

**APPENDIX H**  
**POWER STATISTICS**

P1 Body Weight		Female						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>P1A</b>								
Day-31	NA	3%	7%	31.8	34%	93%	100%	278
Day-38	NA	10%	28%	45.5	28%	86%	100%	22
Day-44	NA	4%	10%	38.4	40%	97%	100%	87
Day-79	NA	6%	13%	49.4	31%	90%	100%	55
Day-115	NA	9%	16%	66.3	20%	69%	100%	49
slope45	NA	10%	12%	1.28	13%	43%	100%	58
slope115	NA	47%	22%	0.63	6%	8%	25%	28
<b>P1B</b>								
Day-25	NA	5%	10%	32.7	25%	81%	100%	57
Day-32	NA	3%	7%	35.8	30%	89%	100%	164
Day-39	NA	1%	5%	43.4	28%	87%	100%	1900
Day-45	Ln	0%	5%	0.22	100%	100%	100%	880
Day-78	NA	2%	5%	61.4	20%	69%	100%	1180
Day-116	NA	3%	6%	72.5	17%	59%	100%	305
slope45	Ln	7%	12%	0.35	20%	68%	100%	305
slope115	Ln	9%	6%	0.27	6%	11%	55%	299

<b>P1 Body Weight</b>		<b>Males</b>						
<b>Variable</b>	<b>Data Transformation</b>	<b>Observed Maximum Percent Difference</b>	<b>Observed Power</b>	<b>Detected Difference at Power = 80%</b>	<b>Power at Delta = 10%</b>	<b>Power at Delta = 20%</b>	<b>Power at Delta = 50%</b>	<b>Sample Size Required to Achieve 80% Power for observed Delta</b>
<b>P1A</b>								
Day-31	NA	4%	11%	25.0	6%	11%	55%	299
Day-38	Ln	1%	23%	0.15	100%	100%	100%	32
Day-44	Ln	1%	39%	0.11	100%	100%	100%	299
Day-79	NA	4%	9%	31.0	47%	99%	100%	104
Day-115	Ln	2%	25%	0.21	100%	100%	100%	29
slope45	NA	21%	29%	0.83	10%	27%	97%	29
slope115	Ln	125%	19%	0.51	5%	5%	7%	37
<b>P1B</b>								
Day-25	NA	9%	20%	30.1	24%	80%	100%	26
Day-32	NA	7%	23%	25.5	46%	98%	100%	36
Day-39	NA	8%	26%	28.7	41%	97%	100%	36
Day-45	NA	13%	39%	39.6	23%	78%	100%	21
Day-78	NA	8%	20%	36.3	34%	93%	100%	21
Day-116	NA	7%	10%	54.2	18%	63%	100%	82
slope45	Ln	14%	14%	0.39	9%	26%	96%	64
slope115	Ln	43%	9%	0.58	5%	6%	11%	104

F1A-P1A Body Weights		Females							Sample Size Required to Achieve 80% Power for observed Delta
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%		
Day-23	NA	11%	17%	44.6	14%	47%	100%	13	
Day-27	NA	16%	47%	41.1	20%	67%	100%	5	
Day-34	NA	16%	58%	42.8	25%	80%	100%	5	
Day-41	NA	16%	42%	61.5	18%	61%	100%	6	
Day-51	NA	15%	55%	48.3	28%	84%	100%	5	
Day-93	NA	25%	72%	78.4	15%	50%	100%	4	
Slope23-34	NA	27%	25%	2.72	7%	15%	74%	9	
Slope34-51	NA	17%	6%	2.61	5%	7%	20%	83	
Slope51-94	NA	111%	19%	1.73	5%	5%	7%	12	

F1A-P1B Body Weights		Female						
Day-23	NA	10%	18%	36.5	19%	68%	100%	23
Day-27	NA	10%	17%	46.7	15%	53%	100%	23
Day-34	NA	8%	15%	47.5	20%	69%	100%	23
Day-41	NA	9%	17%	54.4	19%	67%	100%	20
Day-51	NA	12%	45%	42.4	32%	91%	100%	8
Day-93	NA	7%	8%	92.9	11%	33%	99%	88
Slope23-34	NA	12%	8%	2.64	7%	14%	67%	67
Slope34-51	NA	53%	20%	2.32	5%	7%	19%	16
Slope51-94	NA	50%	8%	1.27	5%	5%	8%	66

**F1A-P1A Body Weights**      **Males**

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
Day-23	NA	21%	29%	58.3	10%	27%	94%	5
Day-27	NA	17%	30%	52.8	13%	39%	99%	4
Day-34	NA	15%	17%	73.1	10%	30%	96%	7
Day-41	NA	16%	19%	77.9	10%	29%	96%	6
Day-51	NA	13%	13%	91.9	9%	25%	92%	9
Day-94	NA	19%	33%	81.9	12%	35%	98%	4
Slope23-34	NA	97%	47%	6.16	5%	6%	15%	3
Slope34-51	NA	49%	10%	2.89	5%	6%	11%	13
Slope51-94	NA	110%	11%	1.28	5%	5%	6%	12

**F1A-P1B Body Weights**      **Male**

Day-23	NA	11%	11%	57.8	10%	29%	95%	12
Day-27	NA	12%	12%	63.7	10%	28%	95%	10
Day-34	NA	12%	13%	68.9	11%	30%	96%	9
Day-41	NA	7%	7%	84.5	9%	24%	90%	35
Day-51	NA	5%	6%	97.1	9%	21%	86%	74
Day-94	NA	4%	6%	101.9	9%	21%	86%	112
Slope23-34	NA	50%	16%	4.09	5%	7%	16%	7
Slope34-51	NA	67%	14%	3.23	5%	6%	10%	9
Slope51-94	NA	45%	5%	1.23	5%	5%	6%	126

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1B-P1A Body Weights</b>		<b>Female</b>						
Day-23	NA	13%	17%	52.6	12%	37%	99%	7
Day-27	NA	15%	23%	58.8	12%	38%	99%	5
Day-34	NA	14%	7%	162	6%	10%	44%	26
Day-41	NA	17%	24%	91.2	11%	32%	97%	5
Day-51	NA	12%	18%	81.7	13%	40%	99%	7
Day-93	NA	14%	24%	82.5	15%	48%	100%	5
Slope23-34	NA	39%	6%	15.8	5%	5%	7%	52
Slope34-51	NA	71%	7%	9.66	5%	5%	6%	29
Slope51-94	NA	41%	8%	1.33	5%	6%	10%	21
<b>F1B-P1B Body Weights</b>		<b>Females</b>						
Day-23	NA	4%	6%	47.3	13%	45%	100%	85
Day-27	NA	8%	11%	51.8	13%	44%	100%	24
Day-34	NA	9%	9%	82.2	10%	27%	96%	33
Day-41	NA	11%	10%	95.6	9%	25%	95%	28
Day-51	NA	11%	13%	80.3	12%	37%	99%	18
Day-93	NA	11%	12%	93.2	11%	34%	99%	20
Slope23-34	NA	24%	8%	5.56	5%	7%	19%	48
Slope34-51	NA	22%	6%	3.68	5%	6%	9%	148
Slope51-94	NA	24%	7%	0.92	5%	6%	13%	69

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1B-P1A Body Weights</b>		<b>Male</b>						
Day-23	NA	8%	7%	80.8	7%	16%	71%	38
Day-27	NA	9%	8%	74.1	9%	21%	87%	20
Day-34	NA	11%	9%	98.3	8%	18%	79%	18
Day-41	NA	15%	12%	106	8%	18%	77%	11
Day-51	NA	19%	16%	114	8%	17%	77%	8
Day-94	NA	16%	13%	121	8%	18%	77%	9
Slope23-34	NA	36%	14%	4.59	6%	8%	24%	9
Slope34-51	NA	74%	30%	2.17	5%	7%	16%	4
Slope51-94	NA	17%	5%	0.94	5%	5%	7%	227
<b>F1B-P1B Body Weights</b>		<b>Males</b>						
Day-23	NA	4%	7%	36.5	18%	62%	100%	106
Day-27	NA	7%	11%	41.4	17%	58%	100%	36
Day-34	NA	7%	12%	39.3	22%	74%	100%	30
Day-41	NA	5%	9%	41.9	22%	74%	100%	50
Day-51	NA	5%	8%	54.3	16%	55%	100%	74
Day-94	NA	6%	8%	61.9	14%	47%	100%	63
Slope23-34	NA	21%	8%	2.88	6%	8%	25%	69
Slope34-51	NA	70%	31%	1.94	5%	7%	17%	11
Slope51-94	NA	156%	18%	0.73	5%	5%	6%	19

P1 Food Consumption		Female							
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta	
<b>P1A</b>									
Slope-Pre	NA	40%	14%	0.18	5%	7%	21%	54	
Pre-PAvg	NA	7%	15%	6.57	27%	85%	100%	51	
Slope-post	NA	56%	33%	0.61	6%	8%	27%	19	
Av-Post	NA	3%	6%	7.81	21%	72%	100%	249	
<b>P1B</b>									
Slope-post	NA	35.8%	33%	0.3007	7%	12%	61%	24	
Av-Post	NA	11.8%	46%	6.2974	34%	93%	100%	18	

F1 Food Consumption		Female							
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta	
<b>F1A-P1A</b>									
Slope	NA	47%	6%	0.39	5%	5%	6%	147	
Average	Ln	3%	12%	0.32	88%	100%	100%	21	
<b>F1A-P1B</b>									
Slope	NA	63%	8%	0.24	5%	5%	7%	61	
Average	Ln	3%	21%	0.19	100%	100%	100%	15	
<b>F1B-P1A</b>									
Slope	NA	123%	8%	0.55	5%	5%	6%	20	
Average	Ln	3%	8%	0.54	43%	95%	100%	20	
<b>F1B-P1B</b>									
Slope	NA	91%	8%	0.34	5%	5%	6%	40	
Average	Ln	4%	17%	0.32	89%	100%	100%	13	



**P1 Food Consumption Male**

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>P1A</b>								
Slope-Pre	NA	-80%	14%	0.16	*	0%	100%	32
Pre-PAvg	NA	6%	15%	3.81	42%	97%	100%	52
<b>P1B</b>								
Slope-post	NA	-246%	13%	0.61	*	0%	100%	52
Av-Post	NA	10%	29%	4.66	28%	87%	100%	21
Slope-post	NA	*	*	*	*	*	*	*
Av-Post	NA	5%	8%	5.43	24%	80%	100%	179

**F1 Food Consumption Male**

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b>								
Slope	NA	-207%	36%	0.26	*	*	*	*
Average	Ln	4%	11%	0.48	49%	98%	100%	13
<b>F1A-P1B</b>								
Slope	NA	-1541%	6%	0.38	*	*	*	*
Average	Ln	1%	6%	0.41	64%	100%	100%	75
<b>F1B-P1A</b>								
Slope	NA	-203%	18%	0.38	*	*	*	*
Average	Ln	3%	8%	0.54	39%	94%	100%	25
<b>F1B-P1B</b>								
Slope	NA	-2136%	9%	0.21	*	*	*	*
Average	Ln	3%	14%	0.31	87%	100%	100%	24

