447	183	39	492	453
	48	645	597		42	42	435		414	157	51		436	435	183
123	75	672	597	143	42	477	435	159	57	498	441	165	36	450	414
	45	513	468		42	42	408		423	159	42		603	561	165
124	48	486	438	145	51	444	393	165	57	420	420	165	39	651	612
	75	498	423		45	48	462		414	165	42		459	402	165
125	42	507	456	145	45	507	462	165	57	516	459	165	36	471	432
	57	501	444		42	42	609		609	165	36		636	600	165
125	57	666	609	145	48	546	498	165	48	609	561	165	57	534	477
	57	663	606		30	48	498		468	165	48		480	432	165
125	42	465	423	145	48	468	420	165	39	459	420	165	54	633	579
	45	612	567		39	39	483		444	165	36		513	477	165
					30	462	432		36	477	441		57		
									33	657	624				

TABLE VI (Continued.)  
*The Duration (in Hours) of Oestrus and the Length of the Subsequent Oestrous Cycle and of Inter-oestrus.*  
 (N.B.—Litter mates are grouped.)

Large Blacks.

Pig No.	Oestrus.	Oestrous Cycle.	Inter-oestrus.	Pig No.	Oestrus.	Oestrous Cycle.	Inter-oestrus.	Pig No.	Oestrus.	Oestrous Cycle.	Inter-oestrus.	Pig No.	Oestrus.	Oestrous Cycle.	Inter-oestrus.
17	57	486	429	28	69	480	411	445	60	501	441	57	69	546	477
	69	498	429		63	495	432		417	54	471		417	486	60
18	72	474	402	29	63	663	600	46	54	459	399	92	60	495	438
	48	498	450		63	471	420		450	51	498		450	420	60
19	63	522	459	31	36	486	450	47	51	471	417	94	63	501	414
	66	522	456		66	513	447		447	57	465		408	537	60
20	69	513	444	32	66	492	426	48	60	480	420	100	45	480	435
	81	528	447		48	492	444		444	54	519		465	429	60
21	105	549	444	33	54	519	465	48	54	594	540	99	45	474	429
	84	540	456		66	513	447		447	54	519		465	429	89
22	51	471	420	34	69	489	420	49	51	504	453	102	57	522	465
	66	456	390		54	558	504		504	51	504		444	453	60
23	75	489	414	35	51	555	504	50	48	471	424	108	54	510	456
	63	531	468		51	492	441		426	48	471		424	447	60
24	54	447	393	40	51	492	462	52	57	483	426	111	51	498	447
	66	477	411		48	510	462		462	42	477		435	441	60
25	63	468	405	41	60	504	444	54	54	501	447	112	66	462	458
	63	468	405		60	498	438		438	48	492		444	444	60
26	51	513	462	39	63	471	408	49	48	483	435	102	75	501	426
	60	444	384		63	525	462		408	48	483		435	435	60
27	63	465	402	40	69	495	426	50	42	465	423	108	60	525	465
	63	465	402		66	495	426		426	57	480		423	423	60
28	57	468	411	41	66	513	447	52	42	477	435	111	60	501	441
	66	453	387		54	618	564		441	48	489		441	441	60
29	66	453	387	42	69	486	408	54	48	489	441	108	60	468	408
	63	489	426		57	513	456		456	54	492		444	444	60
30	66	429	363	42	75	495	420	50	48	609	555	108	60	507	447
	66	429	363		57	486	429		429	60	609		555	555	60
31	99	513	414	45	60	471	411	52	69	495	426	111	36	522	486
	57	507	450		51	549	498		498	60	489		429	429	63
32	51	492	441	45	51	549	468	54	51	462	411	112	78	486	408
	57	507	441		51	534	483		483	51	462		411	411	84
33	57	507	441	45	63	531	468	54	51	534	483	112	60	528	468
	57	507	441		57	525	468		468	51	534		483	483	60
34	51	663	612	45	63	525	459	54	63	510	447	112	69	528	468
	63	663	612		57	525	459		459	63	510		447	447	69
35	54	507	453	45	45	492	447	54	42	507	465	112	72	492	420
	54	507	453		45	492	447		447	42	507		465	465	72
36	54	474	420	45	78	540	462	42	78	540	462	112	60	495	435
	54	474	420		42	462	462		462	78	540		462	462	60

TABLE VI (continued).  
*Large Blacks (continued).*

Pig No.	Oestrus.	Oestrous Cycle.	Inter-oestrus.	Pig No.	Oestrus.	Oestrous Cycle.	Inter-oestrus.	Pig No.	Oestrus.	Oestrous Cycle.	Inter-oestrus.	Pig No.	Oestrus.	Oestrous Cycle.	Inter-oestrus.
116	57	540	483	134	54	534	480	156	54	558	504	171a	69	525	456
	54	507	453		66	522	456		84	528	444		75	537	462
121	57	540	483	136	66	522	456	157	72	578	606	176	72	549	477
	69	504	435		75	522	447		69	525	456		72	510	441
123	51	504	435	137	33	543	510	160	75	516	435	177	72	537	441
	69	465	396		78	525	447		75	510	441		78	555	477
124	60	507	447	138	45	546	501	161	66	615	549	178	78	555	477
	51	549	498		75	534	459		72	591	519		48	471	423
125	54	498	444	143	66	504	438	163	75	549	474	179	57	507	450
	54	531	477		66	507	441		48	492	444		69	510	444
126	57	642	585	144	57	516	459	164	48	561	513	180	66	510	444
	69	525	456		75	618	543		72	540	468		66	606	537
128	69	531	462	145	69	624	555	166	72	531	459	182	69	606	537
	75	489	414		84	465	381		60	531	471		63	555	492
130	63	525	462	147	57	489	432	170	81	597	516	183	63	525	462
	54	510	456		48	567	519		81	546	471		81	501	420
132	57	543	471	151	96	576	480	171b	66	540	474	184	63	498	435
	72	543	471		69	552	483		72	516	444		54	522	468
131	60	534	474	153	27	486	459	173	90	522	432	186	54	504	450
	51	495	444		54	513	459		75	678	603		60	498	438
132	51	498	447	154	52	576	534	187	72	489	417	187	66	513	447
	72	492	420		60	528	468		81	498	426		54	660	606
133	51	489	438	155	75	540	465	187	81	501	420	187	60	528	468
	66	489	423		57	606	549		81	516	435		60	537	471
133	57	558	501	155	66	570	504	187	78	504	426	187	66	537	471
	51	507	456		54	576	522		78	510	432		60	496	435
133	60	645	585	155	54	504	450	187	75	510	435	187	60	496	435



TABLE VII.  
*Details of Postpartum and Postweaning History.*  
 Large Blacks.

