

## 2013 PROGENY TEST

SIRE SUMMARY

A word about the 2013 NBS® Progeny Test...

The NATIONAL BARROW SHOW® Sire Progeny Test remains the most extensive unbiased evaluation of progeny performance available to purebred swine breeders. Currently, twelve different measures of progeny performance are recorded on every pig that completes the testing period. These include evaluations of carcass composition, growth performance, meat quality, and eating quality. These data are compiled and returned to participating breeders for use within their individual breeding or marketing program. However, with the extensive amount of data that is evaluated, an effective method is needed to summarize the progeny performance of a particular sire that appropriately utilizes the data available. Changes within the industry have lead to different production and marketing schemes utilized by purebred breeding herds, which complicates the application of a single figure or index that fits the goals of all participating firms. In general, the production goals employed by purebred breeders who utilize the NBS® Progeny Test can be characterized as either: A) mainstream pork production aimed at efficient production of lean product; or B) production aimed at enhanced eating quality.

Mainstream pork production requires a sufficient emphasis on eating quality to secure a consistent market outlet for processors. Conversely, eating quality-based production systems also must maintain a sufficient level of lean growth to remain profitable in the long-term. In keeping with the 2011 analysis, this year's test will evaluate the progeny performance of a sire based on the two production systems described above and recognize sires that excel in either or both of the production and marketing structures. Specifically, sires that excel in mainstream pork production traits will be recognized with "SUPER SIRE" Awards while sires that excel in eating quality-based traits will receive "PORQUE" Awards (PORk QUality Excellence).

### Overall objectives used for sire rankings

Sires are now ranked according to two primary objectives that place different levels of emphasis on progeny performance accordingly: 1) Lean gain per day on test; and 2) Consumer acceptance. Lean gain per day on test (LGOT) is easily calculated by the methods outlined in the Pork Composition and Quality Assessment Procedures manual published by the National Pork Producers Council. The calculation of consumer acceptance (CA) uses nine different meat and eating quality traits measured in the progeny test. The calculation of CA involved a consensus of the impact that each trait has on overall consumer preference. Using this information the following criteria are now used to determine superior sires in the Progeny Test:

SUPER SIRE<sup>TM</sup> Index: Used to reflect mainstream pork production where 90% of the weight is given to components of lean gain and 10% of the weight is assigned to characters that influence consumer acceptance.

**PORQUE** Index: Used to reflect a production and marketing system where primary emphasis is based on meat quality traits with a sufficient level of lean growth. This objective places 10% of the weight on components of lean growth, while 90% of the weight is given to characters that influence consumer acceptance.

Relative contribution of singular measured traits within each component group described above:

Lean Gain Factor	Lean Gain Factor					
Ave Daily Gain	57%					
10 <sup>th</sup> Rib Bkft	34%					
Loin Eye Area	6%					
All Other Traits	3%					

Consumer Acceptance	e Factor
pН	43%
Intron Tenderness	30%
Intramuscular Fat	10%
Sensory Panel	10%
All Other Traits	7%

(i.e., ADG comprises 57% of the weighting in "Lean Gain". The entire collection of traits in "Lean Gain" is then in turn weighted at 90% of the value of the *SUPER SIRE™* Index or 10% value of the *PORQUE* Index.)

All variables are adjusted for gender and contemporary group (defined as off-test group). Carcass composition traits such as loin eye area and backfat are adjusted to 250 lbs, while average daily gain is adjusted to 80lbs on-test weight. The contemporary group effect, included in the evaluation of meat and eating quality traits, assists in alleviating the vast differences that exist in harvest day environment as well as the differences in people used in the sensory taste panels.

Similar to previous years, two different soundness scores (1-5) are assigned to each pig separately for front and rear leg structure/movement. Individual pigs that have a score of less than 1.5 on either front or rear are disqualified. In order for a sire to be eligible for either *SUPER SIRE™* or *PORQUE* recognition, the sire average must include six pigs that completed the testing period eligible for market and were not disqualified for soundness. Entries that do not meet this requirement will not be published. The top 20% of the sires in each breed and the entire test will be awarded.

If you have any questions regarding the Progeny Test in general, please contact Amanda Tiedemann at 507-437-5306 or aktiedemann@hormel.com.

### **2013 NBS® Progeny Test SUPER SIRE™ Ranking**

Traits adjusted for sex, off-test date & weight, and/or on-test weight.

