

Livestock Production Records

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Noble Foundation

TSCRA Ranching 101
July 15, 2014

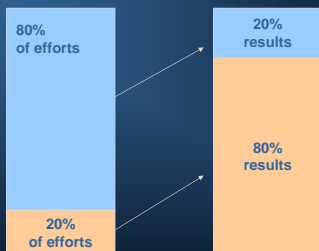
What records should be kept

Use in decision-making

Use as a marketing tool

Record keeping software options

The 80% - 20% Rule



What records?

Your goals

Keep information you are going to use to make management decisions and move toward your goals.

Some Perspective

Regarding profitability:

Weaning a calf 5x growth.
Growth 2x carcass traits.

A cow's ability to wean a calf is directly related to how well she fits my environment.

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Genetics and Environment

AMERICAN ANGUS ASSOCIATION — THE BIRTHDAY PRESENT

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Year	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
Births	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	
Deaths	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Net	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000



Heritability



Reproductive Performance





**Most
Important
Measure**

Heritability Estimates	
Calving interval	.08
Fertility	.10
Birth weight	.45
Weaning weight	.24
Feedlot gain	.34
Height	.85
REA	.70
Tenderness	.60



**Calving Interval, Conception Rate, Fertility
Heritability
0-10%**



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**Pregnancy percentage –
Exposed/pregnant * 100**



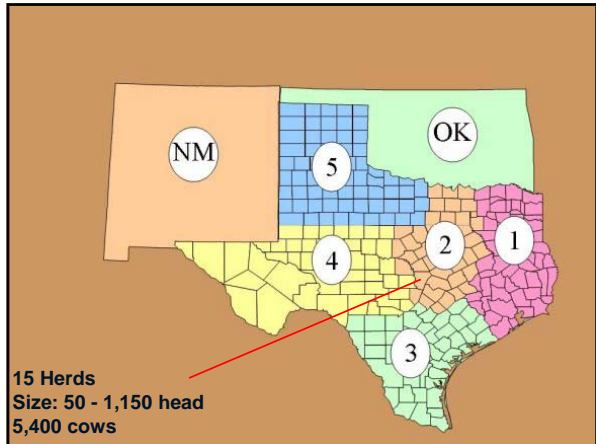



Texas A&M System

Texas Rolling Plains Agricultural Program

Beef Cattle Standard Performance Analysis (SPA)

<http://agrisk.tamu.edu/beef-cow-calf-spa-ranch-economics-and-analysis/>









Texas SPA Region 2 Cow-Calf SPA Key Measures Averages (Last 5 Years)

Actual weaning weight, steers and bulls 575.0

Actual weaning weight, heifers 548.1

Average weaning weight 561.5

Pounds weaned per exposed female 481.9

Some Perspective

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Alphabet Ranch		2005-2006
18		16 Calves
<u>Cows</u>		<u>Sold</u>
Cow		10/22/05
Cow		
Cow		
Cow		
Cow		
Cow		
Cow	What does this tell you?	
Cow		
Cow	What decisions can you make?	
Cow		
Cow	What does this tell the industry about your product?	
Cow		
Cow		

Individual Animal Records

Lets you know which animal belongs to whom.

Allows you compare individual performance:

- Selecting replacement females
- Culling

Individual Cow ID

The first step in ramping up management.

- Hang tag
- Bangs tag
- Description
- Age

Must be able to know them individually.

		Alphabet Ranch		2005-2006	
		Calving			
	Cow ID	Date			
Cow	601	3/17/05		10/22/05	
Cow	602	2/17/05			
Cow	603	2/19/05			
Cow	604	3/20/05			
Cow	605	3/12/05			
Cow	606	3/3/05			
Cow	607	2/5/05			
Cow	608	2/11/05			
Cow	609	2/19/05			
Cow	610	2/21/05			

ID Calves at Branding

Match up calves with dams during the rest of the suckling phase.
But what does that tell you?
Tells you which cows weaned calves.

		Alphabet Ranch		2005-2006	
		Calving		Calf	16 Calves
	Cow ID	Date	ID	Sold	
Cow	601	3/17/05	1	10/22/05	
Cow	602	2/17/05	2		
Cow	603	2/19/05	3		
Cow	604	3/20/05	4		
Cow	605	3/12/05	5		
Cow	606	3/3/05	6		
Cow	607	2/5/05	7		
Cow	608	2/11/05	8		
Cow	609	2/19/05	9		
Cow	610	2/21/05	10		

Some Perspective

Regarding profitability:

**Weaning a calf 5x growth.
Growth 2x carcass traits.**

A cow's ability to wean a calf is directly related to how well she fits my environment.