Sow No.	Service Date.	PARTURITION.		POSTPARTUM OESTRUS.		Parturi- tion to Oestrus (Hours).	Duration of Post- partum Oestrus (Hours).	WEANING.	
		Date.	Hour.	Date.	Hour.			Date.	Hour.
6a.....	20. 6.40	12. 10.40	10 p.m...	14. 10.40	12 N.....	38	66	1. 11.40	6 a.m.
9.....	11. 12.39	3. 4.40	*	*	*	—	—	29. 5.40	9 a.m.
9.....	22. 6.40	15. 10.40	7 p.m...	17. 10.40	9 p.m...	50	57	1. 11.40	6 a.m.
11.....	30. 11.39	23. 3.40	*	*	*	—	—	23. 5.40	10 a.m.
11.....	18. 6.40	9. 10.40	7 a.m...	11. 10.40	3 a.m...	44	66	1. 11.40	6 a.m.
12.....	—	10. 3.40	*	*	*	—	—	23. 5.40	10 a.m.
12.....	16. 6.40	8. 10.40	12 m.n...	9. 10.40	12 m.n...	24	90	1. 11.40	6 a.m.
13.....	19. 6.40	11. 10.40	8 p.m...	12. 10.40	6 p.m...	22	72	1. 11.40	6 a.m.
13.....	24. 11.40	17. 3.41	1 p.m...	18. 3.41	12 N.....	23	132	16. 5.41	9 a.m.
17.....	2. 5.40	24. 8.40	2 p.m...	26. 8.40	3 p.m...	49	—	24. 10.40	12 N.
18.....	*	*	*	—	—	—	—	20. 7.40	4 p.m...
18.....	25. 11.40	18. 3.41	5 a.m...	20. 3.41	3 a.m...	46	84	16. 5.41	10 a.m.
18.....	25. 9.41	17. 1.42	3 p.m...	20. 1.42	6 a.m...	63	117	14. 3.42	12 N.....
18.....	10. 4.42	1. 8.42	4 p.m...	3. 8.42	6 a.m...	38	72	28. 9.42	9 a.m.
18.....	22. 1.43	15. 5.43	5 a.m...	17. 5.43	3 a.m...	46	54	*	*
19.....	—	15. 5.40	*	*	*	—	—	12. 7.40	12 N.....
21.....	3. 5.40	24. 8.40	7 a.m...	26. 8.40	3 p.m...	56	—	24. 10.40	12 N. ...
22.....	6. 5.40	27. 8.40	6 a.m...	29. 8.40	12 N.....	54	—	28. 10.40	5 p.m...
23.....	—	3. 8.40	11 a.m...	5. 8.40	6 a.m...	43	—	27. 8.40	9 a.m...
23.....	21. 5.41	12. 9.41	5 a.m...	13. 9.41	9 a.m...	28	84	7. 11.41	9 a.m...
23.....	6. 12.41	1. 4.42	5 a.m...	2. 4.42	12 m.n...	43	51	27. 5.42	9 a.m. .
23.....	16. 6.42	6. 10.42	11 a.m...	7. 10.42	12 m.n...	37	54	†	†
23.....	1. 1.43	23. 4.43	5 a.m...	24. 4.43	9 a.m...	29	—	†	†
24.....	—	24. 7.40	9 p.m...	26. 7.40	12 m.n...	51	—	15. 8.40	4 p.m...
24.....	26. 12.40	20. 4.41	10 a.m...	21. 4.41	12 m.n...	38	75	30. 5.41	9 a.m...
24.....	19. 6.41	10. 10.41	12 N.....	12. 10.41	9 p.m...	57	93		
34.....	20. 2.41	16. 6.41	4 a.m...	17. 6.41	6 p.m...	38	63	11. 8.41	12 N.....
34.....	24. 2.42	22. 6.42	3 a.m...	24. 6.42	6 a.m...	51	84	¶	¶
41.....	11. 2.41	5. 6.41	8 p.m...	7. 6.41	12 N.....	40	51	31. 7.41	9 a.m...
41.....	5. 8.41	25. 11.41	4 p.m...	27. 11.41	9 p.m...	53	78	23. 1.42	9 a.m...
41.....	26. 2.42	24. 6.42	2 p.m...	26. 6.42	6 a.m...	40	60	19. 8.42	12 N.....
45c.....	7. 2.41	30. 5.41	7 p.m...	1. 6.41	6 a.m...	35	66	30. 7.41	9 a.m...
45c.....	28. 9.41	21. 1.42	3 p.m...	23. 1.42	9 p.m...	54	60	18. 3.42	3 p.m...
45c.....	30. 3.42	24. 7.42	3 a.m...	26. 7.42	9 a.m...	54	51	18. 9.42	12 N. ...
52.....	30. 5.41	25. 9.41	2 p.m...	*	*	—	—	20. 11.41	9 a.m...
52.....	18. 12.41	13. 4.42	7 p.m...	15. 4.42	9 a.m...	38	63	8. 2.42	3 p.m...
52.....	7. 7.42	30. 10.42	4 a.m...	31. 10.42	3 p.m...	35	63	25. 12.42	4 p.m...
54.....	28. 6.41	21. 10.41	11 p.m...	23. 10.41	12 m.n...	49	36	**	**
57.....	4. 7.41	24. 10.41	3 p.m...	26. 10.41	3 p.m...	48	75	**	**
57.....	21. 4.42	14. 8.42	4 p.m...	†	†	—	—	9. 10.42	9 a.m...
89.....	16. 1.42	8. 5.42	8 p.m...	10. 5.42	9 a.m...	37	60	††	††
92.....	5. 3.42	29. 6.42	3 a.m...	30. 6.42	9 a.m...	30	81	††	††
105.....	28. 6.42	21. 10.42	12 m.n...	22. 10.42	12 N.....	35	54	24. 8.42	9 a.m...
108.....	29. 3.42	21. 7.42	8 p.m...	23. 7.42	12 N.....	40	69	10. 11.42	9 a.m...
110.....	4. 5.42	28. 8.42	8 p.m...	30. 8.42	3 a.m...	43	81	15. 9.42	9 a.m...
111.....	29. 4.42	21. 8.42	3 a.m...	22. 8.42	6 a.m...	27	72	23. 10.42	9 a.m...
112.....	4. 5.42	29. 8.42	4 a.m...	30. 8.42	6 a.m...	26	63	16. 10.42	9 a.m...
116.....	19. 5.42	14. 9.42	3 p.m...	16. 9.42	3 a.m...	36	75	24. 10.42	9 a.m...
118.....	27. 5.42	18. 9.42	6 a.m...	20. 9.42	6 a.m...	48	36	9. 11.42	12 N. ...
121.....	3. 8.42	27. 11.42	2 p.m...	29. 11.42	6 a.m...	40	—	13. 11.42	9 a.m...
123.....	2. 6.42	25. 9.42	5 p.m...	26. 9.42	12 m.n...	31	60	22. 1.43	11 a.m...
124.....	1. 7.42	24. 10.42	9 a.m...	26. 10.42	3 a.m...	42	54	20. 11.42	9 a.m...
128.....	3. 6.42	27. 9.42	11 a.m...	29. 9.42	9 a.m...	46	57	19. 12.42	9 a.m...
129.....	17. 7.42	10. 11.42	8 p.m...	12. 11.42	12 N.....	40	45	22. 11.42	9 a.m...
131.....	12. 7.42	3. 11.42	6 p.m...	5. 11.42	9 a.m...	39	51	5. 1.43	4 p.m...
132.....	2. 7.42	24. 10.42	6 p.m...	26. 10.42	12 N.....	42	45	29. 12.42	10 a.m...
134.....	9. 9.42	3. 1.43	1 a.m...	5. 1.43	3 a.m...	50	75	9. 11.42	10 a.m...
136.....	10. 9.42	3. 1.43	3 a.m...	5. 1.43	3 a.m...	48	75	28. 2.43	11 a.m...
171.....	9. 8.40	28. 11.40	12 m.n...	30. 11.40	9 a.m...	33	99	—	—
								30. 11.40	8 a.m...

