Table 5: Comparison of Abnormal Estrous Cycling
Naïve Controls –vs– Vehicle Controls

Unweighted Cochran-Armitage Test	Estrous Cycling Response	Naïve vs Vehicle		
		Vehicle	Naïve	Naïve Total
Any Abnormal Cycling	Normal	6	8	14
	Abnormal	10	12	22
	Total	16	20	36
	EX P-Value	1.000	1.000	
Extended Estrus	Normal	15	20	35
	Extended	1	0	1
	Total	16	20	36
	EX P-Value	0.441	0.445	
Extended Combined Estrus	Normal	15	20	35
	Extended	1	0	1
	Total	16	20	36
	EX P-Value	0.445	0.439	
Extended Diestrus	Normal	8	8	16
	Extended	8	12	20
	Total	16	20	36
	EX P-Value	0.736	0.738	
Excessive E/D	Normal	14	20	34
	Extended	2	0	2
	Total	16	20	36
	EX P-Value	0.190	0.187	

Table 6: Comparison of Abnormal Estrous Cycling
Low BPA Dose Groups –vs– Vehicle Controls

		Low BPA								
Unweighted Cochran-Armitage Test	Estrous Cycling Response	Vehicle	BPA 2.5	BPA 8.0	BPA 25.0	BPA 80.0	BPA 260	BPA 840	BPA 2700	Low BPA Total
Any Abnormal Cycling	Normal	6	8	7	8	8	6	5	4	52
	Abnormal	10	15	7	13	12	11	15	16	99
	Total	16	23	14	21	20	17	20	20	151
	EX P-Value	0.146	1.000	0.710	1.000	1.000	1.000	0.487	0.282	
Extended Estrus	Normal	15	23	14	21	18	17	19	19	146
	Extended	1	0	0	0	2	0	1	1	5
	Total	16	23	14	21	20	17	20	20	151
	EX P-Value	0.567	0.415	1.000	0.430	1.000	0.482	1.000	1.000	
Extended Combined Estrus	Normal	15	23	14	21	19	17	19	19	147
	Extended	1	0	0	0	1	0	1	1	4
	Total	16	23	14	21	20	17	20	20	151
	EX P-Value	0.587	0.407	1.000	0.435	1.000	0.490	1.000	1.000	
Extended Diestrus	Normal	8	8	7	8	10	6	5	6	58
	Extended	8	15	7	13	10	11	15	14	93
	Total	16	23	14	21	20	17	20	20	151
	EX P-Value	0.167	0.506	1.000	0.514	1.000	0.493	0.167	0.312	
Excessive E/D	Normal	14	23	14	21	19	17	19	19	146
	Extended	2	0	0	0	1	0	1	1	5
	Total	16	23	14	21	20	17	20	20	151
	EX P-Value	0.924	0.159	0.485	0.181	0.577	0.230	0.582	0.575	

Table 7: Comparison of Abnormal Estrous Cycling
High BPA Dose Groups –vs– Vehicle Controls

Unweighted Cochran-Armitage Test	Estrous Cycling Response	High BPA			
		Vehicle	BPA 100K	BPA 300K	High BPA Total
Any Abnormal Cycling	Normal	6	0	0	6
	Abnormal	10	14	7	31
	Total	16	14	7	37
	EX P-Value	0.005 **	0.018 *	0.123	
Extended Estrus	Normal	15	12	6	33
	Extended	1	2	1	4
	Total	16	14	7	37
	EX P-Value	0.728	0.578	1.000	
Extended Combined Estrus	Normal	15	12	7	34
	Extended	1	2	0	3
	Total	16	14	7	37
	EX P-Value	1.000	0.583	1.000	
Extended Diestrus	Normal	8	2	2	12
	Extended	8	12	5	25
	Total	16	14	7	37
	EX P-Value	0.179	0.056	0.410	
Excessive E/D	Normal	14	9	4	27
	Extended	2	5	3	10
	Total	16	14	7	37
	EX P-Value	0.148	0.203	0.275	

Table 8: Comparison of Abnormal Estrous Cycling
Ethinyl Estradiol Dose Groups –vs– Vehicle Controls

Unweighted Cochran-Armitage Test	Estrous Cycling Response	Ethinyl Estradiol			
		Vehicle	EE 0.5	EE 5.0	EE Total
Any Abnormal Cycling	Normal	6	0	0	6
	Abnormal	10	13	10	33
	Total	16	13	10	39
	EX P-Value	0.003 **	0.021 *	0.057	
Extended Estrus	Normal	15	9	6	30
	Extended	1	4	4	9
	Total	16	13	10	39
	EX P-Value	0.059	0.143	0.051	
Extended Combined Estrus	Normal	15	10	7	32
	Extended	1	3	3	7
	Total	16	13	10	39
	EX P-Value	0.133	0.295	0.272	
Extended Diestrus	Normal	8	8	4	20
	Extended	8	5	6	19
	Total	16	13	10	39
	EX P-Value	0.848	0.700	0.697	
Excessive E/D	Normal	14	2	2	18
	Extended	2	11	8	21
	Total	16	13	10	39
	EX P-Value	<.001 ***	<.001 ***	0.001 **	

Table 9: Comparison of Abnormal Estrous Cycling
Naïve Controls –vs– Vehicle Controls
(Alternate Definition of Extended Diestrus: >4 consecutive days)