P1 Egg Counts		P1A						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
Cumulative Slope	Ln	8%	7%	0.26	8%	21%	91%	162
Total-Eggs	Sqrt	7.5%	7%	2.96	9%	23%	94%	214
TE-Meggs	NA	12%	8%	0.41	7%	14%	70%	161
PC-Int	NA	314%	31%	0.59	5%	5%	5%	20
PC-Slope	NA	662%	52%	0.0064	5%	5%	5%	12
PC-Total	NA	42%	8%	0.30	5%	6%	9%	143
PV8-Int	NA	121%	11%	4.21	5%	5%	6%	48
PV8-Slope	NA	-1068%	8%	0.043	*	*	*	*
PV8-Tset	NA	14%	7%	0.59	6%	9%	38%	198
PV15-TSet	NA	29%	11%	0.81	6%	7%	24%	62
PH-V8	Asin	22%	11%	0.93	6%	10%	41%	59
PH-Tset	NA	30%	9%	0.79	5%	7%	17%	84
PH-Mset	NA	33%	10%	0.62	5%	7%	17%	70

P1 Egg Counts		P1B						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
Cumulative Slope	NA	11%	11%	0.32	10%	27%	97%	89
Total-Eggs	Sqrt	6%	13%	1.40	28%	86%	100%	68
TE-Meggs	Asin	10%	14%	0.33	14%	49%	100%	63
PC-Int	NA	239%	35%	0.39	5%	5%	6%	23
PC-Slope	NA	-817%	23%	0.01	*	*	*	*
PC-Total	Asin	22%	10%	0.21	6%	9%	40%	103
PV8-Int	NA	115%	55%	3.25	5%	6%	13%	11
PV8-Slope	NA	-174%	59%	0.03	*	*	*	*
PV8-Tset	Asin	30%	30%	0.51	7%	15%	74%	27
PV15-TSet	NA	100%	44%	0.64	5%	6%	13%	14
PH-V8	NA	74%	21%	0.23	5%	6%	12%	34
PH-Tset	NA	96%	38%	0.64	5%	6%	13%	16
PH-Mset	NA	68%	21%	0.53	5%	6%	13%	30

F1 Egg Counts		F1A-P1A						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
Cumulative Slope	NA	8%	13%	0.19	18%	64%	100%	67
Total-Eggs	NA	7%	9%	11.0	15%	51%	100%	120
TE-Meggs	NA	7%	9%	0.21	15%	51%	100%	120
PC-Int	NA	62%	7%	1.47	5%	5%	6%	64
PC-Slope	NA	-70%	6%	0.02	*	*	*	*
PC-Total	Asin	36%	24%	0.27	6%	10%	45%	33
PV8-Int	NA	157%	11%	3.10	5%	5%	6%	12
PV8-Slope	NA	190%	10%	0.04	5%	5%	5%	14
PV8-Tset	NA	15%	9%	0.56	7%	13%	61%	15
PV15-Int	NA	372%	16%	3.71	5%	5%	5%	7
PV15-Slope	NA	226%	16%	0.05	5%	5%	5%	8
PV15-TSet	NA	19%	9%	0.75	6%	9%	34%	18
PH-Int	NA	-1756%	9%	2.86	*	*	*	*
PH-Slope	NA	59%	8%	0.04	5%	5%	7%	23
PH-V8	NA	19%	12%	0.52	7%	14%	62%	10
PH-Tset	NA	25%	10%	0.76	6%	8%	28%	13
PH-Mset	NA	40%	8%	1.09	5%	6%	10%	21

F1 Egg Counts		F1A-P1B						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
Cumulative Slope	NA	9%	8%	0.35	9%	22%	92%	62
Total-Eggs	NA	9%	8%	19.2	8%	18%	85%	75
TE-Meggs	NA	9%	8%	0.36	8%	18%	85%	75
PC-Int	NA	114%	18%	1.18	5%	5%	7%	18
PC-Slope	NA	-114%	13%	0.01	*	*	*	*
PC-Total	NA	86%	14%	0.31	5%	5%	8%	24
PV8-Int	NA	52%	5%	3.17	5%	5%	5%	192
PV8-Slope	NA	38%	5%	0.04	5%	5%	6%	190
PV8-Tset	NA	14%	10%	0.47	7%	16%	72%	14
PV15-Int	NA	-3790%	7%	3.06	*	*	*	*
PV15-Slope	NA	52%	7%	0.04	5%	5%	7%	33
PV15-TSet	NA	21%	15%	0.47	7%	14%	63%	8
PH-Int	NA	-227%	14%	2.51	*	*	*	*
PH-Slope	NA	76%	16%	0.03	5%	6%	10%	7
PH-V8	NA	9%	6%	0.58	6%	11%	49%	55
PH-Tset	NA	18%	8%	0.65	6%	9%	31%	23
PH-Mset	NA	41%	8%	0.92	5%	6%	10%	21

F1 Egg Counts		F1B-P1A						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
Cumulative Slope	Ln	9%	8%	0.27	9%	22%	88%	19
Total-Eggs	Sqrt	6%	7%	2.41	10%	29%	96%	36
TE-Meggs	Asin	8%	6%	0.60	7%	14%	66%	47
PC-Int	NA	83%	8%	1.70	5%	5%	6%	22
PC-Slope	NA	-96%	7%	0.02	*	*	*	*
PC-Total	Asin	51%	10%	0.80	5%	6%	10%	14
PV8-Int	NA	159%	10%	3.26	5%	5%	5%	13
PV8-Slope	NA	188%	8%	0.05	5%	5%	5%	21
PV8-Tset	NA	20%	8%	0.92	6%	8%	26%	23
PV15-Int	NA	97%	6%	4.16	5%	5%	5%	107
PV15-Slope	NA	81%	6%	0.06	5%	5%	5%	84
PV15-TSet	NA	27%	9%	1.07	5%	7%	19%	18
PH-Int	NA	-2024%	8%	4.06	*	*	*	*
PH-Slope	NA	92%	8%	0.06	5%	5%	6%	24
PH-V8	NA	31%	32%	0.48	7%	15%	69%	4
PH-Tset	NA	41%	12%	1.05	5%	7%	16%	10
PH-Mset	NA	38%	9%	0.91	5%	6%	12%	17

F1 Egg Counts		F1B-P1B						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
Cumulative Slope	Ln	9%	8%	0.25	9%	23%	92%	44
Total-Eggs	Sqrt	8%	8%	2.18	11%	33%	99%	38
TE-Meggs	Asin	19%	11%	0.67	7%	12%	55%	24
PC-Int	NA	60%	7%	1.47	5%	5%	6%	63
PC-Slope	NA	-87%	7%	0.02	*	*	*	*
PC-Total	Asin	61%	18%	0.51	5%	6%	13%	13
PV8-Int	NA	145%	13%	1.70	5%	5%	6%	18
PV8-Slope	NA	111%	13%	0.02	5%	5%	7%	18
PV8-Tset	Asin	5%	5%	1.21	6%	8%	26%	627
PV15-Int	NA	-7353%	39%	1.61	*	*	*	*
PV15-Slope	NA	120%	45%	0.02	5%	6%	11%	6
PV15-TSet	NA	12%	6%	0.81	6%	7%	24%	140
PH-Int	NA	-333%	52%	1.66	*	*	*	*
PH-Slope	NA	106%	67%	0.02	5%	7%	18%	4
PH-V8	NA	13%	9%	0.44	7%	15%	73%	34
PH-Tset	NA	13%	6%	0.85	5%	7%	18%	164
PH-Mset	NA	44%	9%	0.81	5%	6%	10%	32

## F2 Hatchlings

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b>								
14-Day Survivors-NH	NA	6%	18%	0.16	40%	94%	100%	7
Normal Hatch-MSet	NA	50%	9%	1.15	5%	6%	9%	18
14-Day Survivors-NSet	NA	28%	10%	0.81	6%	7%	22%	14
14-Day Survivors-MSet	NA	53%	9%	1.09	5%	6%	9%	15
<b>F1A-P1B</b>								
14-Day Survivors-NH	NA	8%	9%	0.34	11%	33%	98%	17
Normal Hatch-MSet	NA	33%	7%	0.90	5%	6%	10%	29
14-Day Survivors-NSet	NA	18%	8%	0.61	6%	9%	32%	23
14-Day Survivors-MSet	NA	38%	8%	0.87	5%	6%	10%	23
<b>F1B-P1A</b>								
14-Day Survivors-NH	NA	4%	7%	0.26	18%	57%	100%	33
Normal Hatch-MSet	NA	38%	8%	0.92	5%	6%	11%	20
14-Day Survivors-NSet	NA	37%	11%	0.96	5%	7%	17%	12
14-Day Survivors-MSet	NA	38%	8%	0.90	5%	6%	11%	20
<b>F1B-P1B</b>								
14-Day Survivors-NH	NA	7%	13%	0.19	25%	79%	100%	19
Normal Hatch-MSet	NA	47%	10%	0.78	5%	6%	11%	26
14-Day Survivors-NSet	NA	32%	14%	0.60	6%	8%	31%	16
14-Day Survivors-MSet	NA	44%	9%	0.77	5%	6%	11%	31



F1 Hatch Weights		Females						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b> Hatch Weight	NA	28%	57%	3.57	10%	31%	98%	5
<b>F1A-P1B</b> Hatch Weight	NA	9%	11%	2.73	13%	43%	100%	44
<b>F1B-P1A</b> Hatch Weight	NA	25%	18%	6.35	7%	13%	58%	7
<b>F1B-P1B</b> Hatch Weight	NA	7%	7%	4.00	9%	23%	92%	66

F2 Hatch Weights		Females						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b>								
Hatch								
Weight	NA	17%	61%	1.82	23%	77%	100%	9
14-Day Wt	NA	17%	83%	18.1	36%	94%	100%	6
<b>F1A-P1B</b>								
Hatch								
Weight	NA	4%	10%	1.20	48%	99%	100%	183
14-Day Wt	NA	5%	11%	18.2	34%	93%	100%	140
<b>F1B-P1A</b>								
Hatch								
Weight	NA	8%	13%	2.00	20%	68%	100%	34
14-Day Wt	NA	5%	8%	22.3	24%	79%	100%	76
<b>F1B-P1B</b>								
Hatch								
Weight	NA	12%	67%	1.18	49%	99%	100%	19
14-Day Wt	NA	7%	29%	14.6	52%	99%	100%	44

F1 Hatch Weights		Males						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b> Hatch Weight	NA	3%	5%	5.81	7%	13%	60%	262
<b>F1A-P1B</b> Hatch Weight	NA	11%	7%	6.00	7%	13%	60%	28
<b>F1B-P1A</b> Hatch Weight	NA	14%	7%	7.42	6%	10%	40%	28
<b>F1B-P1B</b> Hatch Weight	NA	9%	12%	2.90	13%	43%	100%	31

F2 Hatch Weights		Males						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b>								
Hatch								
Weight	NA	17%	74%	1.56	30%	89%	100%	6
14-Day Wt	NA	13%	44%	19.9	29%	87%	100%	10
<b>F1A-P1B</b>								
Hatch								
Weight	NA	9%	47%	1.04	58%	100%	100%	33
14-Day Wt	NA	10%	62%	12.0	65%	100%	100%	25
<b>F1B-P1A</b>								
Hatch								
Weight	NA	9%	12%	2.53	13%	45%	100%	29
14-Day Wt	NA	9%	9%	40.4	10%	28%	97%	51
<b>F1B-P1B</b>								
Hatch								
Weight	NA	10%	36%	1.38	34%	93%	100%	30
14-Day Wt	NA	9%	39%	14.3	48%	99%	100%	29