TABLE VII.  
*Postweaning Histories of Experimental Animals.*  
*Large Blacks.*

POSTWEANING OESTRUS.		Weaning to Oestrus (Days).	Duration of Postweaning Oestrus (Hours).	Suckling Period Days.	LITTER SIZE AT		WT. (lb.) OF SOW AT		Gestation Period (Days).
Date.	Hour.				Birth.	Weaning.	Parturition.	Weaning.	
4.11.40	12 N....	3.25	66	20	13	6	524	472	114
2. 6.40	9 a.m...	4.00	—	56	11	9	442	344	113
6.11.40	3 a.m...	5.87	63	17	15	8	434	382	115
27. 5.40	9 a.m...	3.96	—	61	7	6	417	372	113
5.11.40	3 a.m...	3.87	72	23	15	3	451	417	113
28. 5.40	9 a.m...	4.96	—	74	9	7	420	319	—
5.11.40	3 a.m...	3.87	72	24	8	7	447	376	114
3.11.40	6 a.m...	2.00	66	21	4	4	435	404	114
20. 5.41	9 p.m...	4.50	—	60	7	5	465	368	113
28.11.40	3 a.m...	35.12	—	61	7	7	272	238	114
14.10.40	6 p.m...	85.02	69	Few....	10	10	—	—	—
4. 9.41	12 N....	111.02	48	59	9	9	406	332	113
18. 3.42	6 a.m...	3.75	63	56	9	4	510	450	114
2.10.42	9 p.m...	4.50	66	59	6	6	484	435	113
*	—	—	—	—	4	3	602	634	113
25. 7.40	9 a.m...	12.87	51	58	5	5	240	237	—
29.10.40	12 N....	5.00	63	56	10	6	314	200	113
6.11.40	6 p.m...	9.04	66	56	10	8	300	238	113
5. 9.40	9 p.m...	9.50	66	24	—	—	—	—	—
10.11.41	3 a.m...	2.75	81	56	8	5	423	383	114
14. 6.42	6 p.m...	18.37	75	56	4	3	436	387	116
†	—	—	—	—	5	—	—	—	112
†	—	—	—	—	5	—	—	—	112
26. 9.40	3 a.m...	41.46	51	22	—	—	—	—	—
18. 6.41	9 a.m...	19.00	66	40	2	1	465	461	115
—	—	—	—	—	—	—	—	—	113
31. 8.41	6 a.m...	19.75	60	56	11	8	322	244	116
†	—	—	—	—	4	2	420	425	118
4. 8.41	12 N....	4.12	72	57	11	7	433	377	114
5. 2.42	6 a.m...	12.87	72	59	11	7	421	307	112
22. 8.42	3 a.m...	2.52	78	54	6	3	372	378	118
10. 8.41	12 m.n...	11.08	42	61	8	5	340	345	112
30. 3.42	12 N....	11.87	69	56	5	6	452	392	115
22. 9.42	12 m.n...	4.50	75	56	4	4	426	447	116
25.11.41	6 p.m...	5.37	51	56	4	3	350	326	118
15. 6.42	9 p.m...	7.25	72	56	7	7	389	286	116
29.12.42	3 p.m...	3.95	63	56	10	3	380	365	115
††	††	††	—	—	10	—	391	—	115
††	††	††	—	—	—	—	—	—	112
14.10.42	6 p.m...	5.37	69	56	7	5	408	376	115
††	††	††	—	—	5	—	—	—	112
27.10.42	6 a.m...	63.87	33	56	5	2	256	283	116
25.11.42	9 a.m...	15.00	66	20	8	2	—	382	115
15.10.42	6 p.m...	30.37	72	56	10	7	346	322	114
10.11.42	6 p.m...	18.37	72	56	8	7	300	—	116
12.11.42	9 a.m...	27.00	63	56	9	5	389	333	114
7.11.42	9 p.m...	14.50	63	56	8	8	441	—	117
27.11.42	6 a.m...	17.75	84	56	9	4	280	223	117
13.12.42	3 a.m...	29.75	54	56	11	8	260	213	114
27. 1.43	6 p.m...	5.29	72	56	12	3	355	323	116
27.11.42	6 a.m...	6.87	51	56	11	7	308	310	115
31.12.42	12 N....	12.12	54	56	9	6	287	265	115
11. 1.43	3 p.m...	50.25	45	56	4	4	288	251	116
9. 1.43	12 m.n...	4.33	75	56	5	3	315	327	116
12. 1.43	9 p.m...	14.45	78	56	7	4	282	260	114
13.11.42	12 m.n...	4.58	54	16	8	7	—	—	114
4. 3.43	9 a.m...	4.41	63	56	10	2	394	373	116
—	—	—	—	—	7	—	—	—	115
13.12.40	6 a.m...	12.91	102	2	8	8	466	—	112

