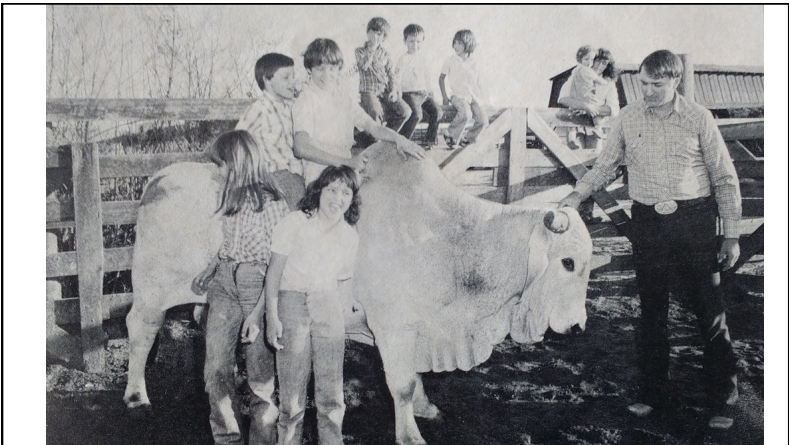


LIVESTOCK GENETIC SERVICES

PEDIGREE + PERFORMANCE + GENOMICS

John Genho



Inventory

Equipment

Genetics

Risk

Employees

Fence

Marketing

Grazing

Insurance

Environment

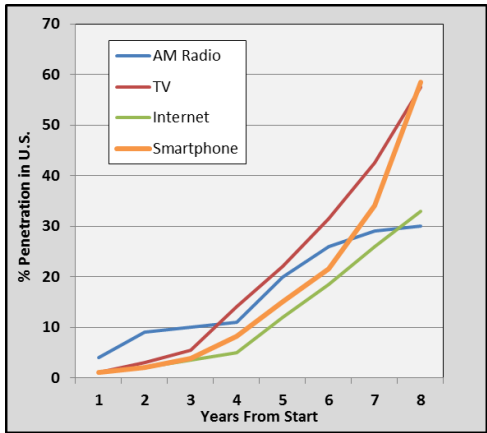
Cash Flow

Calving

Roads

Weed Control





Educate ??
or
Simplify ??

Making the most of genetic
selection in a challenging
environment

Fertility/ Health Traits	Growth Traits	Carcass Traits

Fertility/ Health Traits	Growth Traits	Carcass Traits
<ul style="list-style-type: none">● Heifer Pregnancy● Cow Pregnancy● Cow Survival● Structure● Feedlot health		

<u>Fertility/ Health Traits</u>	<u>Growth Traits</u>	<u>Carcass Traits</u>
<ul style="list-style-type: none"> ● Heifer Pregnancy ● Cow Pregnancy ● Cow Survival ● Structure ● Feedlot health 	<ul style="list-style-type: none"> ● Birth Weight ● Calving Ease ● Weaning Weight ● Feedlot Gain ● Feed Efficiency 	

<u>Fertility/ Health Traits</u>	<u>Growth Traits</u>	<u>Carcass Traits</u>
<ul style="list-style-type: none"> ● Heifer Pregnancy ● Cow Pregnancy ● Cow Survival ● Structure ● Feedlot health 	<ul style="list-style-type: none"> ● Birth Weight ● Calving Ease ● Weaning Weight ● Feedlot Gain ● Feed Efficiency 	<ul style="list-style-type: none"> ● Marbling ● Tenderness ● Ribeye Area ● Back Fat