		Naïve vs Vehicle		
Unweighted Cochran-Armitage Test	Estrous Cycling Response	Vehicle	Naïve	Naïve Total
Any Abnormal Cycling	Normal	9	14	23
	Abnormal	7	6	13
	Total	16	20	36
	EX P-Value	0.495	0.489	
Extended Estrus	Normal	15	20	35
	Extended	1	0	1
	Total	16	20	36
	EX P-Value	0.450	0.440	
Extended Combined Estrus	Normal	15	20	35
	Extended	1	0	1
	Total	16	20	36
	EX P-Value	0.441	0.436	
Extended Diestrus	Normal	11	14	25
	Extended	5	6	11
	Total	16	20	36
	EX P-Value	1.000	1.000	
Excessive E/D	Normal	14	20	34
	Extended	2	0	2
	Total	16	20	36
	EX P-Value	0.189	0.195	

Table 10: Comparison of Abnormal Estrous Cycling
Low BPA Dose Groups –vs– Vehicle Controls
(Alternate Definition of Extended Diestrus: >4 consecutive days)

		Low BPA								
Unweighted Cochran-Armitage Test	Estrous Cycling Response	Vehicle	BPA 2.5	BPA 8.0	BPA 25.0	BPA 80.0	BPA 260	BPA 840	BPA 2700	Low BPA Total
Any Abnormal Cycling	Normal	9	10	8	14	11	8	12	11	83
	Abnormal	7	13	6	7	9	9	8	9	68
	Total	16	23	14	21	20	17	20	20	151
	EX P-Value	0.747	0.530	1.000	0.734	1.000	0.732	1.000	1.000	
Extended Estrus	Normal	15	23	14	21	18	17	19	19	146
	Extended	1	0	0	0	2	0	1	1	5
	Total	16	23	14	21	20	17	20	20	151
	EX P-Value	0.569	0.409	1.000	0.434	1.000	0.486	1.000	1.000	
Extended Combined Estrus	Normal	15	23	14	21	19	17	19	19	147
	Extended	1	0	0	0	1	0	1	1	4
	Total	16	23	14	21	20	17	20	20	151
	EX P-Value	0.593	0.420	1.000	0.434	1.000	0.484	1.000	1.000	
Extended Diestrus	Normal	11	10	8	14	13	8	13	13	90
	Extended	5	13	6	7	7	9	7	7	61
	Total	16	23	14	21	20	17	20	20	151
	EX P-Value	0.585	0.196	0.705	1.000	1.000	0.296	1.000	1.000	
Excessive E/D	Normal	14	23	14	21	19	17	19	19	146
	Extended	2	0	0	0	1	0	1	1	5
	Total	16	23	14	21	20	17	20	20	151
	EX P-Value	0.926	0.152	0.483	0.177	0.572	0.222	0.575	0.570	

Table 11: Comparison of Abnormal Estrous Cycling
High BPA Dose Groups –vs– Vehicle Controls
(Alternate Definition of Extended Diestrus: >4 consecutive days)

		High BPA			
Unweighted Cochran-Armitage Test	Estrous Cycling Response	Vehicle	BPA 100K	BPA 300K	High BPA Total
Any Abnormal Cycling	Normal	9	3	0	12
	Abnormal	7	11	7	25
	Total	16	14	7	37
	EX P-Value	0.004 **	0.074	0.020 *	
Extended Estrus	Normal	15	12	6	33
	Extended	1	2	1	4
	Total	16	14	7	37
	EX P-Value	0.739	0.594	1.000	
Extended Combined Estrus	Normal	15	12	7	34
	Extended	1	2	0	3
	Total	16	14	7	37
	EX P-Value	1.000	0.592	1.000	
Extended Diestrus	Normal	11	5	2	18
	Extended	5	9	5	19
	Total	16	14	7	37
	EX P-Value	0.056	0.140	0.167	
Excessive E/D	Normal	14	9	4	27
	Extended	2	5	3	10
	Total	16	14	7	37
	EX P-Value	0.144	0.208	0.271	

Table 12: Comparison of Abnormal Estrous Cycling
Ethinyl Estradiol Dose Groups –vs– Vehicle Controls
(Alternate Definition of Extended Diestrus: >4 consecutive days)

		Ethinyl Estradiol			
Unweighted Cochran-Armitage Test	Estrous Cycling Response	Vehicle	EE 0.5	EE 5.0	EE Total
Any Abnormal Cycling	Normal	9	0	0	9
	Abnormal	7	13	10	30
	Total	16	13	10	39
	EX P-Value	<.001 ***	0.001 **	0.010 **	
Extended Estrus	Normal	15	9	6	30
	Extended	1	4	4	9
	Total	16	13	10	39
	EX P-Value	0.060	0.146	0.056	
Extended Combined Estrus	Normal	15	10	7	32
	Extended	1	3	3	7
	Total	16	13	10	39
	EX P-Value	0.130	0.299	0.261	
Extended Diestrus	Normal	11	10	6	27
	Extended	5	3	4	12
	Total	16	13	10	39
	EX P-Value	0.828	0.705	0.698	
Excessive E/D	Normal	14	2	2	18
	Extended	2	11	8	21
	Total	16	13	10	39
	EX P-Value	<.001 ***	<.001 ***	<.001 ***	