← 165-166a

165-166b

TABLE VII (continued).

Large Whites.

Sow No.	Service Date.	PARTURITION.		POSTPARTUM OESTRUS.		Parturition to Oestrus (Hours).	Duration of Postpartum Oestrus (Hours).	WEANING.	
		Date.	Hour.	Date.	Hour.			Date.	Hour.
17a.....	15. 4.40	6. 8.40	9 p.m...	9. 8.40	6 a.m...	57	—	7.10.40	10 a.m...
17.....	3. 2.41	27. 5.41	10 a.m...	29. 5.41	6 a.m...	44	87	27. 7.41	10 a.m...
17.....	20. 8.41	12.12.41	10 a.m...	13.12.41	3 p.m...	29	87	6. 2.42	3 p.m...
21.....	13.12.39	3. 4.40	—	—	—	—	—	29. 5.40	9 a.m...
21.....	26. 7.40	17.11.40	11 a.m...	19.11.40	6 a.m...	43	60	19.11.40	6 p.m...
23.....	4.12.39	26. 3.40	—	—	—	—	—	23. 5.40	10 a.m...
23.....	19. 6.40	13.10.40	11 p.m...	15.10.40	9 p.m...	46	66	1.11.40	6 a.m...
32.....	1. 3.40	20. 6.40	—	24. 6.40	—	—	—	6. 9.40	12 N....
33.....	9. 4.40	30. 7.40	—	—	—	—	—	30. 9.40	4 p.m...
36.....	22. 5.40	12. 9.40	9 p.m...	14. 9.40	6 p.m...	45	—	12.11.40	9 a.m...
37.....	4. 5.40	25. 8.40	8 p.m...	27. 8.40	6 a.m...	34	—	28. 8.40	—
59.....	5. 2.41	28. 5.41	1 p.m...	30. 5.41	3 a.m...	38	93	28. 7.41	10 a.m...
59.....	28. 8.41	20.12.41	12 m.n...	22.12.41	3 p.m...	39	93	12. 2.42	9 a.m...
63.....	8. 5.41	31. 8.41	2 p.m...	3. 9.41	9 a.m...	67	36	26.10.41	11 a.m...
63.....	31.10.41	23. 2.42	9 p.m...	27. 2.42	3 p.m...	90	54	20. 4.42	3 p.m...
64.....	19. 3.41	13. 7.41	7 p.m...	X	X	X	—	6. 9.41	9 a.m...
64.....	—	5. 4.43	5 a.m...	8. 4.43	12 N....	79	63	1. 6.43	11 a.m...
64.....	6.12.41	30. 3.42	3 p.m...	2. 4.42	6 p.m...	75	36	25. 5.42	9 a.m...
66.....	29. 3.41	20. 7.41	9 p.m...	23. 7.41	6 a.m...	57	30	13. 9.41	9 a.m...
66.....	18. 9.41	8. 1.42	7 a.m...	10. 1.42	3 p.m...	56	63	5. 3.42	12 N....
66.....	12. 3.42	1. 7.42	6 p.m...	3. 7.42	12 m.n...	54	81	26. 8.42	9 a.m...
66.....	—	5. 4.43	11 a.m...	8. 4.43	12 N....	73	39	1. 6.43	11 a.m...
68.....	14. 3.41	3. 7.41	4 a.m...	5. 7.41	9 a.m...	53	45	28. 8.41	11 a.m...
68.....	2. 9.41	24.12.41	7 a.m...	27.12.41	6 a.m...	71	57	18. 2.42	9 a.m...
68.....	15. 3.42	6. 7.42	3 p.m...	9. 7.42	9 a.m...	66	51	31. 8.42	9 a.m...
74.....	5. 4.41	27. 7.41	2 p.m...	†	†	†	—	20. 9.41	9 a.m...
74.....	24. 9.41	16. 1.42	11 a.m...	†	†	†	—	13. 3.42	9 a.m...
74.....	6. 4.42	27. 7.42	8 a.m...	†	†	†	—	22. 9.42	9 a.m...
96.....	13. 3.42	5. 7.42	8 p.m...	7. 7.42	3 p.m...	43	72	7. 7.42	9 a.m...
101.....	10. 5.42	1. 9.42	3 p.m...	3. 9.42	3 p.m...	48	66	27.10.42	9 a.m...
102.....	11. 3.42	5. 7.42	5 a.m...	6. 7.42	9 a.m...	28	81	30. 8.42	9 a.m...
104.....	22. 3.42	11. 7.42	3 a.m...	12. 7.42	3 p.m...	36	90	5. 9.42	9 p.m...
106.....	10. 4.42	1. 8.42	12 m.n...	2. 8.42	9 a.m...	9	72	26. 9.42	9 a.m...
116.....	9. 4.42	21. 7.42	8 p.m...	2. 8.42	9 p.m...	49	57	25. 9.42	9 a.m...
119.....	23. 6.42	13.10.42	11 p.m...	†	†	†	—	8.12.42	9 a.m...
121.....	13. 4.42	5. 8.42	9 a.m...	7. 8.42	6 a.m...	33	57	30. 9.42	9 a.m...
123.....	3. 5.42	25. 8.42	11 p.m...	27. 8.42	6 p.m...	43	42	—	—
124.....	18. 5.42	10. 9.42	6 a.m...	11. 9.42	12 N....	30	81	5.11.42	9 a.m...
140.....	8. 9.42	2. 1.43	3 a.m...	3. 1.43	6 p.m...	39	60	27. 2.43	11 a.m...
145.....	18. 1.43	11. 5.43	2 a.m...	13. 5.43	9 a.m...	55	69	11. 8.43	9 a.m...
152.....	—	7. 5.43	10 p.m...	10. 4.43	12 N....	—	30	—	—
165b.....	13. 3.40	2. 7.40	—	—	—	—	—	20. 9.40	11 a.m...
438.....	1. 5.40	22. 8.40	11 a.m...	24. 8.40	9 a.m...	46	—	22.10.40	9 a.m...