<u>SUPER SIRE™ Awards are listed in BOLD.</u> SUPER SIRE™ Index represents 90% weight on Lean Growth measures and 10% weight on Eating Quality measures.

		BREED = BERKSHIRE				Leg	PORQUE	SUPER SIRE™
Group	Breeder	Sire	ADG	BF10	LMA	Sound.	Rank	INDEX
221	Seybold's Berkshires	WKF1 BIG TEX 3-2	1.85	0.84	6.08	6.6	2	106.7
101	<b>Tuthill Family Farms</b>	TUT0 PSSS WILLY WONKA 65-1	1.79	0.83	6.66	6.9	13	102.1
237	Fly'n K Berkshires	NF2 HOSTILE TAKEOVER 21-1	1.78	1.01	6.21	5.9	1	101.4
229	Fly'n K Berkshires	JSK0 TORGE 3-5	1.75	0.98	6.20	6.2	9	97.2
285	AJC Berkshires	AJC1 LOOSE CHANGE 11-1	1.59	0.95	6.15	6.4	3	96.6
253	England's Berkshires	EB1 KRUGER 12-3	1.67	1.03	5.27	6.1	5	95.9
261	Fly'n K Berkshires	GNK1 WALTER 14-6	1.46	0.91	6.40	6.1	4	93.5
213	Phenotypics Acres, Inc.	PA2 GOLD MEDAL 1-8	1.59	0.91	6.32	5.0	10	93.3
397	Lyle & Darla Wipplinger	WIPP1 NST 12-1	1.43	0.97	6.35	5.3	6	91.5
429	Oak Hill Farm	20HF8 STONEHENGE 79-1	1.64	1.06	5.67	6.1	15	89.8
389	Kurobuta Bertshire LLC	KURO1 SAKI 25-2	1.60	0.92	5.87	5.6	17	89.1
437	Oak Hill Farm	OHF7 STRETCH 94-3	1.54	0.78	6.37	5.7	18	87.3
445	Oak Hill Farm	OHF0 S MASTERBOY 63-2	1.66	1.31	5.33	5.9	14	82.4
245	Phenotypics Acres, Inc. & Watts Quality Pork	PA9 HULK 23-8	1.61	1.34	4.90	5.9	8	82.3
421	Oak Hill Farm	20HF9 CORNERSTONE 101-1	1.62	1.39	4.55	5.8	11	80.3
453	Oak Hill Farm	OHF6 BIG FOOT 52-1	1.41	1.14	5.32	5.4	16	78.8
405	Lyle & Darla Wipplinger	WIPP1 ASLAN 4-1	1.47	1.27	5.02	5.9	12	78.3
381	Kurobuta Bertshire LLC	KURO1 PARRACOMBE PETER LAD 14 233-6	1.60	1.56	4.19	5.8	7	76.7
		BERKSHIRE Average	1.62	1.07	5.73	5.8		90.8

		BREED = CHESTER WHITE				Leg	PORQUE	SUPER SIRE™
Group	Breeder	Sire	ADG	BF10	LMA	Sound.	Rank	INDEX
413	Randy and Becky Schmidt	RS1 LIVE WIRE 62-3	1.67	0.96	6.63	7.5	2	94.1
293	Brown Farms	DMV1 BODY SHOP 9-2	1.70	1.26	6.60	7.4	1	93.1
		CHESTER WHITE Average	1.68	1.11	6.61	7.5		93.6

2013 NBS® Progeny Test SUPER SIRE™ Ranking

Traits adjusted for sex, off-test date & weight, and/or on-test weight.

SUPER SIRE™ Awards are listed in BOLD.

SUPER SIRE™ Index represents 90% weight on Lean Growth measures and 10% weight on Eating Quality measures.