### P1 Egg Thickness and Strength

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>P1A</b>								
MeanThick	NA	8%	19%	0.04	30%	89%	100%	33
MeanMaxL	NA	21%	34%	3.40	11%	32%	99%	18
MeanStiff	Ln	2%	29%	0.37	100%	100%	100%	21
MeanLR	NA	21%	34%	2.72	11%	32%	99%	18
<b>P1B</b>								
MeanThick	NA	2%	7%	0.03	55%	100%	100%	285
MeanMaxL	NA	9%	12%	2.99	14%	50%	100%	69
MeanStiff	Ln	2%	17%	0.47	100%	100%	100%	45
MeanLR	NA	9%	12%	2.40	14%	50%	100%	69

### F1 Egg Thickness and Strength

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b>								
MeanThick	NA	4%	7%	0.04	24%	77%	100%	64
MeanMaxL	NA	9%	8%	4.57	9%	22%	90%	42
MeanStiff	Ln	1%	13%	0.30	100%	100%	100%	19
MeanLR	NA	9%	8%	3.65	9%	22%	90%	42
<b>F1A-P1B</b>								
MeanThick	NA	5%	13%	0.03	40%	96%	100%	28
MeanMaxL	NA	19%	30%	3.87	11%	33%	99%	11
MeanStiff	Ln	1%	19%	0.34	100%	100%	100%	17
MeanLR	NA	19%	30%	3.10	11%	33%	99%	11
<b>F1B-P1A</b>								
MeanThick	NA	5%	6%	0.09	10%	26%	93%	45
MeanMaxL	NA	11%	6%	9.68	6%	9%	31%	54
MeanStiff	Ln	1%	6%	0.65	100%	100%	100%	86
MeanLR	NA	11%	6%	7.74	6%	9%	31%	54
<b>F1B-P1B</b>								
MeanThick	NA	7%	13%	0.05	20%	66%	100%	19
MeanMaxL	NA	16%	11%	6.38	7%	14%	67%	25
MeanStiff	Ln	1%	8%	0.40	100%	100%	100%	42
MeanLR	NA	16%	11%	5.10	7%	14%	67%	25

<b>P1 Fecal</b>								
<b>Variable</b>	<b>Data Transformation</b>	<b>Observed Maximum Percent Difference</b>	<b>Observed Power</b>	<b>Detected Difference at Power = 80%</b>	<b>Power at Delta = 10%</b>	<b>Power at Delta = 20%</b>	<b>Power at Delta = 50%</b>	<b>Sample Size Required to Achieve 80% Power for observed Delta</b>
<b>Female P1A</b>	NA							
Testosterone	Ln	5%	12%	0.78	34%	93%	100%	62
Estradiol	Ln	62%	100%	0.52	74%	100%	100%	2
<b>Female P1B</b>	NA							
Testosterone	Ln	4%	11%	0.56	58%	100%	100%	66
Estradiol	Ln	67%	100%	0.36	97%	100%	100%	2
<b>Male P1A</b>	NA							
Testosterone	Ln	3%	10%	0.57	80%	100%	100%	77
Estradiol	Ln	104%	100%	0.49	56%	100%	100%	2
<b>Male P1B</b>	NA							
Testosterone	Ln	5%	50%	0.36	100%	100%	100%	15
Estradiol	Ln	98%	100%	0.65	35%	94%	100%	2

**P1A Egg Extracts**

<b>Variable</b>	<b>Data Transformation</b>	<b>Observed Maximum Percent Difference</b>	<b>Observed Power</b>	<b>Detected Difference at Power = 80%</b>	<b>Power at Delta = 10%</b>	<b>Power at Delta = 20%</b>	<b>Power at Delta = 50%</b>	<b>Sample Size Required to Achieve 80% Power for observed Delta</b>
<b>P1A</b>								
Testosterone	Ln	40%	58%	0.55	8%	17%	80%	6
Estradiol	NA	150%	90%	0.19	5%	6%	15%	4
<b>P1B</b>								
Testosterone	Ln	21%	39%	0.41	12%	37%	100%	9
Estradiol	NA	68%	23%	0.16	5%	6%	14%	14

**F1 Egg Extracts**

<b>Variable</b>	<b>Data Transformation</b>	<b>Observed Maximum Percent Difference</b>	<b>Observed Power</b>	<b>Detected Difference at Power = 80%</b>	<b>Power at Delta = 10%</b>	<b>Power at Delta = 20%</b>	<b>Power at Delta = 50%</b>	<b>Sample Size Required to Achieve 80% Power for observed Delta</b>
<b>F1A-P1A</b>								
Testosterone	Ln	31%	9%	2.74	5%	7%	17%	15
Estradiol	Ln	42%	8%	0.59	5%	6%	9%	21
<b>F1B-P1B</b>								
Testosterone	Ln	10%	6%	2.25	6%	7%	22%	112
Estradiol	Ln	21%	6%	0.49	5%	6%	14%	40



**P1 Maturation**

<b>Variable</b>	<b>Data Transformation</b>	<b>Observed Maximum Percent Difference</b>	<b>Observed Power</b>	<b>Detected Difference at Power = 80%</b>	<b>Power at Delta = 10%</b>	<b>Power at Delta = 20%</b>	<b>Power at Delta = 50%</b>	<b>Sample Size Required to Achieve 80% Power for observed Delta</b>
<b>P1A</b>								
age-FEgg	NA	7%	13%	8.79	24%	79%	100%	53
Age-FFoam	NA	1%	6%	3.81	79%	100%	100%	723
<b>P1B</b>								
Age-FEgg	NA	2%	6%	6.44	38%	96%	100%	748
Age-FF	NA	5%	35%	3.04	96%	100%	100%	26

**F1 Maturation**

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b>								
Age-FEgg	NA	14%	15%	15.7	10%	28%	95%	8
AgeFEgg with extras	NA	10%	36%	6.79	33%	92%	100%	22
Age-FFoam	NA	11%	22%	9.10	19%	62%	100%	6
<b>F1A-P1B</b>								
Age-FEgg	Ln	4%	13%	0.48	57%	99%	100%	10
AgeFEgg with extras	Ln	5%	40%	0.27	98%	100%	100%	9
Age-FFoam	NA	8%	9%	11.2	13%	42%	99%	15
<b>F1B-P1A</b>								
Age-FEgg	NA	4%	5%	22.5	7%	16%	71%	164
AgeFEgg with extras	Ln	1%	5%	0.53	49%	98%	100%	476
Age-FFoam	NA	19%	47%	10.3	16%	51%	100%	3
<b>F1B-P1B</b>								
Age-FEgg	NA	6%	7%	14.1	11%	32%	99%	58
AgeFEgg with extras	NA	11%	12%	14.0	11%	31%	98%	22
Age-FFoam	NA	8%	12%	8.49	19%	64%	100%	20

**P1 Female Necropsy**

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>P1A</b>								
Necropsy Body Weight (g)	NA	6%	11%	57.3	26%	83%	100%	73
Thyroid Weight (g)	NA	17%	9%	0.025	6%	11%	52%	95
Adrenal Gland Weight (g)	NA	21%	8%	0.029	6%	8%	27%	120
Liver Weight (g)	NA	14%	16%	3.43	10%	31%	99%	41
Brain Weight (g)	NA	4%	9%	0.132	38%	95%	100%	98
Left Ovary Weight (g)	NA	31%	20%	5.58	6%	10%	47%	32
Number Eggs > 4 mm	Sqrt	13%	11%	1.00	9%	23%	93%	68
Left Oviduct Weight (g)	NA	17%	10%	7.04	7%	12%	61%	82
Ratio of Thyroid to Body Weight	NA	17%	10%	0.00010	7%	12%	60%	77
Ratio of Adrenal Gland to Body	NA	26%	10%	0.00010	6%	8%	28%	75
Ratio of Liver to Body Weight	NA	16%	28%	0.010	13%	43%	100%	22
Ratio of Brain to Body Weight	NA	5%	7%	0.00080	15%	51%	100%	154
Ratio of Left Ovary to Body Weight	NA	31%	23%	0.017	7%	12%	57%	27
Ratio of Left Oviduct to Body Weight	NA	21%	13%	0.024	7%	13%	62%	51
Ratio of Thyroid to Brain	NA	16%	8%	0.033	6%	10%	45%	129
Ratio of Adrenal Gland to Brain	NA	20%	8%	0.037	6%	8%	26%	144
Ratio of Liver to Brain	NA	14%	14%	4.56	9%	26%	96%	50
Ratio of Left Ovary to Brain	Ln	8%	13%	0.56	18%	63%	100%	53
Ratio of Left Oviduct to Brain	NA	17%	10%	8.86	7%	12%	57%	85

### P1 Male Necropsy

Variable	Data Transformation	Observed	Observed Power	Detected	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
		Maximum Percent Difference		Difference at Power = 80%				
<b>P1A</b>								
Necropsy Body Weight (g)	NA	7%	20%	34.9	39%	96%	100%	31
Cloacal Gland Weight (g)	NA	33%	13%	2.04	6%	8%	26%	53
Thyroid Weight (g)	NA	17%	7%	0.027	6%	8%	27%	192
Adrenal Gland Weight (g)	NA	11%	6%	0.027	6%	9%	40%	314
Liver Weight (g)	NA	22%	66%	1.17	15%	54%	100%	10
Left Testis Weight (g)	Ln	3%	7%	0.25	34%	93%	100%	172
Right Testis Weight (g)	NA	5%	7%	1.02	12%	40%	100%	213
Brain Weight (g)	Ln	7%	14%	0.12	23%	78%	100%	50
Ratio of Thyroid to Body Weight	NA	21%	9%	0.00010	6%	8%	31%	105
Ratio of Adrenal Gland to Body Weight	NA	16%	8%	0.00010	6%	9%	40%	139
Ratio of Liver to Body Weight	NA	15%	55%	0.0039	25%	82%	100%	12
Ratio of Left Testis to Body Weight	NA	6%	8%	0.0045	13%	42%	100%	139
Ratio of Right Testis to Body Weight	NA	10%	13%	0.0045	12%	41%	100%	54
Ratio of Cloacal Gland to Body Weight	NA	34%	14%	0.0090	6%	8%	27%	47
Ratio of Brain to Body Weight	NA	14%	28%	0.0010	16%	55%	100%	22
Ratio of Thyroid to Brain	NA	12%	6%	0.032	6%	8%	27%	354
Ratio of Adrenal Gland to Brain	NA	9%	6%	0.034	6%	9%	38%	432
Ratio of Liver to Brain	Ln	11%	46%	0.30	36%	94%	100%	14
Ratio of Left Testis to Brain	NA	15%	12%	1.88	8%	18%	85%	63
Ratio of Right Testis to Brain	NA	10%	8%	1.84	8%	19%	86%	139
Ratio of Cloacal Gland to Brain	NA	31%	9%	3.29	5%	6%	16%	109
Ratio of Left to Right Testis	Ln	4%	6%	0.20	14%	48%	100%	256

**P1 Female Necropsy**

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>PIB</b>								
Necropsy Body Weight (g)	NA	2%	5%	64.7	20%	70%	100%	999
Thyroid Weight (g)	NA	30%	23%	0.03	7%	12%	58%	27
Adrenal Gland Weight (g)	NA	22%	8%	0.04	6%	7%	22%	141
Liver Weight (g)	NA	6%	7%	3.32	11%	35%	99%	198
Brain Weight (g)	NA	5%	13%	0.14	35%	94%	100%	56
Left Ovary Weight (g)	NA	19%	18%	4.08	8%	20%	88%	35
Number Eggs > 4 mm	Sqrt	17%	23%	0.75	10%	30%	98%	27
Left Oviduct Weight (g)	Ln	3%	12%	0.24	81%	100%	100%	61
Ratio of Thyroid to Body Weight	NA	31%	28%	0.00010	7%	14%	68%	22
Ratio of Adrenal Gland to Body	NA	28%	9%	0.00010	5%	7%	20%	97
Ratio of Liver to Body Weight	NA	6%	7%	0.010	14%	46%	100%	156
Ratio of Brain to Body Weight	NA	3%	6%	0.00080	15%	53%	100%	419
Ratio of Left Ovary to Body Weight	NA	18%	22%	0.012	9%	26%	96%	28
Ratio of Left Oviduct to Body Weight	NA	11%	16%	0.010	14%	49%	100%	41
Ratio of Thyroid to Brain	NA	31%	17%	0.052	6%	9%	39%	39
Ratio of Adrenal Gland to Brain	NA	25%	9%	0.047	6%	7%	24%	98
Ratio of Liver to Brain	Ln	2%	6%	0.33	57%	100%	100%	263
Ratio of Left Ovary to Brain	NA	18%	13%	5.62	7%	16%	78%	52
Ratio of Left Oviduct to Brain	NA	15%	30%	3.58	15%	52%	100%	20