\*Particulars not recorded.

†No postpartum oestrus.

‡Came in oestrus while suckling litter.

|| Died while suckling.

X III after parturition.

167-168a

167-168b



TABLE VII (continued).

Large Whites.

POSTWEANING OESTRUS.		Weaning to Oestrus (Days).	Duration of Post-weaning Oestrus (Hours).	Suckling Period Days.	LITTER SIZE AT		WT. (lb.) OF SOW AT		Gestation Period (Days)
Date.	Hour.				Birth.	Weaning.	Parturition.	Weaning.	
11.10.40	3 a.m...	3.71	54	62	12	9	449	319	113
29.7.41	6 p.m...	2.33	54	61	6	1	353	391	113
—	—	—	—	—	7	7	468	257	114
2.6.40	9 a.m...	4.00	—	56	9	4	494	470	112
13.12.40	6 a.m...	23.50	60	2	3	3	545	—	114
29.5.40	9 a.m...	5.95	—	58	13	7	469	358	113
4.11.40	9 a.m...	3.12	84	19	15	3	472	463	116
11.9.40	3 a.m...	4.62	57	78	15	9	402	331	111
4.10.40	12 m.n...	4.33	42	62	11	8	438	367	112
15.11.40	6 a.m...	2.87	—	61	8	1	440	373	113
15.9.40	12 m.n...	18.00	—	3	10	7	389	389	113
1.8.41	6 p.m...	4.33	69	61	11	7	402	328	112
16.2.42	12 N....	4.12	54	61	3	3	472	471	114
30.10.41	3 p.m...	4.16	33	56	8	6	544	453	115
3.6.42	6 a.m...	43.62	51	56	8	5	554	349	115
12.9.41	6 p.m...	6.37	51	55	11	10	332	216	116
5.6.43	3 a.m...	3.67	63	57	14	8	480	445	—
30.5.42	12 N....	5.12	45	56	14	12	427	274	114
17.9.41	6 a.m...	3.87	54	55	15	6	355	292	113
10.3.42	12 m.n...	5.50	51	56	9	9	405	272	112
29.8.42	12 N....	3.12	69	56	6	6	430	383	111
5.6.43	3 a.m...	3.67	51	57	11	6	550	507	—
10.9.41	9 a.m...	3.91	54	56	5	3	407	374	111
21.2.42	9 p.m...	3.50	81	56	8	7	461	327	113
4.9.42	3 a.m...	3.75	54	56	5	5	490	365	113
23.9.41	12 m.n...	3.62	45	55	11	6	344	326	113
17.3.42	6 p.m...	4.37	51	56	9	8	400	291	114
26.9.42	6 a.m...	3.87	57	57	8	7	437	380	114
8.8.42	6 p.m...	32.37	48	2	6	6	368	350	114
11.11.42	12 N....	15.12	51	56	13	8	334	235	114
2.9.42	9 p.m...	3.50	72	56	11	8	282	229	116
9.9.42	3 a.m...	3.75	54	56	10	7	288	267	111
1.10.42	3 p.m...	5.25	72	56	11	9	292	232	113
30.9.42	12 N....	5.12	45	56	9	4	280	223	113
12.12.42	6 p.m...	4.37	51	56	10	10	325	238	112
18.11.42	3 p.m...	49.35	118	56	7	4	257	225	114
23.9.42	3 a.m...	—	60	—	1	1	—	—	114
21.11.42	12 m.n...	16.62	57	56	14	9	303	220	115
6.3.43	9 a.m...	6.91	48	56	14	9	326	234	116
15.8.43	9 a.m...	4.00	45	92	8	5	453	369	113
—	—	—	—	—	—	—	—	—	—
24.9.40	12 N....	4.04	66	80	7	4	687	570	111
26.10.40	3 a.m...	3.75	72	61	15	6	578	495	113

† Came into oestrus twice while suckling.