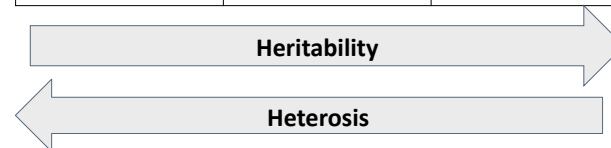
9 : 3 : 1

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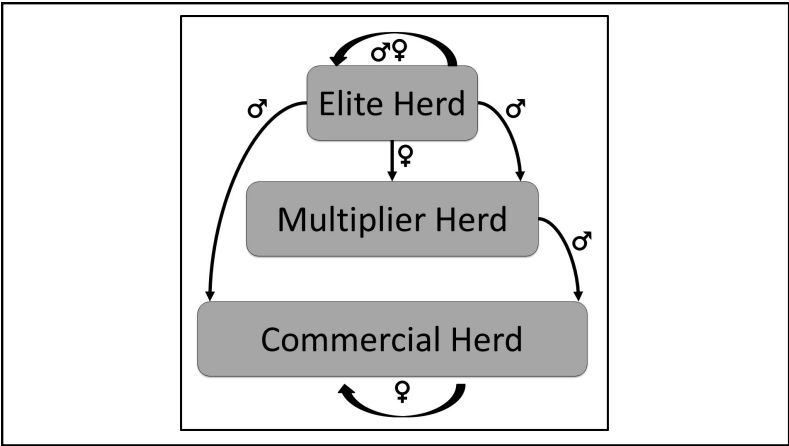
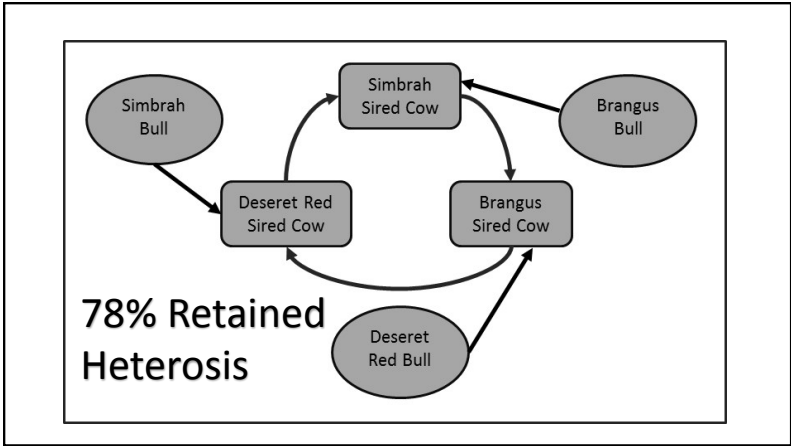
Growth Traits worth 3X Carcass Traits
Fertility/Health Traits worth 3X Growth Traits

