

		10-Day		48-Hour		Walk-Away	
		<i>Value</i>	<i>sd</i>	<i>Value</i>	<i>sd</i>	<i>Value</i>	<i>sd</i>
<i>Morphological Measurements</i>	Weight (mg)	200.82	21.09	193.04	10.42	201.29	27.63
	Head Width (mm)	3.76	0.07	3.74	0.12	3.75	0.10
	Thorax Width (mm)	4.86	0.13	4.77	0.15	4.80	0.21
<i>Insemination Measurements</i>	Total Sperm Count (100k sperm)	57.89	16.45	56.08	9.66	60.58	18.93
	Viable Sperm Count (100k sperm)	47.29	14.79	44.45	8.79	49.34	18.37
	Spermatheca Diameter (mm)	1.22	0.06	1.20	0.06	1.22	0.05
	Percent Viable Sperm	0.80	0.07	0.78	0.08	0.80	0.09
	Spermatheca Percent Filled	0.59	0.17	0.60	0.08	0.61	0.16
<i>Summary Metrics</i>	Morphological Grade	0.89	0.12	0.85	0.09	0.86	0.15
	Insemination Grade	0.59	0.17	0.60	0.08	0.61	0.16
	Overall Grade	0.68	0.10	0.66	0.08	0.68	0.12

Table 2. Average queen measurements per treatment. 51 queens were analyzed by the Tarpy lab (6 per treatment in round one; 11 per treatment in round two).