\*\* Weaning delayed.

†† In oestrus during suckling.

‡‡ Litter died early, no further oestrus; retained foetus on postmortem.

← 167-168a

167-168b

TABLE VIII.

(Abstracted from Appendix 5, Table VII.)

*Litter Size at Parturition and the Interval from Parturition to Postpartum Oestrus.*

LARGE BLACKS.			LARGE WHITES.		
Sow No.	Total Litter Size.	Parturition to Postpartum Oestrus (hours).	Sow No.	Total Litter Size.	Parturition to Postpartum Oestrus (hours).
24	2	38	59	3	39
13	4	22	21	3	43
18	4	46	68	5	53
23	4	43	68	5	66
34	4	51	17	6	44
45(c)	4	54	66	6	54
128	4	46	96	6	43
23	5	37	17	7	29
23	5	29	121	7	33
45(c)	5	54	36	8	45
89	5	37	63	8	90
92	5	30	145	8	55
129	5	40	63	8	67
18	6	38	68	8	71
41	6	40	66	9	56
13	7	23	116	9	49
17	7	49	104	10	36
52	7	38	37	10	34
131	7	39	59	11	38
136	7	48	102	11	28
12	8	24	106	11	9
23	8	28	17(a)	12	57
45(c)	8	35	101	13	48
105	8	36	64	14	75
110	8	43	124	14	30
112	8	26	140	14	39
132	8	42	23	15	46
171	8	33	66	15	57
18	9	46	438	15	46
18	9	63	—	—	—
111	9	27	—	—	—
116	9	36	—	—	—
124	9	42	—	—	—
21	10	56	—	—	—
22	10	54	—	—	—
52	10	35	—	—	—
54	10	49	—	—	—
108	10	40	—	—	—
134	10	50	—	—	—
34	11	38	—	—	—
41	11	40	—	—	—
41	11	53	—	—	—
118	11	48	—	—	—
123	11	31	—	—	—
121	12	40	—	—	—
6(a)	13	38	—	—	—
9	15	50	—	—	—
11	15	44	—	—	—

TABLE IX.  
*Results of Services During Postpartum Oestrus.*

Sow No.	Parturition Date.	Service Date.	Interval from onset of Oestrus to Service (Hours).	Boar.	Result.
<b>Large Black.—</b>					
23.....	23. 4.43	24. 4.43	27	U. 20.....	Negative.
23.....	3. 9.43	5. 9.43	24	U. 20.....	Negative.
105.....	9. 9.43	12. 9.43	24	U. 5.....	Negative.
134.....	3. 1.43	6. 1.43	36	P. 138.....	Negative.
136.....	3. 1.43	6. 1.43	36	U. 5.....	Negative.
<b>Large White.—</b>					
66.....	5. 4.43	9. 4.43	29	P. 64.....	Negative.
68.....	6. 7.42	10. 7.42	24	P. 64.....	Negative.
96.....	5. 7.42	8. 7.42	24	P. 61.....	Negative.
102.....	5. 7.42	7. 7.42	24	P. 61.....	Negative.
121.....	5. 8.42	8. 8.42	36	P. 61.....	Negative.
145.....	11. 5.43	15. 5.43	48	P. 138.....	Negative.
186.....	7. 9.43	9. 9.43	24	P. 64.....	Negative.

TABLE X.

(Abstracted from Appendix 5, Table VII.)

*The Length of the Nursing Period and the Interval from Weaning to Postweaning Oestrus (Large Blacks Only).*

Nursing Period (Days).	Weaning to Postweaning Oestrus (Days).
2	12.91
16	4.58
17	5.87
20	3.25
21	2.00
22	41.46
23	3.87
24	3.87
40	19.00
54	2.68
56	4.00
57	4.12
58	12.87
59	111.02
60	4.50
61	3.96
74	4.96

TABLE XI.

*Frequency Distribution of the Period from Weaning to Postweaning Oestrus.*

Class Intervals (Days).	FREQUENCIES.			
	Large Blacks.		Large Whites	
	No.	Per Cent.	No.	Per Cent.
0.....	0	0	0	0
3.....	16	32	25	64·1
6.....	9	18	8	20·5
9.....	2	4	0	—
12.....	6	12	0	—
15.....	3	6	1	2·6
18.....	4	8	1	2·6
21.....	1	2	0	—
24.....	0	—	1	2·6
27.....	1	2	0	—
30.....	2	4	0	—
33.....	0	—	1	2·6
36.....	1	2	0	—
39.....	0	—	0	—
42.....	1	2	0	—
45.....	0	—	1	2·6
48.....	0	—	1	2·6
51.....	1	2	—	—
63.....	1	2	—	—
84.....	1	2	—	—
111.....	1	2	—	—
	<u>50</u>	<u>          </u>	<u>39</u>	<u>          </u>

TABLE XII.

(Abstracted from Appendix 5, Table VII.)

*Sizes of Litter During the Nursing Period and the Interval from Weaning to Postweaning Oestrus.*