		BREED = DUROC				Leg	PORQUE	SUPER SIRE™
Group	Breeder	Sire	ADG	BF10	LMA	Sound.	Rank	INDEX
125	Whiteshire Hamroc	HP1 HP ALL STAR 17-8	2.23	0.74	7.42	7.4	10	116.0
317	Waldo Farms	WFD1 RED LEGEND 171-3	2.08	0.75	7.00	6.9	5	112.1
149	Whiteshire Hamroc	WHIH2 S TOP DRAWER 218-8	2.09	0.89	7.12	6.1	8	109.3
325	Waldo Farms	WFDM1 BLARNEY 217-1	1.84	0.65	7.40	6.7	3	109.1
277	Comparts Boar Store	CBSW1 S TWIRL 68-1	1.93	0.84	7.14	7.2	2	108.9
341	Waldo Farms	WFD1 CRIMSON 116-2	1.77	0.67	8.20	6.6	7	107.5
181	Forkner Farms   TRULINE® Genetics	CC1 LUCK 6-6	1.84	0.95	6.53	6.9	1	103.9
333	Waldo Farms	WFD1 EQUINOX 78-1	1.74	0.73	7.72	6.9	9	102.8
165	Whiteshire Hamroc	WHIH0 GRUS CORNHUSKER 455-6	1.73	0.90	7.26	7.9	4	99.3
197	Forkner Farms   TRULINE® Genetics	CC1 FUNCTION 32-10	1.57	0.76	6.69	6.9	6	95.1
		DUROC Average	1.88	0.80	7.23	6.9		106.5

		BREED = LANDRACE				Leg	PORQUE	SUPER SIRE™
Group	Breeder	Sire	ADG	BF10	LMA	Sound.	Rank	INDEX
349	Waldo Farms	WFDM2 PRIME BLAST 175-2	1.86	0.91	6.68	6.8	2	98.13
173	Forkner Farms   TRULINE® Genetics	CCI DEALER 24-7	1.79	0.81	6.72	6.1	1	98.07
373	Waldo Farms	WFDM1 TRUE GRIT 346-3	1.79	0.78	7.05	6.5	3	97.5
157	Whiteshire Hamroc	WHIH1 SAMSON 273-6	1.70	0.83	6.80	6.5	4	94.6
		LANDRACE Average	1.79	0.83	6.81	6.5		97.1

2013 NBS® Progeny Test SUPER SIRE™ Ranking

Traits adjusted for sex, off-test date & weight, and/or on-test weight.

SUPER SIRE™ Awards are listed in BOLD.

SUPER SIRE™ Index represents 90% weight on Lean Growth measures and 10% weight on Eating Quality measures.

		BREED = YORKSHIRE				Leg	PORQUE	SUPER SIRE™
Group	Breeder	Sire	ADG	BF10	LMA	Sound.	Rank	INDEX
357	Waldo Farms	WFDM1 CHIP 273-3	2.07	0.78	7.09	7.3	2	111.7
301	Waldo Farms	WFDM1 PERFECTION 104-5	1.87	0.58	7.23	6.8	4	107.4
141	Whiteshire Hamroc	WHI1 GOLIATH 277-10	1.89	0.96	6.40	6.4	1	100.5
189	Forkner Farms   TRULINE® Genetics	CC7 MASTERBOY 139-1	1.95	0.95	6.32	6.8	5	98.2
133	Whiteshire Hamroc	WHIH1 DEL RIO 299-13	1.89	0.99	6.12	6.9	3	97.9
365	Waldo Farms	WFD1 PROMISE 228-2	1.62	0.71	7.16	7.0	6	94.6
		YORKSHIRE Average	1.88	0.83	6.72	6.9		101.7

		BREED = CROSSBRED				Leg	PORQUE	SUPER SIRE™
Group	Breeder	Sire	ADG	BF10	LMA	Sound.	Rank	INDEX
309	Waldo Farms	K-RED 7-3	2.03	0.70	7.85	8.1	3	114.4
117	Temple Genetics	ALEX 68-4	2.07	0.96	6.24	6.8	2	106.8
109	Temple Genetics	ALEX 19-13	1.95	1.13	5.33	6.2	1	97.1
		CROSSBRED Average	2.02	0.93	6.47	7.0		106.1

	ADG	BF10	LMA	Leg Sound.	SUPER SIRE™ INDEX
ENTIRE TEST AVERAGE	1.76	0.94	6.42	6.4	97.8

2013 NBS® Progeny Test PORQUE Ranking

Traits adjusted for sex & off-test date.

PORQUE™ Awards are listed in BOLD. PORQUE Index represents 10% weight on Lean Growth measures and 90% weight on Eating Quality measures.