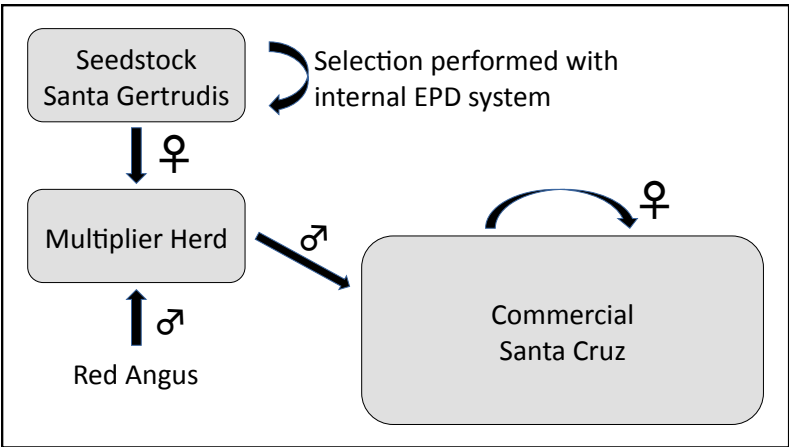
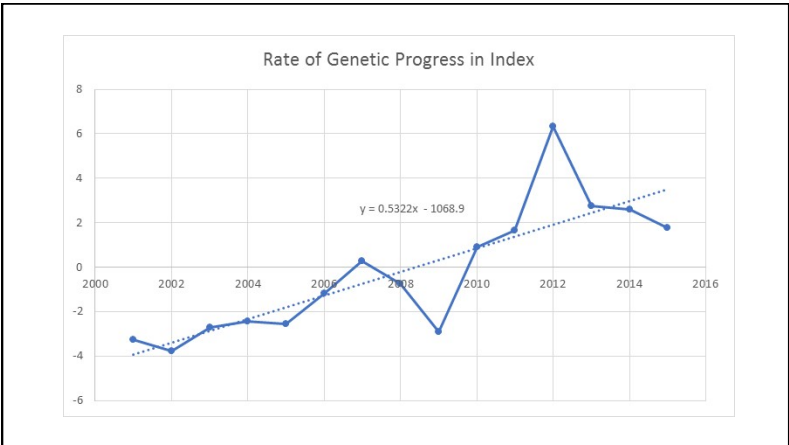
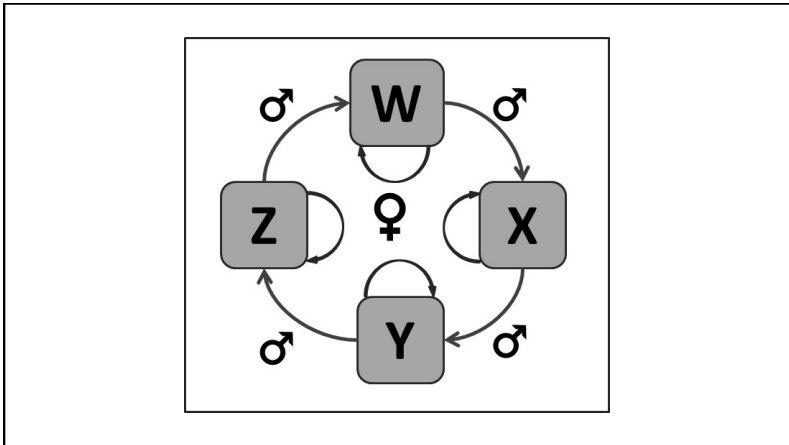
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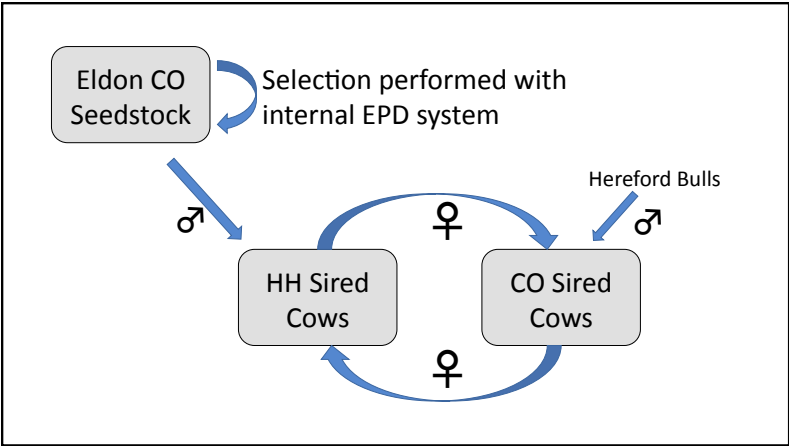
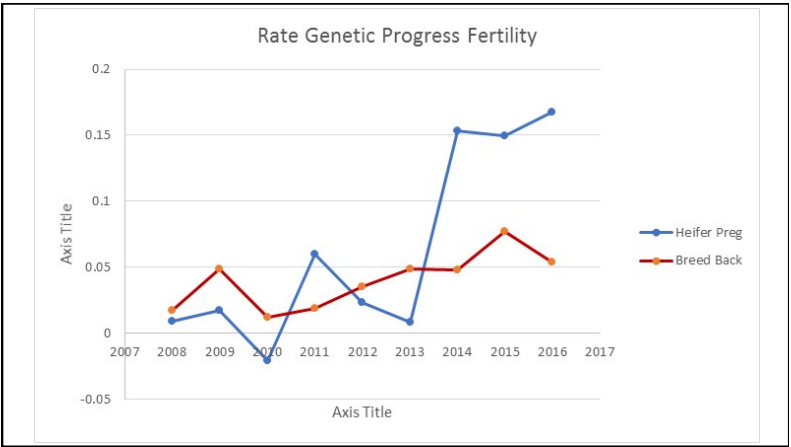
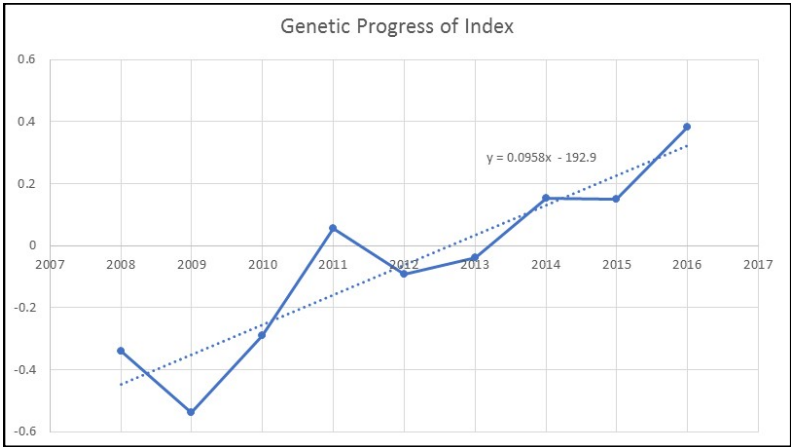
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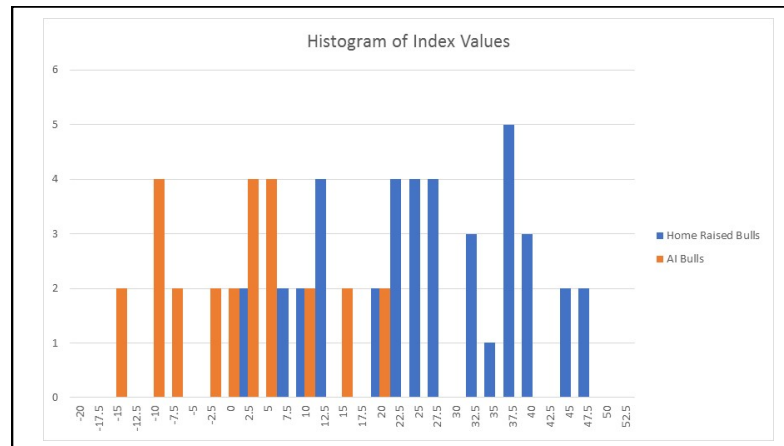
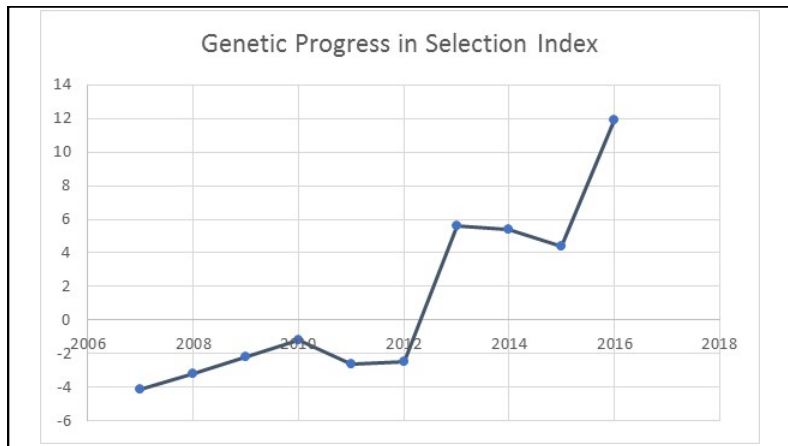