LARGE BLACKS.			LARGE WHITES.		
Sow No.	Litter Size.	Weaning to Postweaning Oestrus (Days).	Sow No.	Litter Size.	Weaning to Postweaning Oestrus (Days).
24	1	19.00	17	1	2.33
92	2	63.87	36	1	2.87
105	2	15.00	21	3	23.50
134	2	4.41	23	3	3.12
11	3	3.87	59	3	4.12
23	3	18.37	68	3	3.91
41	3	2.62	21	4	4.00
52	3	5.37	116	4	5.12
52	3	3.97	121	4	49.35
121	3	5.29	165	4	4.04
129	3	4.33	63	5	43.62
13	4	2.00	68	5	3.75
18	4	3.75	63	6	4.16
450	4	4.50	66	6	3.87
116	4	17.75	66	6	3.12
128	4	50.25	74	6	3.62
131	4	14.45	96	6	32.37
13	5	4.50	438	6	3.75
19	5	12.87	23	7	5.95
23	5	2.75	59	7	4.33
45(c)	5	11.08	68	7	3.50
57	5	5.37	74	7	3.87
111	5	27.00	104	7	3.75
6(a)	6	3.25	33	8	4.33
11	6	3.96	74	8	4.37
18	6	4.50	101	8	15.12
21	6	5.00	102	8	3.50
45(c)	6	11.87	17(a)	9	3.71
124	6	12.12	32	9	4.62
12	7	4.96	66	9	5.50
12	7	3.80	106	9	5.25
17	7	35.12	124	9	16.62
41	7	4.12	140	9	6.91
41	7	12.87	64	10	6.37
52	7	7.25	119	10	4.37
108	7	30.37	64	12	5.12
110	7	18.37	—	—	—
123	7	6.87	—	—	—
132	7	4.58	—	—	—
9	8	5.87	—	—	—
22	8	9.04	—	—	—
34	8	19.75	—	—	—
112	8	14.50	—	—	—
118	8	29.75	—	—	—
171	8	12.91	—	—	—
9	9	4.00	—	—	—
18	9	111.02	—	—	—
18	10	85.02	—	—	—



TABLE XIII.

(Abstracted from Appendix 5, Table VII.)

*Loss of Weight of the Sow During Nursing and the Interval from Weaning to Postweaning Oestrus.**Large Blacks.*

Sow No.	BODY WEIGHT IN POUNDS AT		GAIN (+) OR LOSS(—)		Weaning to Postweaning Oestrus (Days).
	Parturition.	Weaning.	Actual (lb.)	Per Cent.	
92	256	283	27	+10·547	63·87
45(c)	426	447	21	+ 4·930	4·50
129	315	327	12	+ 3·810	4·33
41	372	378	6	+ 1·613	2·62
45(c)	340	345	5	+ 1·471	11·08
123	308	310	2	+ 0·649	6·87
19	240	237	3	— 1·250	12·87
52	380	365	15	— 3·947	3·95
104	394	373	21	— 5·330	4·41
52	350	326	24	— 6·857	5·37
108	346	322	24	— 6·936	30·37
124	287	265	22	— 7·666	12·12
131	282	260	22	— 7·801	14·45
57	408	376	32	— 7·843	5·37
121	355	323	32	— 9·014	5·29
23	423	383	40	— 9·456	2·75
18	484	435	49	—10·124	4·50
23	436	387	49	—11·239	18·37
18	510	450	60	—11·765	3·75
17	272	238	34	—12·500	35·12
128	288	251	37	—12·847	50·25
41	433	377	56	—12·933	4·12
45(c)	452	392	60	—13·274	11·87
111	389	338	56	—14·396	27·00
118	260	213	47	—18·077	29·75
18	406	332	74	—18·227	111·02
116	280	223	57	—20·357	17·75
22	300	238	62	—20·667	9·04
13	465	368	97	—20·860	4·50
9	442	344	98	—22·172	4·00
34	322	244	78	—24·224	19·75
52	389	286	103	—26·478	7·25
41	421	307	114	—27·078	12·87
21	314	200	114	—36·306	5·00

## SEX PHYSIOLOGY OF PIGS.

TABLE XIII (continued).

*Large Whites.*

Sow No.	BODY WEIGHT IN POUNDS AT		GAIN (+) OR LOSS(-)		Weaning to Postweaning Oestrus (Days).
	Parturition.	Weaning.	Actual (lb.)	Per Cent.	
17	353	391	38	+10.765	2.33
59	472	471	1	- 0.212	4.12
21	494	470	24	- 4.850	4.00
74	344	326	18	- 5.233	3.62
64	480	445	35	- 7.292	3.67
104	288	267	21	- 7.292	3.75
66	550	507	43	- 7.818	3.67
68	407	374	33	- 8.108	3.91
66	430	383	47	-10.930	3.12
121	257	225	32	-12.451	49.35
74	437	380	57	-13.043	3.87
438	578	495	83	-14.360	3.75
36	440	373	67	-15.227	2.87
33	438	367	71	-16.210	4.33
63	544	453	91	-16.728	4.16
66	355	292	63	-17.746	3.87
59	402	328	74	-18.408	4.33
102	282	229	53	-18.794	3.50
116	280	223	57	-20.357	5.12
106	292	232	60	-20.548	5.25
23	469	358	111	-23.667	5.95
68	490	365	125	-25.510	3.75
119	325	238	87	-26.769	4.37
74	400	291	109	-27.250	4.37
124	303	220	83	-27.393	16.62
140	326	234	92	-28.221	6.91
17(a)	449	319	130	-28.953	3.71
68	461	327	134	-29.067	3.50
101	334	235	99	-29.641	15.12
66	405	272	133	-32.840	5.50
64	332	216	116	-34.940	6.37
64	427	274	153	-35.831	5.12
63	554	349	205	-37.004	43.62
17	468	257	211	-45.085	—

TABLE XIV.  
*The Appearance of Oestrus During Undisturbed Suckling.*  
 (Litter size shown in brackets.)