### P1 Male Necropsy

Variable	Data Transformation	Observed	Observed Power	Detected	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
		Maximum Percent Difference		Difference at Power = 80%				
<b>PIB</b>								
Necropsy Body Weight (g)	NA	7%	13%	44.0	26%	82%	100%	54
Cloacal Gland Weight (g)	NA	152%	29%	2.38	5%	5%	7%	21
Thyroid Weight (g)	NA	32%	20%	0.019	6%	10%	46%	32
Adrenal Gland Weight (g)	NA	27%	24%	0.025	7%	14%	72%	25
Liver Weight (g)	NA	5%	6%	1.66	10%	31%	99%	252
Left Testis Weight (g)	NA	7%	8%	1.10	11%	32%	99%	138
Right Testis Weight (g)	NA	14%	19%	1.030	11%	35%	99%	34
Brain Weight (g)	Ln	3%	8%	0.075	60%	100%	100%	138
Ratio of Thyroid to Body Weight	NA	26%	15%	0.00010	6%	10%	48%	46
Ratio of Adrenal Gland to Body Weight	NA	32%	33%	0.00010	7%	15%	72%	19
Ratio of Liver to Body Weight	NA	5%	9%	0.0049	19%	65%	100%	111
Ratio of Left Testis to Body Weight	NA	7%	9%	0.0040	13%	46%	100%	97
Ratio of Right Testis to Body Weight	NA	9%	12%	0.0036	15%	54%	100%	57
Ratio of Cloacal Gland to Body Weight	NA	154%	31%	0.010	5%	5%	7%	20
Ratio of Brain to Body Weight	NA	8%	15%	0.00080	20%	71%	100%	44
Ratio of Thyroid to Brain	NA	34%	24%	0.023	6%	11%	49%	26
Ratio of Adrenal Gland to Brain	NA	28%	24%	0.030	7%	14%	69%	26
Ratio of Liver to Brain	NA	10%	9%	2.17	9%	27%	97%	89
Ratio of Left Testis to Brain	NA	10%	9%	1.43	10%	27%	97%	89
Ratio of Right Testis to Brain	NA	16%	17%	1.46	9%	26%	96%	37
Ratio of Cloacal Gland to Brain	NA	169%	31%	3.09	5%	5%	7%	20
Ratio of Left to Right Testis	Ln	5%	9%	0.13	30%	88%	100%	96

**F1 Female Necropsy**

<b>Variable</b>	<b>Data Transformation</b>	<b>Observed Maximum Percent Difference</b>	<b>Observed Power</b>	<b>Detected Difference at Power = 80%</b>	<b>Power at Delta = 10%</b>	<b>Power at Delta = 20%</b>	<b>Power at Delta = 50%</b>	<b>Sample Size Required to Achieve 80% Power for observed Delta</b>
<b>F1A-P1A</b>								
Necropsy Body Weight (g)	Ln	5%	67%	0.34	100%	100%	100%	4
Thyroid Weight (g)	NA	30%	7%	0.064	5%	6%	12%	56
Adrenal Gland Weight (g)	NA	36%	7%	0.10	5%	5%	8%	78
Liver Weight (g)	NA	22%	12%	7.11	6%	11%	48%	21
Pancreas Weight (g)	Ln	26%	28%	0.31	8%	18%	81%	8
Spleen Weight (g)	NA	122%	41%	0.35	5%	6%	10%	6
Brain Weight (g)	NA	4%	6%	0.35	8%	21%	89%	216
Left Ovary Weight (g)	NA	26%	21%	4.51	7%	14%	67%	11
Left Oviduct Weight (g)	NA	24%	17%	6.33	7%	13%	63%	13
Number Eggs > 4 mm	Sqrt	7%	6%	1.34	7%	14%	68%	128
Ratio of Thyroid to Body Weight	NA	32%	7%	0.00020	5%	6%	11%	53
Ratio of Adrenal Gland to Body Weight	NA	32%	6%	0.00040	5%	5%	8%	105
Ratio of Liver to Body Weight	NA	18%	10%	0.023	6%	11%	53%	27
Ratio of Pancreas to Body Weight	NA	11%	7%	0.0020	7%	12%	58%	68
Ratio of Spleen to Body Weight	Ln	123%	38%	0.0013	5%	6%	9%	6
Ratio of Brain to Body Weight	NA	40%	54%	0.0015	7%	16%	75%	5
Ratio of Left Ovary to Body Weight	NA	15%	12%	0.013	8%	19%	85%	20
Ratio of Left Oviduct to Body Weight	NA	11%	8%	0.019	8%	17%	79%	38
Ratio of Thyroid to Brain	NA	24%	6%	0.082	5%	6%	12%	85
Ratio of Adrenal Gland to Brain	NA	33%	7%	0.11	5%	6%	9%	78
Ratio of Liver to Brain	NA	28%	16%	9.66	6%	10%	44%	15
Ratio of Pancreas to Brain	NA	36%	20%	0.94	6%	9%	37%	11
Ratio of Spleen to Brain	NA	115%	35%	0.47	5%	6%	10%	7
Ratio of Left Ovary to Brain	Ln	14%	24%	0.68	14%	48%	100%	10
Ratio of Left Oviduct to Brain	Ln	11%	17%	0.76	14%	47%	100%	13

**F1 Male Necropsy**

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b>								
Necropsy Body Weight (g)	NA	19%	33%	81.9	12%	35%	98%	4
Thyroid Weight (g)	NA	86%	12%	0.081	5%	5%	7%	11
Adrenal Gland Weight (g)	NA	117%	20%	0.10	5%	5%	7%	6
Liver Weight (g)	NA	9.9%	6%	5.09	6%	8%	24%	94
Pancreas Weight (g)	NA	30%	9%	0.76	5%	7%	17%	17
Spleen Weight (g)	NA	72%	7%	0.34	5%	5%	6%	27
Left Testis Weight (g)	NA	47%	23%	3.74	6%	8%	25%	5
Right Testis Weight (g)	NA	51%	16%	4.21	5%	7%	16%	7
Cloacal Gland Weight (g)	NA	128%	11%	6.48	5%	5%	6%	12
Brain Weight (g)	NA	30%	61%	0.22	10%	30%	96%	3
Ratio of Thyroid to Body Weight	NA	81%	12%	0.00030	5%	5%	7%	11
Ratio of Adrenal Gland to Body Weight	NA	135%	27%	0.00040	5%	5%	8%	5
Ratio of Liver to Body Weight	NA	19%	7%	0.022	6%	8%	24%	26
Ratio of Pancreas to Body Weight	NA	22%	7%	0.0036	5%	6%	15%	35
Ratio of Spleen to Body Weight	NA	81%	8%	0.0015	5%	5%	6%	21
Ratio of Left Testis to Body Weight	NA	24%	9%	0.015	6%	8%	28%	15
Ratio of Right Testis to Body Weight	NA	27%	8%	0.017	5%	7%	18%	19
Ratio of Cloacal Gland to Body Weight	NA	142%	11%	0.030	5%	5%	6%	12
Ratio of Brain to Body Weight	NA	40%	28%	0.0027	6%	10%	42%	5
Ratio of Thyroid to Brain	NA	188%	29%	0.13	5%	5%	6%	5
Ratio of Adrenal Gland to Brain	NA	122%	17%	0.15	5%	5%	7%	7
Ratio of Liver to Brain	NA	45%	12%	9.27	5%	6%	14%	11
Ratio of Pancreas to Brain	NA	29%	7%	1.27	5%	6%	11%	31
Ratio of Spleen to Brain	NA	110%	9%	0.51	5%	5%	6%	17
Ratio of Left Testis to Brain	NA	71%	35%	5.71	5%	7%	19%	4
Ratio of Right Testis to Brain	NA	80%	30%	5.90	5%	6%	14%	4
Ratio of Cloacal Gland to Brain	NA	123%	12%	7.33	5%	5%	6%	11
Ratio of Left to Right Testis	NA	15%	5%	2.36	5%	6%	11%	124



## F1 Female Necropsy

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1B</b>								
Necropsy Body Weight (g)	Ln	1%	9%	0.23	100%	100%	100%	50
Thyroid Weight (g)	NA	23%	8%	0.047	6%	7%	23%	59
Adrenal Gland Weight (g)	NA	37%	9%	0.066	5%	6%	14%	46
Liver Weight (g)	NA	9%	6%	5.77	7%	13%	62%	140
Pancreas Weight (g)	Ln	20%	20%	0.29	8%	21%	89%	16
Spleen Weight (g)	NA	74%	28%	0.25	5%	6%	15%	12
Brain Weight (g)	NA	7%	11%	0.18	21%	72%	100%	34
Left Ovary Weight (g)	NA	17%	7%	6.95	6%	8%	26%	98
Left Oviduct Weight (g)	NA	12%	9%	4.68	7%	16%	78%	51
Number Eggs > 4 mm	Sqrt	11%	8%	1.09	8%	18%	83%	62
Ratio of Thyroid to Body Weight	NA	23%	9%	0.00010	6%	8%	30%	45
Ratio of Adrenal Gland to Body Weight	NA	29%	8%	0.00020	5%	6%	16%	63
Ratio of Liver to Body Weight	NA	12%	8%	0.018	7%	16%	75%	58
Ratio of Pancreas to Body Weight	NA	25%	25%	0.0017	8%	17%	79%	13
Ratio of Spleen to Body Weight	NA	68%	26%	0.00090	5%	6%	15%	13
Ratio of Brain to Body Weight	Ln	7%	9%	0.00080	15%	52%	100%	46
Ratio of Left Ovary to Body Weight	NA	13%	7%	0.021	6%	9%	35%	121
Ratio of Left Oviduct to Body Weight	NA	8%	7%	0.014	9%	22%	91%	82
Ratio of Thyroid to Brain	Ln	24%	9%	0.052	6%	8%	27%	49
Ratio of Adrenal Gland to Brain	NA	30%	8%	0.083	5%	6%	13%	70
Ratio of Liver to Brain	NA	10%	7%	6.93	7%	13%	64%	105
Ratio of Pancreas to Brain	NA	23%	17%	0.67	7%	14%	67%	19
Ratio of Spleen to Brain	NA	68%	27%	0.29	5%	7%	16%	12
Ratio of Left Ovary to Brain	NA	19%	7%	8.99	6%	7%	23%	84
Ratio of Left Oviduct to Brain	NA	14%	8%	6.95	7%	12%	59%	57