Weaning Weight

- Neighbor
- County fair barn
- FFA chapter
- Veterinarian
- Auction barn
- County agent
- Ag banks

Weaning Weight

- Now, you have something powerful:

The first information to make accurate selection decisions based on production; why you're keeping them in the first place.

		Alphabet Ranch		2005-2006			
		Calving	Calf	Calf		Weaning	
	Cow ID	Date	ID	Sex		Weight	
Cow	601	3/17/05	1	F	10/22/05	516	
Cow	602	2/17/05	2	F	10/22/05	522	
Cow	603	2/19/05	3	F	10/22/05	534	
Cow	604	3/20/05	4	F	10/22/05	544	
Cow	605	3/12/05	5	F	10/22/05	552	
Cow	606	3/3/05	6	F	10/22/05	556	
Cow	607	2/5/05	7	F	10/22/05	572	
Cow	608	2/11/05	8	F	10/22/05	485	
Cow	609	2/19/05	9	F	10/22/05	592	

But, wait....

At weaning, you have a cow in the lot with a 572# calf at side; next to her is one with a 516# calf at side.

Which is better?

		Alphabet Ranch		2005-2006			
		Calving	Calf	Calf		Weaning	
	Cow ID	Date	ID	Sex		Weight	
Cow	601	3/17/05	1	F	10/22/05	516	
Cow	602	2/17/05	2	F	10/22/05	522	
Cow	603	2/19/05	3	F	10/22/05	534	
Cow	604	3/20/05	4	F	10/22/05	544	
Cow	605	3/12/05	5	F	10/22/05	552	
Cow	606	3/3/05	6	F	10/22/05	556	
Cow	607	2/5/05	7	F	10/22/05	572	
Cow	608	2/11/05	8	F	10/22/05	485	
Cow	609	2/19/05	9	F	10/22/05	592	

Adjusted 205-day Weaning Wt.

$(WW - BW) / \text{Age in days}$

$\times 205 + BW + \text{Dam age adj.} =$

Adjusted 205-day Weight

Alphabet Ranch 2005-2006							
Cow ID	Calving		Calf		Weaning Weight	ADJ 205	
	Date	ID	Sex	Weight		Weight	Weight
Cow 601	3/17/05	1	F	10/22/05	516	488	
Cow 602	2/17/05	2	F	10/22/05	522	446	
Cow 603	2/19/05	3	F	10/22/05	534	459	
Cow 604	3/20/05	4	F	10/22/05	544	520	
Cow 605	3/12/05	5	F	10/22/05	552	512	
Cow 606	3/3/05	6	F	10/22/05	556	498	
Cow 607	2/5/05	7	F	10/22/05	572	468	
Cow 608	2/11/05	8	F	10/22/05	485	407	
Cow 609	2/19/05	2	E	10/22/05	592	508	

Adjusted 205-day Weight Ratio

This is where we were headed:

To be able to hold individual cows accountable for their level of production relative to the other cows in the herd.

To have information to make deliberate decisions about culling/selection.

		Alphabet Ranch		2005-2006					
	Calving		Calf	Calf	Weaning	ADJ 205	ADJ 205		
	Cow ID	Date	ID	Sex	Weight	Weight	Ratio		
Cow	601	3/17/05	1	F	10/22/05	516	488	102	
Cow	602	2/17/05	2	F	10/22/05	522	446	93	
Cow	603	2/19/05	3	F	10/22/05	534	459	96	
Cow	604	3/20/05	4	F	10/22/05	544	520	109	
Cow	605	3/12/05	5	F	10/22/05	552	512	107	
Cow	606	3/3/05	6	F	10/22/05	556	498	104	
Cow	607	2/5/05	7	F	10/22/05	572	468	98	
Cow	608	2/11/05	8	F	10/22/05	485	407	85	
Cow	609	2/19/05	2	F	10/22/05	592	508	106	
							478		

		Alphabet Ranch		2005-2006					
	Calving		Calf	Calf	Weaning	ADJ 205	ADJ 205		
	Cow ID	Date	ID	Sex	Weight	Weight	Ratio		
Cow	601	3/17/05	1	F	10/22/05	516	488	102	
Cow	602	2/17/05	2	F	10/22/05	522	446	93	
Cow	603	2/19/05	3	F	10/22/05	534	459	96	
Cow	604	3/20/05	4	F	10/22/05	544	520	109	
Cow	605	3/12/05	5	F	10/22/05	552	512	107	
Cow	606	3/3/05	6	F	10/22/05	556	498	104	
Cow	607	2/5/05	7	F	10/22/05	572	468	98	
Cow	608	2/11/05	8	F	10/22/05	485	407	85	
Cow	609	2/19/05	2	F	10/22/05	592	508	106	
							478		