Sow No.	Partu- rition Date.	OESTRUS DATES WHILE NURSING.						Weaning Date.	Post- weaning Oestrous Date.	Suckling Period (Days).	Weaning to Post- weaning Oestrus (Days).	Period last Nursing Oestrus to Postweaning Oestrus (Days).
		1st.			2nd.							
		1st (Post- partum).	2nd (Post- partum).	3rd. (Post- partum).	1st.	2nd.	3rd.					
Large Black.—												
13.....	17. 3. 41	18. 3. 41 (6)	10. 4. 41 (5)	—	1	23	—	16. 5. 41 (5)	20. 6. 41	60	4	40
23.....	6. 10. 42	7. 10. 42 (5)	27. 10. 42 (3)	20. 11. 42 (3)	1	20	24	1. 12. 42 (3)	10. 12. 42	56	9	20
34.....	22. 6. 42	24. 6. 42 (4)	21. 7. 42 (2)	13. 8. 42 (2)	2	27	23	17. 8. 42 (2)	5. 9. 42	56	19	23
54.....	21. 10. 41	23. 10. 41 (8)	28. 2. 42 (3)	—	2	128	—	6. 3. 42 (3)	26. 3. 42	136	20	26
57.....	24. 10. 41	26. 10. 41 (6)	21. 1. 42 (2)	12. 2. 42 (2)	2	87	22	23. 2. 42 (2)	5. 3. 42	122	10	21
Large White.—												
17.....	27. 5. 41	29. 5. 41 (3)	16. 6. 41 (1)	8. 7. 41 (1)	2	18	22	27. 7. 41 (1)	29. 7. 41	61	2	21

TABLE XV.  
*Induction of Oestrus by Separation of Sow and Litter Overnight.*

Sow No.	PARTURITION HISTORY.				SEPARATION HISTORY.						WEANING TO POSTWEANING HISTORIES.				
	Event.	Postpartum Oestrus.		Litter Size.	Days Post-partum.	Date.	Oestrus Dates.	Periodicity of Oestrus after		Nursing Period (Days).	Weaning to Oestrus (Days).	Litter Size.			
		Date.	Days Post-partum.					Postpartum Oestrus (Days).	or Parturition (Days).						
									1st.				2nd.	1st.	2nd.
Large Black.—	15. 5.43	17. 5.43	2	20. 5.43	5	23. 7.43	67	—	—	21. 8.43	98	5. 9.43	15	3	
18. ....	23. 4.43	24. 4.43	1	10. 5.43	17	15. 8.43	—	—	—	—	—	—	—	—	
23* .....	19. 3.43	22. 3.43	3	12. 4.43	24	14. 5.43	20	—	—	14. 5.43	56	17. 5.43	3	7	
105. ....	5. 4.43	8. 4.43	3	12. 4.43	7	—	—	—	—	1. 6.43	57	5. 6.43	4	8	
Large White.—	17. 10.43	21. 10.43	4	26. 10.43	9	—	—	—	—	17. 1.44	92	26. 1.44	9	7	
64. ....	5. 4.43	8. 4.43	3	12. 4.43	7	—	—	—	—	1. 6.43	57	5. 6.43	4	6	
66. ....	11. 5.43	13. 5.43	2	17. 5.43	6	—	—	—	—	11. 8.43	99	15. 8.43	4	5	
145. ....	7. 9.43	8. 9.43	1	18. 9.43	11	2. 12.43	85	—	—	7. 12.43	91	25. 12.43	18	1	
186. ....	26. 4.43	—	—	10. 5.43	14	31. 5.43	—	35	—	—	—	—	—	—	
Tamworth.—	22. 9.43	—	—	22. 10.43	30	28. 10.43	—	36	—	22. 12.43	91	29. 12.43	7	5	
86† .....	30. 8.43	—	—	30. 9.43	31	21. 11.43	—	—	24	30. 11.43	92	7. 12.43	7	4	
87. ....															

\* Large black 23 conceived 15.5.43.

† Tamworth 86 conceived 1.6.43.

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TABLE XVI.

*The Influence of the Absence of Coitus and of Sterile and Fertile Coitus at Zero Hour on the Duration of Oestrus (in Hours).*

Sow No.	LARGE BLACKS.			Sow No.	LARGE WHITES.		
	Absence of Coitus.	Sterile Coitus	Fertile Coitus.		Absence of Coitus.	Sterile Coitus.	Fertile Coitus.
44U	60	63	—	140	51	48	39
42	57	60	—	143	45	42	48
154	54	51	—	68	45	—	42
143	42	75	78	123	45	51	—
138	69	66	—	96	48	51	45
57	75	66	—	74	48	39	—
134	54	66	54	69	57	45	—
18	63	84	—	128	69	51	—
116	57	—	66	72	54	—	60
41	72	—	66	134	33	—	42
126	54	—	48	132	33	—	33
121	57	—	66	147	33	—	36
105	54	51	66	124	57	—	63
87	57	—	45	149	45	—	39
92	42	—	90	116	54	—	48
147	27	—	54	148	51	—	39
123	60	—	48	154	42	—	45
124	54	—	42	102	51	—	63
151	60	—	66	100	60	—	60
180	69	63	—	109	45	—	54
215	81	57	—	184	30	42	—
—	—	—	—	188	45	36	—
—	—	—	—	190	27	30	—

## APPENDIX 6.

## OBSERVATION 5.

*The Optimum Service Period: Macroscopic Examination of the Ovaries and Embryos at About Twenty-six Days of Pregnancy.*

This appendix is devoted to a description of the morphological appearances of the ovaries and embryos of the sow at about 26 days of pregnancy. Ten sows from each of the Large Black and Large White breeds were mated at twelve-hour intervals, starting at the zero hour of oestrus. Five such interval groups were obtained for the Large Black breed, but the sixth group in this breed includes only eight individuals, as it was not possible to obtain the full quota of ten pregnancies for the 60th hour of oestrus. In the Large White breed only four interval groups could be established.

Certain particulars, some of which are not included in the discussions below, are presented in tables of this appendix. For purposes of brevity and economy of space, the following abbreviations have been used: C. L. Gr. for Corpora Lutea Gravitatis; l.o. for left ovary and r.o. for right ovary.

*Large Blacks.*

(Groups 1 to 6).

*Group 1. Sows Served at Zero Hour of Oestrus.*

(1) Sow No. 52.—Oestrus on 29.12.42, 3 p.m.; duration of oestrus 63 hours; slaughtered 25.1.43; pregnancy 27 days.

C.L.Gr.: l.o. 9, r.o. 5; diameters 9—11 mm. Their general shape is spherical but some are conically inclined. Blood vessels show very distinctly over all their surfaces. The