	BREED = BERKSHIRE			Instron		Senso	ory Panel		PORQUE
Group	Breeder	Sire	рН	Tender	% IM Fat	Juic	Tender	SS Rank	INDEX
237	Fly'n K Berkshires	NF2 HOSTILE TAKEOVER 21-1	5.83	4.28	2.49	8.17	8.38	3	103.3
221	Seybold's Berkshires	WKF1 BIG TEX 3-2	5.93	4.24	2.53	7.18	8.79	1	102.7
285	AJC Berkshires	AJC1 LOOSE CHANGE 11-1	6.03	4.51	1.92	8.34	9.11	5	102.6
261	Fly'n K Berkshires	GNK1 WALTER 14-6	5.90	4.43	1.62	8.07	8.35	7	102.2
253	England's Berkshires	EB1 KRUGER 12-3	5.90	4.60	2.45	7.81	7.92	6	101.9
397	Lyle & Darla Wipplinger	WIPP1 NST 12-1	5.73	4.72	1.83	7.73	7.40	9	101.2
381	Kurobuta Bertshire LLC	KURO1 PARRACOMBE PETER LAD 14 233-6	5.76	4.75	3.92	7.72	8.08	18	100.7
245	Phenotypics Acres, Inc. & Watts Quality Pork	PA9 HULK 23-8	5.67	4.63	3.44	7.52	7.87	14	99.4
229	Fly'n K Berkshires	JSK0 TORGE 3-5	5.78	4.71	2.43	7.38	8.34	4	99.1
213	Phenotypics Acres, Inc.	PA2 GOLD MEDAL 1-8	5.76	4.78	2.32	7.50	7.91	8	98.7
421	Oak Hill Farm	20HF9 CORNERSTONE 101-1	5.70	4.85	2.88	7.52	7.24	15	98.7
405	Lyle & Darla Wipplinger	WIPP1 ASLAN 4-1	5.81	4.86	1.97	7.62	7.59	17	98.6
101	Tuthill Family Farms	TUT0 PSSS WILLY WONKA 65-1	5.66	4.66	2.25	7.57	7.68	2	98.4
445	Oak Hill Farm	OHF0 S MASTERBOY 63-2	5.81	5.16	1.99	7.90	7.20	13	97.1
429	Oak Hill Farm	20HF8 STONEHENGE 79-1	5.69	5.00	2.48	7.59	6.58	10	97.1
453	Oak Hill Farm	OHF6 BIG FOOT 52-1	5.57	4.77	2.18	7.42	7.42	16	96.4
389	Kurobuta Bertshire LLC	KURO1 SAKI 25-2	5.76	5.14	1.87	7.42	7.59	11	96.1
437	Oak Hill Farm	OHF7 STRETCH 94-3	5.66	5.51	1.53	7.60	7.20	12	94.0
		BERKSHIRE Average	5.78	4.73	2.36	7.70	7.90		99.5

1		BREED = CHESTER WHITE					Senso	ry Panel		1 1
	Group	Breeder	Sire	рН	Instron Tender	% IM Fat	Juic	Tender	SS Rank	PORQUE   INDEX
	293	Brown Farms	DMV1 BODY SHOP 9-2	5.79	4.45	2.72	7.58	7.71	2	100.3
	413	Randy and Becky Schmidt	RS1 LIVE WIRE 62-3	5.73	4.97	2.58	7.20	7.23	1	97.1
1			CHESTER WHITE Average	5.76	4.71	2.65	7.39	7.47		98.7

2013 NBS® Progeny Test PORQUE Ranking

Traits adjusted for sex & off-test date.

PORQUE™ Awards are listed in BOLD. PORQUE Index represents 10% weight on Lean Growth measures and 90% weight on Eating Quality measures.