### F1 Male Necropsy

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1B</b>								
Necropsy Body Weight (g)	NA	4%	6%	102	9%	21%	86%	112
Thyroid Weight (g)	NA	59%	10%	0.071	5%	6%	8%	14
Adrenal Gland Weight (g)	NA	14%	5%	0.15	5%	5%	7%	483
Liver Weight (g)	NA	21%	12%	3.28	6%	11%	50%	11
Pancreas Weight (g)	NA	25%	9%	0.52	6%	7%	22%	18
Spleen Weight (g)	NA	62%	7%	0.32	5%	5%	7%	26
Left Testis Weight (g)	NA	9%	6%	3.42	6%	8%	25%	108
Right Testis Weight (g)	NA	8%	5%	3.41	6%	8%	26%	133
Cloacal Gland Weight (g)	NA	70%	17%	5.80	5%	6%	11%	7
Brain Weight (g)	NA	12%	8%	0.45	7%	14%	64%	23
Ratio of Thyroid to Body Weight	NA	56%	9%	0.00030	5%	5%	8%	18
Ratio of Adrenal Gland to Body Weight	NA	16%	5%	0.00070	5%	5%	7%	330
Ratio of Liver to Body Weight	NA	20%	12%	0.014	7%	12%	53%	10
Ratio of Pancreas to Body Weight	NA	30%	9%	0.0027	5%	7%	18%	16
Ratio of Spleen to Body Weight	NA	52%	7%	0.0012	5%	5%	7%	26
Ratio of Left Testis to Body Weight	NA	12%	7%	0.013	6%	9%	36%	40
Ratio of Right Testis to Body Weight	NA	11%	6%	0.013	6%	9%	36%	47
Ratio of Cloacal Gland to Body Weight	NA	70%	16%	0.027	5%	6%	10%	8
Ratio of Brain to Body Weight	NA	14%	8%	0.0025	6%	11%	46%	22
Ratio of Thyroid to Brain	NA	49%	9%	0.088	5%	6%	9%	17
Ratio of Adrenal Gland to Brain	NA	20%	5%	0.18	5%	5%	7%	200
Ratio of Liver to Brain	NA	22%	9%	5.70	6%	9%	32%	15
Ratio of Pancreas to Brain	NA	12%	6%	0.83	5%	7%	17%	93
Ratio of Spleen to Brain	NA	50%	7%	0.40	5%	5%	7%	33
Ratio of Left Testis to Brain	NA	8%	5%	5.39	6%	7%	20%	173
Ratio of Right Testis to Brain	NA	7%	5%	5.35	6%	7%	20%	215
Ratio of Cloacal Gland to Brain	NA	70%	18%	7.41	5%	6%	11%	7
Ratio of Left to Right Testis	NA	13%	5%	1.57	5%	6%	13%	120

**F1 Female Necropsy**

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>FIB-P1A</b>								
Necropsy Body Weight (g)	Ln	3%	24%	0.31	100%	100%	100%	5
Thyroid Weight (g)	NA	22%	7%	0.059	5%	6%	14%	38
Adrenal Gland Weight (g)	NA	50%	8%	0.11	5%	5%	8%	20
Liver Weight (g)	NA	14%	8%	6.76	7%	12%	54%	21
Pancreas Weight (g)	Ln	16%	9%	0.42	7%	12%	55%	15
Spleen Weight (g)	NA	30%	7%	0.35	5%	6%	11%	33
Brain Weight (g)	NA	6%	6%	0.52	7%	12%	56%	88
Left Ovary Weight (g)	Ln	5%	6%	0.83	10%	29%	96%	57
Left Oviduct Weight (g)	NA	15%	9%	6.84	7%	13%	58%	17
Number Eggs > 4 mm	Sqrt	19%	11%	1.54	7%	12%	56%	11
Ratio of Thyroid to Body Weight	NA	28%	7%	0.00020	5%	6%	13%	26
Ratio of Adrenal Gland to Body Weight	NA	72%	11%	0.00040	5%	5%	8%	12
Ratio of Liver to Body Weight	NA	10%	6%	0.028	6%	10%	42%	54
Ratio of Pancreas to Body Weight	NA	25%	10%	0.0030	6%	8%	30%	13
Ratio of Spleen to Body Weight	NA	19%	6%	0.0013	5%	6%	10%	83
Ratio of Brain to Body Weight	NA	14%	7%	0.0021	6%	10%	43%	27
Ratio of Left Ovary to Body Weight	NA	17%	8%	0.026	6%	9%	31%	24
Ratio of Left Oviduct to Body Weight	NA	9%	7%	0.022	7%	14%	65%	34
Ratio of Thyroid to Brain	NA	28%	7%	0.084	5%	6%	12%	30
Ratio of Adrenal Gland to Brain	NA	66%	10%	0.14	5%	5%	8%	13
Ratio of Liver to Brain	NA	13%	6%	14.4	6%	7%	23%	55
Ratio of Pancreas to Brain	NA	14%	7%	1.15	6%	8%	27%	40
Ratio of Spleen to Brain	NA	28%	6%	0.49	5%	6%	10%	44
Ratio of Left Ovary to Brain	NA	11%	6%	8.84	6%	9%	34%	54
Ratio of Left Oviduct to Brain	NA	11%	6%	14.6	6%	8%	24%	82

**F1 Male Necropsy**

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1B-P1A</b>								
Necropsy Body Weight (g)	NA	16%	13%	121	8%	18%	77%	9
Thyroid Weight (g)	NA	86%	12%	0.081	5%	5%	7%	11
Adrenal Gland Weight (g)	NA	78%	10%	0.11	5%	5%	7%	13
Liver Weight (g)	NA	7%	5%	5.15	6%	8%	24%	164
Pancreas Weight (g)	NA	15%	7%	0.52	6%	9%	32%	30
Spleen Weight (g)	NA	145%	13%	0.38	5%	5%	6%	9
Left Testis Weight (g)	NA	38%	23%	3.06	6%	9%	36%	5
Right Testis Weight (g)	NA	12%	6%	3.67	6%	7%	20%	80
Cloacal Gland Weight (g)	NA	130%	14%	5.53	5%	5%	6%	9
Brain Weight (g)	NA	13%	11%	0.37	8%	21%	85%	11
Ratio of Thyroid to Body Weight	NA	123%	20%	0.00030	5%	5%	7%	6
Ratio of Adrenal Gland to Body Weight	NA	89%	11%	0.00050	5%	5%	7%	12
Ratio of Liver to Body Weight	NA	10%	6%	0.021	6%	8%	26%	80
Ratio of Pancreas to Body Weight	NA	9%	6%	0.0026	6%	8%	24%	104
Ratio of Spleen to Body Weight	NA	156%	12%	0.0019	5%	5%	6%	10
Ratio of Left Testis to Body Weight	NA	26%	17%	0.011	7%	12%	52%	7
Ratio of Right Testis to Body Weight	NA	15%	6%	0.015	6%	7%	20%	52
Ratio of Cloacal Gland to Body Weight	NA	159%	18%	0.024	5%	5%	6%	7
Ratio of Brain to Body Weight	NA	12%	7%	0.0024	6%	11%	50%	30
Ratio of Thyroid to Brain	NA	108%	22%	0.086	5%	5%	8%	5
Ratio of Adrenal Gland to Brain	NA	61%	9%	0.12	5%	5%	8%	16
Ratio of Liver to Brain	NA	12%	7%	5.21	6%	9%	35%	40
Ratio of Pancreas to Brain	NA	18%	8%	0.63	6%	9%	35%	20
Ratio of Spleen to Brain	NA	136%	14%	0.43	5%	5%	6%	9
Ratio of Left Testis to Brain	NA	30%	11%	4.83	6%	8%	25%	11
Ratio of Right Testis to Brain	NA	11%	5%	5.31	5%	7%	16%	128
Ratio of Cloacal Gland to Brain	NA	154%	18%	6.72	5%	5%	6%	6
Ratio of Left to Right Testis	NA	36%	9%	1.96	5%	6%	14%	16

**F1 Female Necropsy**

<b>Variable</b>	<b>Data Transformation</b>	<b>Observed Maximum Percent Difference</b>	<b>Observed Power</b>	<b>Detected Difference at Power = 80%</b>	<b>Power at Delta = 10%</b>	<b>Power at Delta = 20%</b>	<b>Power at Delta = 50%</b>	<b>Sample Size Required to Achieve 80% Power for observed Delta</b>
<b>F1B-P1B</b>								
Necropsy Body Weight (g)	ln	2%	13%	0.33	100%	100%	100%	19
Thyroid Weight (g)	NA	11%	6%	0.055	5%	7%	18%	223
Adrenal Gland Weight (g)	NA	17%	6%	0.083	5%	6%	10%	223
Liver Weight (g)	NA	13%	8%	5.85	7%	13%	61%	43
Pancreas Weight (g)	NA	14%	7%	0.71	6%	10%	43%	53
Spleen Weight (g)	NA	32%	7%	0.34	5%	6%	10%	62
Brain Weight (g)	NA	8%	9%	0.26	12%	38%	100%	30
Left Ovary Weight (g)	ln	17%	21%	0.79	10%	27%	96%	11
Left Oviduct Weight (g)	NA	21%	13%	5.79	7%	12%	57%	19
Number Eggs > 4 mm	Sqrt	8%	7%	0.98	9%	21%	90%	64
Ratio of Thyroid to Body Weight	NA	13%	6%	0.00020	6%	7%	22%	124
Ratio of Adrenal Gland to Body Weight	NA	16%	6%	0.00030	5%	6%	11%	232
Ratio of Liver to Body Weight	NA	12%	8%	0.020	7%	14%	69%	44
Ratio of Pancreas to Body Weight	NA	14%	9%	0.0020	7%	14%	66%	34
Ratio of Spleen to Body Weight	NA	16%	6%	0.0011	5%	6%	12%	194
Ratio of Brain to Body Weight	NA	10%	9%	0.0013	9%	23%	93%	36
Ratio of Left Ovary to Body Weight	ln	36%	18%	0.022	6%	9%	34%	12
Ratio of Left Oviduct to Body Weight	NA	16%	14%	0.015	8%	20%	88%	16
Ratio of Thyroid to Brain	NA	11%	5%	0.077	5%	6%	15%	294
Ratio of Adrenal Gland to Brain	NA	11%	5%	0.11	5%	6%	10%	555
Ratio of Liver to Brain	NA	15%	8%	8.04	6%	11%	50%	41
Ratio of Pancreas to Brain	NA	8%	6%	0.88	6%	10%	43%	174
Ratio of Spleen to Brain	NA	28%	7%	0.40	5%	6%	10%	76
Ratio of Left Ovary to Brain	ln	16%	19%	0.86	10%	28%	97%	12
Ratio of Left Oviduct to Brain	NA	25%	13%	8.26	6%	10%	44%	18