Making the most of genetic selection in a challenging environment









Making the most of genetic selection in a challenging environment



SS rr

10 lbs above group average

8 lbs above group average

ss RR



- S is worth 10 lbs of extra weaning weight
- R is worth 8 lbs of extra weaning weight
- Both are dominant (ie SS=Ss and RR=Rr)





Ss Rr

18 lbs above group average



9 lbs above parent average

F2 - Second Cross

	S R	S r	s R	s r
S R				
S r				
s R				
s r				



F2 - Second Cross

	S R	S r	s R	s r
S R	SS RR	SS Rr	Ss RR	Ss Rr
S r	SS Rr	SS rr	Ss Rr	Ss rr
s R	Ss RR	Ss Rr	ss RR	ss Rr
s r	Ss Rr	Ss rr	ss Rr	ss rr

F2 - Second Cross

Lose half of heterosis over F1

	S R	S r	s R	s r
S R	18 lbs	18 lbs	18 lbs	18 lbs
S r	18 lbs	10 lbs	18 lbs	10 lbs
s R	18 lbs	18 lbs	8 lbs	8 lbs
s r	18 lbs	10 lbs	8 lbs	0 lbs

13.5 lbs above group average
4.5 lbs above parent average

Don't confuse breed percentages for a breeding program

Questions



LIVESTOCK GENETIC SERVICES
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