 	BREED = DUROC			lu atua :-		Sensory Panel			POPOLIE
Group	Breeder	Sire	рН	Instron Tender	% IM Fat	Juic	Tender	SS Rank	PORQUE INDEX
181	Forkner Farms   TRULINE® Genetics	CC1 LUCK 6-6	5.79	4.65	3.09	7.77	7.88	7	101.1
277	<b>Comparts Boar Store</b>	CBSW1 S TWIRL 68-1	5.74	4.89	3.99	7.15	7.53	5	99.1
325	Waldo Farms	WFDM1 BLARNEY 217-1	5.92	5.16	2.37	7.11	7.65	4	97.8
165	Whiteshire Hamroc	WHIH0 GRUS CORNHUSKER 455-6	5.68	5.00	2.79	7.20	6.63	9	97.0
317	Waldo Farms	WFD1 RED LEGEND 171-3	5.70	5.07	2.51	7.23	8.03	2	96.8
197	Forkner Farms   TRULINE® Genetics	CC1 FUNCTION 32-10	5.77	5.07	2.63	7.15	7.12	10	96.7
341	Waldo Farms	WFD1 CRIMSON 116-2	5.86	5.28	1.93	7.24	6.93	6	96.5
149	Whiteshire Hamroc	WHIH2 S TOP DRAWER 218-8	5.75	5.38	3.25	6.56	7.38	3	95.8
333	Waldo Farms	WFD1 EQUINOX 78-1	5.83	5.40	2.33	6.92	7.05	8	95.6
125	Whiteshire Hamroc	HP1 HP ALL STAR 17-8	5.74	5.51	3.09	6.89	7.60	1	94.9
		DUROC Average	5.78	5.16	287	7.14	7.37		97.1

BREED = LANDRACE			Sensory Panel						1 1
Group	Breeder	Sire	рН	Instron Tender	% IM Fat	Juic	Tender	SS Rank	PORQUE   INDEX
173	Forkner Farms   TRULINE® Genetics	CCI DEALER 24-7	5.60	5.21	2.07	6.43	7.53	2	93.6
349	Waldo Farms	WFDM2 PRIME BLAST 175-2	5.52	5.34	2.19	6.67	6.44	1	92.5
373	Waldo Farms	WFDM1 TRUE GRIT 346-3	5.62	5.07	1.52	6.95	6.54	3	92.3
157	Whiteshire Hamroc	WHIH1 SAMSON 273-6	5.57	5.40	1.66	7.04	6.21	4	90.2
 		LANDRACE Average	5.58	5.26	1.86	6.77	6.68		92.1

2013 NBS® Progeny Test PORQUE Ranking

Traits adjusted for sex & off-test date.

PORQUE™ Awards are listed in BOLD. PORQUE Index represents 10% weight on Lean Growth measures and 90% weight on Eating Quality measures.

BREED = YORKSHIRE		Sensory Panel						PORQUE	
Group	Breeder	Sire	рН	Instron Tender	% IM Fat	Juic	Tender	SS Rank	INDEX
141	Whiteshire Hamroc	WHI1 GOLIATH 277-10	5.72	4.79	2.12	7.24	7.84	3	97.3
357	Waldo Farms	WFDM1 CHIP 273-3	5.83	4.82	1.91	7.35	8.38	1	97.0
133	Whiteshire Hamroc	WHIH1 DEL RIO 299-13	5.77	5.09	2.18	7.22	7.61	5	96.1
301	Waldo Farms	WFDM1 PERFECTION 104-5	5.59	4.87	1.91	6.75	7.07	2	94.7
189	Forkner Farms   TRULINE® Genetics	CC7 MASTERBOY 139-1	5.66	5.24	1.98	6.84	8.00	4	93.1
365	Waldo Farms	WFD1 PROMISE 228-2	5.56	5.41	2.00	7.28	6.53	6	92.1
!		YORKSHIRE Average	5.69	5.04	2.02	7.11	7.57		95.1

BREED = CROSSBRED			Sensory Panel						 
Group	Breeder	Sire	рН	Instron Tender	% IM Fat	Juic	Tender	SS Rank	PORQUE INDEX
109	Temple Genetics	ALEX 19-13	5.65	4.33	2.67	6.93	8.14	3	98.5
117	Temple Genetics	ALEX 68-4	5.52	4.26	3.20	6.95	7.74	2	97.5
309	Waldo Farms	K-RED 7-3	5.75	4.83	1.90	7.41	8.04	1	96.9
		CROSSBRED Average	5.64	4.47	2.59	7.10	7.97		97.6

	Sensory Panel						
	Instron			PORQUE			
	рН	Tender	% IM Fat	Juic	Tender	INDEX	
ENTIRE TEST AVERAGE	5.74	4.91	2.42	7.35	7.60	97.5	

# The 2014 NBS® Progeny Test delivery date is set for FRIDAY, MARCH 21<sup>st</sup>. Plan your matings NOW!

Please THANK the following sponsors for underwriting costs and professionally assisting with the NATIONAL BARROW SHOW® Sire Progeny Test. Without the tremendous support of these entities, the Progeny Test would not be possible.



## IOWA STATE UNIVERSITY









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