### F1 Male Necropsy

Variable	Data Transformation	Observed Maximum Percent	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for
<b>F1B-P1B</b>								
Necropsy Body Weight (g)	NA	5%	7%	61.5	14%	49%	100%	85
Thyroid Weight (g)	NA	51%	13%	0.045	5%	6%	12%	28
Adrenal Gland Weight (g)	NA	25%	7%	0.060	5%	6%	15%	91
Liver Weight (g)	NA	13%	10%	2.26	8%	18%	82%	44
Pancreas Weight (g)	ln	28%	25%	0.21	7%	14%	70%	13
Spleen Weight (g)	ln	115%	34%	0.17	5%	6%	9%	10
Left Testis Weight (g)	ln	10%	6%	2.33	6%	10%	47%	141
Right Testis Weight (g)	ln	10%	14%	0.42	13%	45%	100%	25
Cloacal Gland Weight (g)	ln	26%	18%	0.85	7%	12%	59%	19
Brain Weight (g)	ln	7%	9%	0.16	13%	45%	100%	46
Ratio of Thyroid to Body Weight	NA	46%	13%	0.00020	5%	6%	14%	28
Ratio of Adrenal Gland to Body Weight	ln	22%	7%	0.00030	5%	6%	16%	107
Ratio of Liver to Body Weight	NA	10%	8%	0.0094	8%	20%	89%	56
Ratio of Pancreas to Body Weight	ln	30%	18%	0.0015	6%	10%	47%	18
Ratio of Spleen to Body Weight	ln	120%	33%	0.00090	5%	6%	9%	10
Ratio of Left Testis to Body Weight	NA	10%	7%	0.0089	7%	13%	62%	103
Ratio of Right Testis to Body Weight	NA	21%	24%	0.0064	9%	22%	92%	13
Ratio of Cloacal Gland to Body Weight	ln	35%	16%	0.013	6%	8%	29%	22
Ratio of Brain to Body Weight	NA	11%	10%	0.0013	9%	25%	96%	39
Ratio of Thyroid to Brain	NA	45%	11%	0.061	5%	6%	12%	36
Ratio of Adrenal Gland to Brain	NA	18%	6%	0.069	5%	7%	17%	138
Ratio of Liver to Brain	NA	14%	9%	3.62	7%	14%	67%	48
Ratio of Pancreas to Brain	ln	23%	14%	0.32	6%	11%	53%	25
Ratio of Spleen to Brain	ln	96%	26%	0.22	5%	6%	10%	13
Ratio of Left Testis to Brain	NA	6%	5%	3.53	6%	9%	39%	430
Ratio of Right Testis to Brain	ln	9%	11%	0.54	12%	38%	100%	36
Ratio of Cloacal Gland to Brain	ln	29%	24%	0.94	7%	13%	64%	14
Ratio of Left to Right Testis	NA	31%	42%	0.46	8%	19%	86%	8

## F2 Female Necropsy

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b>								
Hatch Body Weight (g)	NA	17%	61%	1.82	23%	77%	100%	9
Necropsy Body Weight (g)	NA	17%	83%	18.1	36%	94%	100%	6
Thyroid Weight (g)	NA	24%	15%	0.013	7%	12%	56%	38
Adrenal Gland Weight (g)	NA	86%	7%	0.540	5%	5%	6%	172
Liver Weight (g)	NA	17%	26%	1.20	11%	36%	100%	20
Pancreas Weight (g)	NA	24%	37%	0.21	9%	26%	97%	14
Spleen Weight (g)	NA	105%	92%	0.062	6%	8%	30%	5
Brain Weight (g)	NA	11%	35%	0.11	28%	85%	100%	15
Left Ovary Weight (g)	NA	34%	45%	0.035	8%	17%	81%	12
Right Ovary Weight (g) if prese	NA	92%	32%	0.041	5%	6%	12%	4
Left Oviduct Weight (g)	NA	21%	6%	0.035	5%	6%	14%	133
Ratio of Thyroid to Body Weight	NA	24%	15%	0.00010	7%	12%	59%	36
Ratio of Adrenal Gland to Body	NA	87%	7%	0.0054	5%	5%	6%	173
Ratio of Liver to Body Weight	NA	15%	30%	0.0091	14%	50%	100%	18
Ratio of Pancreas to Body Weight	NA	22%	38%	0.0017	11%	32%	99%	14
Ratio of Spleen to Body Weight	NA	101%	93%	0.00050	6%	9%	34%	5
Ratio of Brain to Body Weight	NA	6%	11%	0.0012	22%	75%	100%	59
Ratio of Left Ovary to Body Weight	NA	24%	25%	0.00030	8%	18%	85%	20
Ratio of Left Oviduct to Body Weight	NA	30%	9%	0.00030	5%	7%	18%	67
Ratio of Thyroid to Brain	NA	19%	10%	0.023	6%	11%	50%	65
Ratio of Adrenal Gland to Brain	NA	86%	7%	0.91	5%	5%	6%	172
Ratio of Liver to Brain	NA	14%	15%	2.28	10%	29%	98%	36
Ratio of Pancreas to Brain	NA	20%	25%	0.37	9%	24%	94%	21
Ratio of Spleen to Brain	NA	95%	83%	0.11	6%	8%	29%	6
Ratio of Left Ovary to Brain	NA	27%	22%	0.066	7%	14%	70%	23
Ratio of Left Oviduct to Brain	NA	15%	6%	0.049	5%	7%	19%	226

## F2 Male Necropsy

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b>								
Hatch Body Weight (g)	NA	17%	74%	1.56	30%	89%	100%	6
Necropsy Body Weight (g)	NA	8.8%	11%	30.6	13%	43%	100%	46
Thyroid Weight (g)	NA	25%	8%	0.024	5%	7%	18%	91
Adrenal Gland Weight (g)	NA	17%	7%	0.023	6%	8%	25%	133
Liver Weight (g)	NA	18%	22%	1.33	10%	27%	97%	19
Pancreas Weight (g)	NA	83%	11%	1.39	5%	5%	7%	43
Spleen Weight (g)	NA	83%	48%	0.075	5%	7%	19%	9
Brain Weight (g)	NA	6.1%	10%	0.14	20%	69%	100%	54
Left Testis Weight (g)	NA	57%	36%	0.029	6%	8%	28%	12
Right Testis Weight (g)	NA	65%	44%	0.031	6%	8%	27%	10
Cloacal Gland Weight (g)	NA	34%	9%	0.78	5%	6%	15%	65
Ratio of Thyroid to Body Weight	NA	27%	9%	0.00020	5%	7%	19%	73
Ratio of Adrenal Gland to Body Weight	NA	27%	11%	0.00020	6%	8%	29%	46
Ratio of Liver to Body Weight	NA	26%	78%	0.0088	15%	54%	100%	6
Ratio of Pancreas to Body Weight	NA	75%	11%	0.012	5%	5%	7%	47
Ratio of Spleen to Body Weight	NA	76%	44%	0.00070	5%	7%	20%	10
Ratio of Brain to Body Weight	NA	13%	8%	0.0039	7%	12%	58%	87
Ratio of Left Testis to Body Weight	NA	57%	27%	0.00040	6%	7%	21%	16
Ratio of Right Testis to Body Weight	NA	64%	40%	0.00030	6%	8%	25%	11
Ratio of Cloacal Gland to Body Weight	NA	28%	8%	0.0080	5%	6%	15%	93
Ratio of Thyroid to Brain	NA	29%	10%	0.037	6%	7%	21%	57
Ratio of Adrenal Gland to Brain	NA	17%	7%	0.035	6%	8%	30%	117
Ratio of Liver to Brain	NA	16%	22%	2.01	11%	32%	99%	19
Ratio of Pancreas to Brain	NA	96%	12%	2.50	5%	5%	7%	41
Ratio of Spleen to Brain	NA	69%	43%	0.11	6%	7%	23%	10
Ratio of Left Testis to Brain	NA	55%	35%	0.046	6%	8%	29%	12
Ratio of Right Testis to Brain	NA	64%	39%	0.053	6%	8%	25%	11
Ratio of Cloacal Gland to Brain	NA	48%	12%	1.40	5%	6%	13%	40
Ratio of Left to Right Testis	NA	19%	8%	0.93	6%	8%	28%	97



## F2 Female Necropsy

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1B</b>								
Hatch Body Weight (g)	NA	4%	10%	1.20	48%	99%	100%	183
Necropsy Body Weight (g)	NA	5%	9%	23.1	22%	75%	100%	225
Thyroid Weight (g)	NA	26%	10%	0.021	6%	8%	24%	187
Adrenal Gland Weight (g)	NA	16%	9%	0.012	7%	13%	62%	196
Liver Weight (g)	NA	7%	9%	1.03	15%	52%	100%	194
Pancreas Weight (g)	NA	25%	56%	0.15	12%	37%	100%	23
Spleen Weight (g)	NA	56%	66%	0.051	6%	11%	54%	19
Brain Weight (g)	NA	5%	17%	0.076	57%	100%	100%	80
Left Ovary Weight (g)	NA	28%	19%	0.043	6%	11%	55%	71
Right Ovary Weight (g) if prese	NA	64%	7%	0.089	5%	5%	6%	67
Left Oviduct Weight (g)	NA	149%	10%	0.15	5%	5%	5%	112
Ratio of Thyroid to Body Weight	NA	25%	9%	0.00020	6%	7%	24%	212
Ratio of Adrenal Gland to Body	NA	13%	8%	0.00010	7%	12%	61%	306
Ratio of Liver to Body Weight	NA	6%	13%	0.0060	33%	92%	100%	120
Ratio of Pancreas to Body Weight	NA	26%	84%	0.0010	17%	58%	100%	13
Ratio of Spleen to Body Weight	NA	48%	45%	0.00050	6%	10%	48%	29
Ratio of Brain to Body Weight	NA	6%	8%	0.0015	14%	49%	100%	299
Ratio of Left Ovary to Body Weight	NA	18%	11%	0.00040	7%	13%	65%	144
Ratio of Left Oviduct to Body Weight	NA	1501%	11%	0.012	5%	5%	5%	118
Ratio of Thyroid to Brain	NA	23%	9%	0.033	6%	8%	27%	211
Ratio of Adrenal Gland to Brain	NA	14%	8%	0.021	7%	12%	59%	239
Ratio of Liver to Brain	NA	7%	12%	1.54	18%	64%	100%	132
Ratio of Pancreas to Brain	NA	23%	54%	0.24	12%	41%	100%	24
Ratio of Spleen to Brain	NA	48%	60%	0.076	7%	13%	65%	21
Ratio of Left Ovary to Brain	NA	20%	12%	0.069	7%	12%	60%	129
Ratio of Left Oviduct to Brain	NA	25%	8%	0.046	6%	7%	21%	206

## F2 Male Necropsy

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1B</b>								
Hatch Body Weight (g)	NA	9%	47%	1.04	58%	100%	100%	33
Necropsy Body Weight (g)	NA	10%	51%	13.5	53%	99%	100%	31
Thyroid Weight (g)	NA	11%	8%	0.011	7%	16%	78%	328
Adrenal Gland Weight (g)	NA	23%	16%	0.012	7%	13%	66%	102
Liver Weight (g)	NA	8%	22%	0.59	37%	95%	100%	73
Pancreas Weight (g)	NA	20%	52%	0.12	14%	50%	100%	30
Spleen Weight (g)	NA	49%	30%	0.067	6%	8%	31%	52
Brain Weight (g)	NA	4%	9%	0.091	42%	97%	100%	235
Left Testis Weight (g)	NA	45%	13%	0.064	5%	6%	15%	143
Right Testis Weight (g)	ln	28%	10%	0.033	6%	8%	25%	203
Cloacal Gland Weight (g)	NA	12%	7%	0.33	6%	11%	53%	494
Ratio of Thyroid to Body Weight	NA	17%	12%	0.00010	7%	16%	77%	156
Ratio of Adrenal Gland to Body Weight	NA	28%	18%	0.00010	6%	11%	52%	95
Ratio of Liver to Body Weight	NA	6%	23%	0.0044	61%	100%	100%	70
Ratio of Pancreas to Body Weight	NA	14%	34%	0.0011	18%	64%	100%	47
Ratio of Spleen to Body Weight	NA	40%	21%	0.00070	6%	8%	30%	79
Ratio of Brain to Body Weight	NA	10%	19%	0.0013	20%	70%	100%	89
Ratio of Left Testis to Body Weight	NA	49%	14%	0.00070	5%	6%	14%	126
Ratio of Right Testis to Body Weight	NA	28%	10%	0.00030	6%	7%	23%	224
Ratio of Cloacal Gland to Body Weight	NA	17%	9%	0.0031	7%	12%	57%	237
Ratio of Thyroid to Brain	NA	51%	9%	0.13	5%	6%	9%	252
Ratio of Adrenal Gland to Brain	NA	50%	10%	0.099	5%	6%	10%	210
Ratio of Liver to Brain	NA	43%	8%	19.7	5%	6%	10%	298
Ratio of Pancreas to Brain	NA	38%	8%	2.35	5%	6%	10%	354
Ratio of Spleen to Brain	NA	54%	9%	0.58	5%	5%	8%	277
Ratio of Left Testis to Brain	NA	94%	9%	2.93	5%	5%	6%	253
Ratio of Right Testis to Brain	NA	58%	10%	0.23	5%	6%	8%	227
Ratio of Cloacal Gland to Brain	NA	20%	7%	0.91	5%	7%	20%	536
Ratio of Left to Right Testis	NA	28%	11%	1.10	6%	8%	29%	170