TEXAS BEEF QUALITY PRODUCER PROGRAM


[About TBQP](#) [Get Involved](#) [Events](#) [Handbook](#)

TBQP Handbook




[Section 1 - Introduction](#)
[Section 2 - Food Safety](#)
[Section 3 - Record Keeping for Beef Quality Assurance](#)
[Section 4 - Quality Control Points](#)
[Section 5 - Environmental Quality Control Points](#)
[Section 6 - Animal Handling and Well-Being](#)
[Section 7 - Appendix](#)

Record Keeping Tools (pdf) [\[Word.doc\]](#)

The Texas Beef Quality Producer Program is exclusively sponsored by:



The Texas Beef Quality Producer Program is a collaborative effort of the [Texas and Southwestern Cattle Raisers Association](#), [Texas Beef Council](#), and [Texas A&M AgriLife Extension](#).



CERTIFIED



U Lazy 2 Cattle Company

Has completed the requirements set forth by the Texas Beef Quality Producers Program and shall be certified for a period of two years, ending on the date listed below.

Certificate No. 1002

Expiration Date: 12/31/04


John E. Dudley, President,
Texas and Southwestern Cattle Raisers Association

CATTLE PREVENTATIVE HERD HEALTH PROCESSING INFORMATION

Owner: Jim Smith Ranch: Healthy Calf Ranch Promises ID: 1234567

Initial Working (Branding) **Calves** Date: 13 May 2008

Sex M # 20 F # 19 Dehorn # 15 Castrate # 20 Knife Band

Site	Product	Dose (mL)	Route	Lot#	Exp. Date	Initials
(1)	Ultrabac, Pfizer	5 cc	IM/IV Oral SQ Topical Ear	AQX123WZ	Aug. 2008	RSW
(2)	Cattlemaster 4-VL5, Pfizer	5 cc	IM/IV Oral SQ Topical Ear	A600678	5 Aug. 2008	RSW
(3)			SQ IM/IV Oral SQ Topical Ear			
(4)			SQ IM/IV Oral SQ Topical Ear			
(5)			SQ IM/IV Oral SQ Topical Ear			

Brand: _____ Location: _____ Date: _____

Secondary Working (Weaning)

Sex M # _____ F # _____ Dehorn # _____ Castrate # _____ Knife Band

Site	Product	Dose (mL)	Route	Lot#	Exp. Date	Initials
(6)			SQ IM/IV Oral SQ Topical Ear			
(7)			SQ IM/IV Oral SQ Topical Ear			
(8)			SQ IM/IV Oral SQ Topical Ear			

Records:

Maintain records for at least 3 yrs.

Helps in marketing

Validates vaccine administration

Give to buyer

CATTLE PREVENTATIVE HERD HEALTH PROCESSING INFORMATION

Owner: _____ Ranch: _____ Promises ID: _____

Initial Working (Branding) **Calves** Date: _____

Sex M # _____ F # _____ Dehorn # _____ Castrate # _____ Knife Band

Site	Product	Dose (mL)	Route	Lot#	Exp. Date	Initials
(1)			SQ IM/IV Oral SQ Topical Ear			
(2)			SQ IM/IV Oral SQ Topical Ear			
(3)			SQ IM/IV Oral SQ Topical Ear			
(4)			SQ IM/IV Oral SQ Topical Ear			
(5)			SQ IM/IV Oral SQ Topical Ear			

Brand: _____ Location: _____ Date: _____

Secondary Working (Weaning)

Sex M # _____ F # _____ Dehorn # _____ Castrate # _____ Knife Band

Site	Product	Dose (mL)	Route	Lot#	Exp. Date	Initials
(6)			SQ IM/IV Oral SQ Topical Ear			
(7)			SQ IM/IV Oral SQ Topical Ear			
(8)			SQ IM/IV Oral SQ Topical Ear			
(9)			SQ IM/IV Oral SQ Topical Ear			

Brand: _____ Location: _____ Date: _____

Rebranding

Sex M # _____ F # _____ Dehorn # _____ Castrate # _____ Knife Band

Site	Product	Dose (mL)	Route	Lot#	Exp. Date	Initials
(10)			SQ IM/IV Oral SQ Topical Ear			
(11)			SQ IM/IV Oral SQ Topical Ear			
(12)			SQ IM/IV Oral SQ Topical Ear			

Brand: _____ Location: _____ Date: _____

Owner or Agent: _____ Date: _____
 Veterinarian: _____ Date: _____

Additional Best Management Practices –

Feed Records

1. Keep all feed records for at least two years.
2. It's a good management practice to require that all feed products be accompanied by an invoice that includes the date, amount, and composition of any custom mixed feeds.

