

**Table 1. Numbers of Gilts from 60 to 230 Days of Age**

		Outcome, Day 0 to Final Test Date						Culled, Not Breeders				
Line <sup>a</sup>	Trt <sup>b</sup>	N60 days	NDied, 60-123 days	N123 days	NDied/FL/Rupt, 123 to 226 <sup>dc</sup>	N226 days	NAP <sup>d</sup>	NNo AP	NAP-late <sup>e</sup>	NDied/FL/Rupt <sup>f</sup>	NRandom <sup>g</sup>	No Breeders
LW x LR	A	177	1	176	2	174	159	15	3	6	11	139
LW x LR	R	178	3	175	4	171	133	38	4	2	4	123
L45X	A	153	3	150	3	147	143	4	3	1	10	129
L45X	R	153	2	151	4	147	133	14	5	2	8	118
<b>Total</b>		<b>661</b>	<b>9</b>	<b>652</b>	<b>13</b>	<b>639</b>	<b>568</b>	<b>71</b>	<b>15</b>	<b>11</b>	<b>33</b>	<b>509</b>

<sup>a</sup>LW x LR = Large White x Landrace cross females, L45X = Line 45 cross females

<sup>b</sup>A = ad libitum access to feed to breeding age (230 days), R = energy restriction (75% of A) from 123 to 230 days of age

<sup>c</sup>Number that died or were removed from test for foot & leg problems or were ruptured

<sup>d</sup>Number that achieved and expressed pubertal estrus (AP)

<sup>e</sup>Number that expressed pubertal estrus late in the development period, but were culled because they could not be mated at 2nd post-pubertal estrus

<sup>f</sup>Number completing development period and died, ruptured or were culled for foot/leg problems

<sup>g</sup>Number that were culled randomly to reduce numbers to available breeding/farrowing spaces

**Table 2. Weight, Backfat and Longissimus Muscle Area at 226 Days of Age and Age at Puberty<sup>ab</sup>**

	Weight, lb.	Backfat, in.	Longissimus Area, sq. in.	Age at Puberty, days
Item	Mean	Mean	Mean	Mean
LW x LR	282.4	0.91	6.29	178.6
L45X	273.6	0.96	6.08	173.0
A	302.7	1.13	6.60	174.1
R	253.5	0.74	5.78	177.5

<sup>a</sup>LW x LR = Large White x Landrace cross females, L45X = Line 45 cross females.

<sup>b</sup>A = ad libitum access to feed to breeding age (230 days), R = energy restriction (75% of A) from 123 to 230 days of age.

**Table 3. Number of Gilts that Produced Litters at Each Parity and Numbers Removed for Reproductive Failure, Death or Unsoundness<sup>a</sup>**

Line	Trt	Brds	No. lits	Mated open	Cull no est.	Died gest	Cull FL/Inj	Died far	Brds	No. lits	Mated open	Cull no est.	Died gest	Cull FL/Inj	Died far
		Parity 1							Parity 2						
LWxLR	A	139	107	22	8	2	0	4	103	63	16	17	7	0	0
LWxLR	R	123	97	16	5	2	3	1	96	65	16	14	1	0	1
L45X	A	129	112	15	1	1	0	1	111	63	24	24	1	0	1
L45X	R	118	96	13	4	4	1	0	96	65	15	10	5	1	0
<b>Total</b>		<b>509</b>	<b>412</b>	<b>66</b>	<b>18</b>	<b>9</b>	<b>4</b>	<b>6</b>	<b>407</b>	<b>256</b>	<b>71</b>	<b>65</b>	<b>14</b>	<b>1</b>	<b>2</b>
		Parity 3							Parity 4						
LWxLR	A	63	53	8	2	0	0	0	54	41	12	1	0	0	0
LWxLR	R	64	51	10	2	1	0	0	51	41	8	1	1	0	0
L45X	A	62	51	6	4	0	1	0	51	44	7	0	0	0	0
L45X	R	65	56	5	3	1	0	1	55	44	7	3	1	0	0
<b>Total</b>		<b>254</b>	<b>211</b>	<b>29</b>	<b>11</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>211</b>	<b>170</b>	<b>34</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>

<sup>a</sup>Brds = Number of females designated as breeders; No. lits = number of litters; Mated open = number mated but culled because they were diagnosed as not pregnant; Cull No est = number that were culled because they did not express estrus during the breeding period; Died gest = number died during gestation; Cull FL/Inj = number culled for foot and leg or other soundness condition; Died Far = number that died during farrowing.

A = ad libitum access to feed to breeding age (230 days); R = energy restriction (75% of A) from 123 to 230 days of age.

**Table 4. Probability of Reproductive Success, by Parity**

	Pr Pub Estrus <sup>a</sup>	Pr P1 Litter <sup>b</sup>	Pr P2 Litter <sup>b</sup>	Pr P3 Litter <sup>b</sup>	Pr P4 Litter <sup>b</sup>
Item	Mean	Mean	Mean	Mean	Mean
<b>Line means</b>					
LW X LR	0.88	0.78	0.49	0.40	0.31
L45X	0.95	0.84	0.52	0.43	0.34
<b>Treatment means</b>					
A	0.96	0.83	0.47	0.38	0.31
R	0.86	0.80	0.54	0.44	0.34

<sup>a</sup>Probability that gilts that completed the development period expressed pubertal estrus by 225 days of age  
<sup>b</sup>Probability that gilts identified as breeders produced Parity 1, 2, 3 and 4 litters  
A = ad libitum access to feed to breeding age (230 days); R = energy restriction (75% of A) from 123 to 230 days of age

**Table 5. Mean Number of Live Pigs, Number Weaned and Litter Weaning Weight for Females with Litters, per Female with Litter and Lifetime Productivity per Gilt Designated for Breeding**

			Number of live pigs	Number weaned	Litter weaning weight, lb.
Line <sup>a</sup>	Trt <sup>b</sup>	Parity	Mean	Mean	Mean
LW X LR			11.73	10.01	121.7
L45X			12.13	9.76	116.2
	A		11.90	9.82	117.5
	R		11.96	9.95	120.3
		1	11.74	10.08	111.1
		2	11.53	10.20	127.2
		3	12.20	9.95	123.0
		4	12.24	9.32	114.2
<b>Lifetime production per gilt designated for breeding</b>					
LW X LR			23.37	19.48	233.6
L45X			26.05	21.12	248.4
	A		23.83	19.60	232.0
	R		25.59	21.00	250.4

<sup>a</sup>LW x LR = Large White x Landrace cross females; L45X = Line 45 cross females  
<sup>b</sup>A = ad libitum access to feed to breeding age (230 d); R = energy restriction (75% of A) from 123 to 230 days of age