**F2 Female Necropsy**

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1B-P1A</b>								
Hatch Body Weight (g)	NA	8%	13%	2.00	20%	68%	100%	34
Necropsy Body Weight (g)	NA	9%	11%	32.5	13%	44%	100%	46
Thyroid Weight (g)	NA	21%	8%	0.020	6%	8%	26%	86
Adrenal Gland Weight (g)	NA	88%	6%	0.61	5%	5%	5%	166
Liver Weight (g)	NA	7%	7%	1.59	9%	22%	91%	134
Pancreas Weight (g)	NA	11%	9%	0.25	8%	19%	87%	68
Spleen Weight (g)	NA	59%	34%	0.069	6%	8%	25%	13
Brain Weight (g)	NA	9%	10%	0.20	11%	35%	99%	51
Left Ovary Weight (g)	ln	189%	10%	0.49	5%	5%	5%	59
Right Ovary Weight (g) if prese	NA	55%	10%	0.055	5%	6%	9%	15
Left Oviduct Weight (g)	NA	27%	6%	0.052	5%	6%	9%	173
Ratio of Thyroid to Body Weight	NA	20%	8%	0.00020	6%	8%	24%	100
Ratio of Adrenal Gland to Body	NA	89%	6%	0.0061	5%	5%	5%	168
Ratio of Liver to Body Weight	NA	9%	9%	0.013	9%	25%	96%	73
Ratio of Pancreas to Body Weight	NA	7%	7%	0.0020	9%	24%	94%	149
Ratio of Spleen to Body Weight	NA	51%	29%	0.00060	6%	8%	28%	15
Ratio of Brain to Body Weight	NA	11%	11%	0.0020	10%	31%	99%	45
Ratio of Left Ovary to Body Weight	NA	433%	9%	0.011	5%	5%	5%	67
Ratio of Left Oviduct to Body Weight	NA	29%	7%	0.00030	5%	6%	13%	102
Ratio of Thyroid to Brain	NA	39%	7%	0.066	5%	6%	9%	103
Ratio of Adrenal Gland to Brain	NA	87%	6%	1.03	5%	5%	5%	172
Ratio of Liver to Brain	NA	48%	8%	14.2	5%	5%	8%	92
Ratio of Pancreas to Brain	NA	43%	8%	1.68	5%	6%	10%	77
Ratio of Spleen to Brain	NA	112%	15%	0.34	5%	5%	7%	29
Ratio of Left Ovary to Brain	NA	502%	10%	2.21	5%	5%	5%	56
Ratio of Left Oviduct to Brain	NA	58%	8%	0.11	5%	5%	7%	84

## F2 Male Necropsy

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1B-P1A</b>								
Hatch Body Weight (g)	NA	9%	12%	2.53	13%	45%	100%	29
Necropsy Body Weight (g)	NA	10%	7%	55.1	7%	15%	74%	90
Thyroid Weight (g)	NA	22%	9%	0.019	6%	8%	29%	54
Adrenal Gland Weight (g)	NA	28%	8%	0.031	5%	6%	16%	67
Liver Weight (g)	NA	4%	5%	1.90	7%	15%	72%	431
Pancreas Weight (g)	ln	8%	6%	0.26	7%	12%	59%	194
Spleen Weight (g)	NA	40%	14%	0.072	5%	7%	20%	24
Brain Weight (g)	NA	6%	8%	0.15	18%	61%	100%	57
Left Testis Weight (g)	NA	49%	10%	0.058	5%	6%	10%	44
Right Testis Weight (g)	NA	42%	9%	0.057	5%	6%	10%	52
Cloacal Gland Weight (g)	NA	49%	14%	0.79	5%	6%	15%	24
Ratio of Thyroid to Body Weight	NA	45%	7%	0.00060	5%	5%	7%	118
Ratio of Adrenal Gland to Body Weight	NA	35%	8%	0.00040	5%	6%	12%	62
Ratio of Liver to Body Weight	NA	7%	9%	0.0093	14%	49%	100%	47
Ratio of Pancreas to Body Weight	NA	3%	5%	0.0030	7%	12%	60%	1146
Ratio of Spleen to Body Weight	NA	47%	25%	0.00060	6%	8%	28%	13
Ratio of Brain to Body Weight	NA	14%	7%	0.0046	6%	10%	45%	86
Ratio of Left Testis to Body Weight	NA	55%	11%	0.00060	5%	6%	10%	34
Ratio of Right Testis to Body Weight	NA	162%	6%	0.0037	5%	5%	5%	142
Ratio of Cloacal Gland to Body Weight	NA	56%	16%	0.0085	5%	6%	14%	20
Ratio of Thyroid to Brain	NA	17%	7%	0.031	6%	8%	29%	89
Ratio of Adrenal Gland to Brain	NA	30%	9%	0.050	5%	7%	16%	54
Ratio of Liver to Brain	NA	9%	8%	2.34	9%	24%	94%	60
Ratio of Pancreas to Brain	NA	5%	5%	0.55	6%	11%	52%	440
Ratio of Spleen to Brain	NA	44%	20%	0.11	6%	8%	25%	16
Ratio of Left Testis to Brain	NA	46%	10%	0.085	5%	6%	11%	42
Ratio of Right Testis to Brain	NA	40%	9%	0.081	5%	6%	12%	45
Ratio of Cloacal Gland to Brain	NA	44%	11%	1.37	5%	6%	13%	33
Ratio of Left to Right Testis	NA	14%	7%	0.74	6%	10%	43%	83

## F2 Female Necropsy

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1B-P1B</b>								
Hatch Body Weight (g)	NA	12%	67%	1.18	50%	99%	100%	19
Necropsy Body Weight (g)	NA	13%	28%	27.0	17%	59%	100%	46
Thyroid Weight (g)	NA	18%	15%	0.010	8%	18%	83%	90
Adrenal Gland Weight (g)	NA	25%	21%	0.011	7%	14%	71%	63
Liver Weight (g)	NA	19%	51%	1.02	15%	53%	100%	25
Pancreas Weight (g)	NA	25%	51%	0.15	11%	34%	99%	25
Spleen Weight (g)	NA	21%	20%	0.037	8%	18%	84%	68
Brain Weight (g)	NA	5%	11%	0.096	37%	95%	100%	145
Left Ovary Weight (g)	NA	30%	33%	0.034	7%	16%	79%	39
Right Ovary Weight (g) if prese	NA	35%	6%	0.063	5%	5%	8%	47
Left Oviduct Weight (g)	NA	20%	11%	0.019	6%	10%	48%	134
Ratio of Thyroid to Body Weight	NA	25%	10%	0.00020	6%	8%	29%	166
Ratio of Adrenal Gland to Body	NA	38%	10%	0.00030	5%	6%	14%	168
Ratio of Liver to Body Weight	NA	8.3%	47%	0.0041	66%	100%	100%	27
Ratio of Pancreas to Body Weight	NA	22%	63%	0.0011	15%	54%	100%	20
Ratio of Spleen to Body Weight	NA	20%	23%	0.00030	9%	22%	93%	57
Ratio of Brain to Body Weight	NA	24%	22%	0.0028	7%	16%	80%	60
Ratio of Left Ovary to Body Weight	NA	23%	28%	0.00030	9%	22%	92%	47
Ratio of Left Oviduct to Body Weight	NA	372%	16%	0.0023	5%	5%	5%	87
Ratio of Thyroid to Brain	NA	12%	10%	0.016	8%	19%	86%	186
Ratio of Adrenal Gland to Brain	NA	23%	18%	0.019	7%	14%	70%	76
Ratio of Liver to Brain	NA	16%	51%	1.44	20%	71%	100%	25
Ratio of Pancreas to Brain	NA	20%	35%	0.25	11%	35%	99%	37
Ratio of Spleen to Brain	NA	23%	24%	0.060	8%	19%	87%	55
Ratio of Left Ovary to Brain	NA	33%	41%	0.057	7%	16%	79%	32
Ratio of Left Oviduct to Brain	NA	12%	7%	0.029	6%	11%	50%	392

## F2 Male Necropsy

Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1B-P1B</b>								
Hatch Body Weight (g)	NA	10%	36%	1.38	34%	93%	100%	30
Necropsy Body Weight (g)	NA	8.3%	16%	22.1	21%	73%	100%	75
Thyroid Weight (g)	NA	18%	11%	0.013	7%	12%	60%	134
Adrenal Gland Weight (g)	NA	23%	13%	0.014	6%	11%	49%	99
Liver Weight (g)	NA	6.9%	9%	0.99	15%	51%	100%	173
Pancreas Weight (g)	NA	23%	44%	0.15	11%	34%	99%	25
Spleen Weight (g)	NA	17%	10%	0.047	7%	12%	60%	143
Brain Weight (g)	NA	4.1%	7%	0.13	21%	72%	100%	310
Left Testis Weight (g)	NA	50%	11%	0.080	5%	6%	11%	122
Right Testis Weight (g)	Ln	66%	26%	0.043	5%	6%	16%	43
Cloacal Gland Weight (g)	NA	26%	8%	0.62	5%	7%	17%	248
Ratio of Thyroid to Body Weight	NA	14%	8%	0.00010	6%	11%	53%	229
Ratio of Adrenal Gland to Body Weight	NA	20%	10%	0.00010	6%	10%	46%	145
Ratio of Liver to Body Weight	NA	9.4%	27%	0.0063	31%	90%	100%	41
Ratio of Pancreas to Body Weight	NA	13%	24%	0.0012	15%	53%	100%	47
Ratio of Spleen to Body Weight	NA	15%	6%	0.00080	5%	7%	21%	623
Ratio of Brain to Body Weight	NA	29%	11%	0.0060	6%	8%	24%	128
Ratio of Left Testis to Body Weight	NA	54%	11%	0.00090	5%	6%	10%	118
Ratio of Right Testis to Body Weight	NA	52%	15%	0.00050	5%	6%	14%	80
Ratio of Cloacal Gland to Body Weight	NA	22%	7%	0.0060	5%	7%	17%	334
Ratio of Thyroid to Brain	NA	103%	7%	0.38	5%	5%	5%	373
Ratio of Adrenal Gland to Brain	NA	165%	8%	0.43	5%	5%	5%	249
Ratio of Liver to Brain	NA	141%	8%	75.0	5%	5%	5%	273
Ratio of Pancreas to Brain	NA	135%	8%	8.80	5%	5%	5%	273
Ratio of Spleen to Brain	NA	104%	7%	1.59	5%	5%	5%	384
Ratio of Left Testis to Brain	NA	94%	8%	3.58	5%	5%	6%	261
Ratio of Right Testis to Brain	NA	73%	6%	0.56	5%	5%	6%	586
Ratio of Cloacal Gland to Brain	NA	235%	12%	5.94	5%	5%	5%	109
Ratio of Left to Right Testis	NA	15%	6%	1.32	6%	7%	21%	617

