









Duroc - Top Sires Ranked on Tern	s for T ninal	rsı Inde	ex (T	SI)	Jul	y 2004	
Name Owner H	Pigs lerds	BF acc	Days acc	Lbs.	TSI	Reg. No.	
ZMAC2 KOBE 55-1 ZIERKE FARMS/ZMAC	20 - 1	0.03	-5.34	1.02	131.6	248928001	
SDF1 OUTERLIMITS STEWARTS DUROC FAR	88 M 2	0.03	-6.60	-0.55	131.1	233822002	
ID2 TINSLEY 94-3 ISLER GENETICS	50 - 1	0.03	-5.74	0.26	130.7	245573003	
WFD2 CORNHUSKER WALDO FARMS	253 2	0.00	-6.07	-0.33	129.8	245363004	
YFG1 NEXT LEVEL 41-2 GOOD FARMS	97 - 1	0.02	-5.13	0.46	128.8	241451002	
STN2 KOI 62-2 SWINE GENETICS INT	21 0 2	.00	-5.25	0.04	127.8	247165002	
STN1 SENSOR 48-2 STEIN & STEWART	274 - 2	0.02	-4.79	0.45	127.4	232844002	
WFD1 CORNHUSKER WALDO FARMS	150 - 1	0.03	-3.89	0.68	124.5	235862001	•
WFD2 KOBE 249-2 WALDO FARMS	39 (2	0.01	-4.25	0.23	124.4	249886002	STAGE
			Iowa	Port	Indu	istry Cente	212/ CT



















Heterosis Levels of T	raits
 Litters/sow/year Litter size Preweaning mortality Growth rate 	= +18% = +8% = -5% = +5%
• Pounds product/sow/year	= +40%
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Genetic System	n Heterosis			
System Level 3% GGP(York x York, Land x Land)	Maternal 0%	Offspring 0%		
12% GP (York x Land)	0%	100%		
85% PS (Duroc x F1)	100%	100%		
Entire Genetic System	85%	97%		
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General	Purebred N	lating Plan		
 Divide the p separate lin For the pure 	ourchased purebro es (A, B, C, D)	eds into four		
Females From Line	Mated To Sires From Line	Offspring Given Line ID		
A	В	Females B, Males A		
В	С	Females C, Males B		
C	D	Females D, Males C		
D	A	Females A, Males D		
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Enter Animals Into Inventory in Computer Program

- Data management program(s)
 - Need to monitor reproductive performance
 - Need to be able to manage growth testing
 - Need to estimate breeding value (BV)
 - Need to create indexes of BV's for selection
- Each animal that has been brought to the farm needs to be entered into inventory (sows and boars)

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A-mode Ultrasound



- Single quartz crystal receives sound waves
- Gives point estimate of characteristics of the tissue of interest
- Digital read-out of depth or graphical representation of sound waves
- Accurate for backfat depth inconsistent for loin depth
- Cannot measure loin muscle area













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