Chemical Records

1. If grazing/haying restrictions or withdrawal times apply, records should be maintained for non-restricted pesticides.



Perceived Performance Differences by TCFA Feedlot Managers


	Non-preconditioned	Preconditioned
% Sick	36.4	9.2
% Death loss	4.3	1.5
ADG	2.6	2.9
Conversion	6.9	6.3
% Choice	35.8	50.4

45-day Preconditioning Feedlot Performance/Profitability

	Non-preconditioned	Preconditioned
No. head	1492	1685
Feedlot in wt	564	579
Feedlot out wt	1126	1173
DOF	217	205
ADG	2.59	2.88
Conversion	6.45	5.98
Medicine costs	\$30.66	\$13.74
% pulled	62.0	19.0
Death loss	2.61	0.53
Feedlot COG	\$56.70	\$49.68
Final value	\$771.13	\$803.51
Final cost	\$318.65	\$295.10
Difference	\$452.48	\$508.41
Net		\$55.93

(Continued from Page 1)

**Producer Alliance
Commingled Calf Sale**




**INTEGRITY
BEEF**

More than 1,200 head of preconditioned calves

All calves are:

- Weaned, vaccinated and preconditioned for a minimum of 45 days;
- Age and source verified through Micro Beef PVP Program;
- Sired by predominately Angus and Charolais bulls selected for outstanding growth traits, top twenty percent for weaning and yearling weights; and
- Born to herds that are tested and managed to maintain P1 BVD negative status.

Dec. 7, 2011
OKC West Livestock Market, Inc.
El Reno, Okla.

For more information, please contact
Hugh Aljoe at 580.224.6446.

**INTEGRITY
BEEF**

Over 1100 hd of Preconditioned Calves

December 2, 2009

Oklahoma City West Livestock Market
El Reno, OK


Herd sires were selected for exceptional growth traits
(Weaning and Yearling Weight EPD's in top 20% of their breed)

All calves are:

- Weaned and preconditioned for a minimum of 45 days
- Vaccinated and heat-treated against Clostridial (Blackleg) bacteria, viral respiratory complex BVD, BVD, P13 and IBR (using MLV vaccine)
- De-wormed, de-horned, castrated and healed
- Age and source verified through Micro Beef PVP Program
- Individually identified by Electronic Identification Device (EID)
- Produced by Beef Quality Assurance (BQA) certified producers
- Sorted into large uniform groups
- Ranch raised

Vaccination and production records are available to buyers on request.

For more information about the program or specific
calves being sold, please contact Hugh Aljoe at
580.224.6446.



AGE VERIFIED
WEANED 7/20/05

PRECONDITIONED ACCORDING TO BQA
STANDARDS FOR 45 DAYS

VACCINATIONS 7/21/05
BLACKLEG, LEPTO, IVERMECTIN
WORMER, BOVISHIELD S

VACCINATIONS 8/5/05
BOVISHIELD S (BOOSTER)

STARTED ON FEED 7/22/05
5 LBS PER HEAD OF 14% CALF STARTER/ DAY
FREE CHOICE 18% PROTEIN WHEAT HAY
KEPT ON GOOD STANDING FERTILIZED
COASTAL BERMUDA

Record keeping software options

Won't speed up record keeping and data recording

Will enable quicker, more powerful analysis

Will provide storage advantages

Agricultural Division

THE NORTHERN HORNED
NOBLE
FOUNDATION

<http://www.americancattlemen.com/articles/product-review-%E2%80%93-ag-software>

CattleMax
www.cattlemax.com

Midwest Microsystems' Cow Sense
www.midwestmicro.com

Global Livestock Management Systems' Cattle Pro™
www.cattlepro.com

CattleWorks
www.cattleworks.com

CattleXpert™ LLC.
www.cattlexpert.com

Lion Edge's Ranch Manager(Cattle edition)
www.lionedge.com

EZ-Ranch Cattle Management Software
www.ez-ranch.com

Summary

Set goals

Define breeding season

Calving interval

Weaning percentage

BQA-related data

Questions/Discussion