<b>P1 Cloacal Gland</b>								
<b>Variable</b>	<b>Data Transformation</b>	<b>Observed Maximum Percent Difference</b>	<b>Observed Power</b>	<b>Detected Difference at Power = 80%</b>	<b>Power at Delta = 10%</b>	<b>Power at Delta = 20%</b>	<b>Power at Delta = 50%</b>	<b>Sample Size Required to Achieve 80% Power for observed Delta</b>
<b>P1A</b>								
Slope27-41	NA	136%	22%	4.55	5%	5%	7%	28
Slope34-48	NA	24%	13%	7.96	6%	11%	50%	51
Slope48-116	NA	47%	37%	2.75	6%	10%	43%	17
Day-116	Ln	3%	32%	0.37	100%	100%	100%	19
<b>P1B</b>								
Slope27-41	NA	11%	7%	5.06	7%	12%	58%	296
Slope34-48	NA	10%	13%	4.28	13%	45%	100%	83
Slope48-116	NA	21%	8%	2.60	6%	8%	25%	138
Day-116	Ln	2%	12%	0.36	100%	100%	100%	62
<b>F1 Cloacal Gland</b>								
<b>Variable</b>	<b>Data Transformation</b>	<b>Observed Maximum Percent Difference</b>	<b>Observed Power</b>	<b>Detected Difference at Power = 80%</b>	<b>Power at Delta = 10%</b>	<b>Power at Delta = 20%</b>	<b>Power at Delta = 50%</b>	<b>Sample Size Required to Achieve 80% Power for observed Delta</b>
<b>F1A-P1A</b>								
Slope27-41	NA	66%	24%	17.4	5%	7%	15%	5
Slope41-94	NA	40%	7%	11.2	5%	6%	9%	27
Day-94	NA	13%	7%	437	6%	10%	43%	28
<b>F1A-P1B</b>								
Slope27-41	NA	26%	6%	32.1	5%	6%	10%	43
Slope41-94	NA	29%	6%	7.67	5%	5%	7%	83
Day-94	NA	13%	8%	335	7%	12%	53%	22
<b>F1B-P1A</b>								
Slope27-41	NA	97%	18%	29.4	5%	5%	8%	7
Slope41-94	NA	87%	27%	8.42	5%	6%	12%	5
Day-94	NA	42%	40%	378	7%	12%	55%	4
<b>F1B-P1B</b>								
Slope27-41	NA	33%	10%	18.7	5%	7%	19%	26
Slope41-94	NA	20%	5%	6.19	5%	5%	8%	272
Day-94	NA	9%	7%	240	8%	18%	83%	63

**P1 Leg Measurements Females**

<b>Variable</b>	<b>Data Transformation</b>	<b>Observed Maximum Percent Difference</b>	<b>Observed Power</b>	<b>Detected Difference at Power = 80%</b>	<b>Power at Delta = 10%</b>	<b>Power at Delta = 20%</b>	<b>Power at Delta = 50%</b>	<b>Sample Size Required to Achieve 80% Power for observed Delta</b>
<b>P1A</b>								
Tibial Length (mm)	ln	2%	23%	0.15	100%	100%	100%	23
Tarsus Length (mm)	ln	2%	30%	0.14	100%	100%	100%	17
Tibial Diameter (mm)	ln	3%	8%	0.20	47%	99%	100%	123
Weight (g)	NA	11%	13%	0.44	11%	37%	100%	43
<b>P1B Females</b>								
Tibial Length (mm)	ln	1%	12%	0.11	100%	100%	100%	63
Tarsus Length (mm)	ln	2%	11%	0.21	100%	100%	100%	49
Tibial Diameter (mm)	ln	3%	12%	0.14	82%	100%	100%	62
Weight (g)	NA	5%	7%	0.41	13%	42%	100%	225



P1 Leg Measurements		Males						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>P1A</b>								
Tibial Length (mm)	ln	1%	27%	0.080	100%	100%	100%	23
Tarsus Length (mm)	ln	1%	16%	0.10	100%	100%	100%	27
Tibial Diameter (mm)	ln	3%	10%	0.16	67%	100%	100%	87
Weight (g)	ln	12%	27%	0.18	20%	70%	100%	23
<b>P1B Females</b>								
Tibial Length (mm)	ln	1%	15%	0.065	100%	100%	100%	43
Tarsus Length (mm)	ln	2%	11%	0.21	100%	100%	100%	49
Tibial Diameter (mm)	ln	4%	20%	0.14	82%	100%	100%	31
Weight (g)	NA	3%	6%	0.29	17%	60%	100%	422

F1 Leg Measurements		Females						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b>								
Tibial Length (mm)	NA	1%	11%	0.15	100%	100%	100%	23
Tarsus Length (mm)	NA	2%	16%	0.14	100%	100%	100%	14
Tibial Diameter (mm)	NA	5%	10%	0.29	25%	80%	100%	30
Weight (g)	NA	11%	31%	0.17	24%	78%	100%	8
<b>F1A-P1B</b>								
Tibial Length (mm)	NA	1%	21%	0.10	100%	100%	100%	16
Tarsus Length (mm)	NA	1%	7%	0.24	99%	100%	100%	86
Tibial Diameter (mm)	NA	3%	7%	0.21	40%	96%	100%	81
Weight (g)	NA	26%	56%	0.25	11%	35%	99%	6
<b>F1B-P1A</b>								
Tibial Length (mm)	NA	2%	14%	0.22	100%	100%	100%	8
Tarsus Length (mm)	NA	3%	11%	0.33	86%	100%	100%	12
Tibial Diameter (mm)	NA	9%	7%	0.70	8%	19%	82%	27
Weight (g)	NA	23%	15%	0.55	7%	12%	55%	8
<b>F1B-P1B</b>								
Tibial Length (mm)	NA	2%	15%	0.19	100%	100%	100%	15
Tarsus Length (mm)	NA	1%	7%	0.27	97%	100%	100%	59
Tibial Diameter (mm)	NA	6%	15%	0.24	33%	91%	100%	15
Weight (g)	NA	17%	43%	0.19	17%	57%	100%	6

F1 Leg Measurements		Males						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b>								
Tibial Length (mm)	NA	2%	28%	0.15	100%	100%	100%	5
Tarsus Length (mm)	NA	3%	23%	0.21	100%	100%	100%	5
Tibial Diameter (mm)	NA	17%	19%	0.63	9%	24%	91%	6
Weight (g)	NA	25%	81%	0.18	19%	62%	100%	2
<b>F1A-P1B</b>								
Tibial Length (mm)	NA	1%	5%	0.35	89%	100%	100%	190
Tarsus Length (mm)	NA	1%	6%	0.23	99%	100%	100%	43
Tibial Diameter (mm)	NA	8%	8%	0.60	9%	22%	88%	25
Weight (g)	NA	11%	9%	0.31	8%	20%	83%	15
<b>F1B-P1A</b>								
Tibial Length (mm)	NA	2%	20%	0.18	100%	100%	100%	6
Tarsus Length (mm)	NA	1%	7%	0.26	97%	100%	100%	32
Tibial Diameter (mm)	NA	16%	34%	0.42	15%	49%	100%	4
Weight (g)	NA	9%	9%	0.28	10%	30%	96%	15
<b>F1B-P1B</b>								
Tibial Length (mm)	NA	1%	12%	0.12	100%	100%	100%	32
Tarsus Length (mm)	NA	1%	8%	0.19	100%	100%	100%	68
Tibial Diameter (mm)	NA	4%	7%	0.30	20%	69%	100%	84
Weight (g)	NA	20%	23%	0.27	9%	23%	93%	14

**F2 Leg Measurements Females**

<b>Variable</b>	<b>Data Transformation</b>	<b>Observed Maximum Percent Difference</b>	<b>Observed Power</b>	<b>Detected Difference at Power = 80%</b>	<b>Power at Delta = 10%</b>	<b>Power at Delta = 20%</b>	<b>Power at Delta = 50%</b>	<b>Sample Size Required to Achieve 80% Power for observed Delta</b>
<b>F1A-P1A</b>								
Tibial Length (mm)	NA	2%	49%	0.11	100%	100%	100%	11
Tarsus Length (mm)	NA	2%	31%	0.13	100%	100%	100%	17
Tibial Diameter (mm)	NA	5%	12%	0.18	40%	96%	100%	48
Weight (g)	NA	24%	48%	0.14	11%	36%	99%	11
<b>F1A-P1B</b>								
Tibial Length (mm)	NA	1%	9%	0.12	100%	100%	100%	213
Tarsus Length (mm)	NA	1%	8%	0.13	100%	100%	100%	314
Tibial Diameter (mm)	NA	3%	9%	0.13	72%	100%	100%	195
Weight (g)	NA	11%	14%	0.12	12%	40%	100%	107
<b>F1B-P1A</b>								
Tibial Length (mm)	NA	4%	10%	0.55	44%	98%	100%	56
Tarsus Length (mm)	NA	2%	11%	0.26	97%	100%	100%	47
Tibial Diameter (mm)	NA	6%	9%	0.29	17%	61%	100%	70
Weight (g)	NA	21%	15%	0.23	7%	14%	71%	29
<b>F1B-P1B</b>								
Tibial Length (mm)	NA	2%	12%	0.20	100%	100%	100%	121
Tarsus Length (mm)	NA	3%	22%	0.20	100%	100%	100%	59
Tibial Diameter (mm)	NA	6%	14%	0.19	36%	95%	100%	100
Weight (g)	NA	29%	54%	0.15	10%	27%	97%	24

F2 Leg Measurements		Males						
Variable	Data Transformation	Observed Maximum Percent Difference	Observed Power	Detected Difference at Power = 80%	Power at Delta = 10%	Power at Delta = 20%	Power at Delta = 50%	Sample Size Required to Achieve 80% Power for observed Delta
<b>F1A-P1A</b>								
Tibial Length (mm)	NA	1%	7%	0.24	100%	100%	100%	111
Tarsus Length (mm)	NA	2%	9%	0.23	99%	100%	100%	63
Tibial Diameter (mm)	NA	5%	9%	0.25	21%	72%	100%	64
Weight (g)	NA	15%	14%	0.17	9%	22%	92%	32
<b>F1A-P1B</b>								
Tibial Length (mm)	NA	1%	13%	0.095	100%	100%	100%	139
Tarsus Length (mm)	NA	1%	9%	0.090	100%	100%	100%	271
Tibial Diameter (mm)	NA	5%	33%	0.10	93%	100%	100%	48
Weight (g)	NA	12%	27%	0.091	19%	66%	100%	58
<b>F1B-P1A</b>								
Tibial Length (mm)	NA	2%	7%	0.42	68%	100%	100%	107
Tarsus Length (mm)	NA	2%	6%	0.44	56%	100%	100%	199
Tibial Diameter (mm)	NA	5%	6%	0.50	8%	21%	91%	221
Weight (g)	NA	16%	10%	0.23	7%	14%	67%	39
<b>F1B-P1B</b>								
Tibial Length (mm)	NA	1%	16%	0.12	100%	100%	100%	75
Tarsus Length (mm)	NA	1%	9%	0.12	100%	100%	100%	173
Tibial Diameter (mm)	NA	6%	18%	0.16	51%	99%	100%	64
Weight (g)	NA	28%	59%	0.13	11%	33%	99%	18