NUTBAL User Training

Grazingland Animal Nutrition Lab
April 2016

GANLAB Personnel

- **Jay Angerer – Associate Professor**
  - Principal Investigator for GANLAB
  - Coordinates and conducts research with domestic and international collaborators
- **Jennifer Childers – Research Assistant**
  - Manages daily operations of laboratory
  - Reviews/Runs NUTBAL reports and writes advisories
  - Quality Control
- **Tony Owen – Research Associate**
  - Customer Service
  - Quality Control
- **Kimberly Sanchez – Business Assistant**
  - Invoicing
  - Account Reconciliation

GANLAB Location

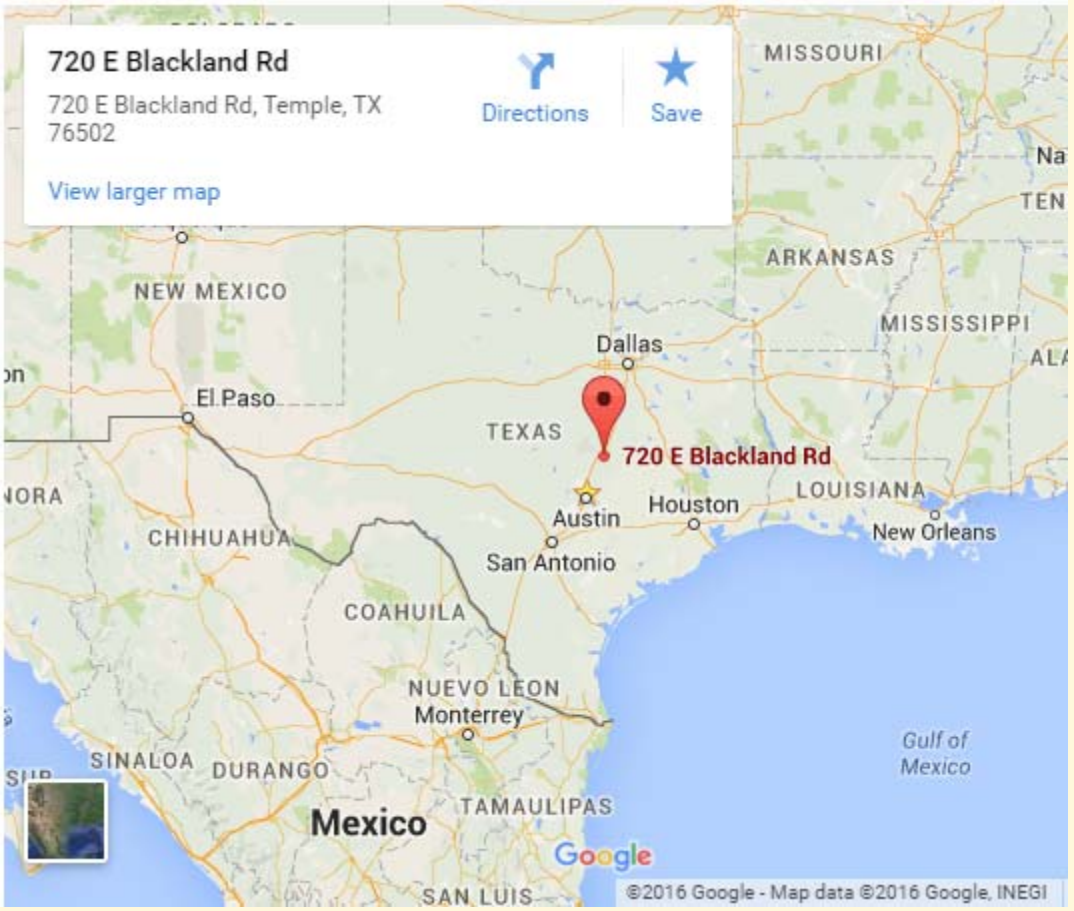
Texas A&M AgriLife Research

Blackland Research and Extension Center

720 E. Blackland Road

Temple, Texas 76502

254-774-6134



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6. Entering individual sample info into NUTBAL
    - Basic nutrition requirement Info
    - Body condition score(BCS)
    - Feeds
7. Filling out paper sample sheet
8. Lab processing
9. Results interpretation
10. Invoicing and payment

The Need for Nutritional Monitoring

- Monitoring livestock nutrition to meet management objectives (e.g. gain and reproduction) poses a challenge:
  1. For free-ranging livestock, it can be hard to determine the forage quality
  2. If the quality were known, knowing how much to supplement to meet goals would optimize feeding and animal performance
  3. Texas A&M University, in collaboration with NRCS and other universities and organizations, has developed tools and techniques for improving livestock nutrition management

Tools and Techniques Developed by Texas A&M

1. **Fecal Near Infrared Reflectance Spectroscopy (FNIRS)** to assess diet quality of free ranging herbivores

2. **Nutritional Balance Analyzer Simulation Model (NUTBAL)** to assess animal performance based on diet quality and provide recommendations for supplemental feeding to meet performance goals

The Fecal NIRS/ NUTBAL Pro System

- Combining the Nutritional Profiling capabilities of Forage Quality Analysis with a simulation model to evaluate nutritional well being of livestock
- Evaluate how current nutrition will influence body condition and performance in the next 30 days
- Can be used to design optimal supplemental feed strategies

Forage Quality Analysis Using Fecal Near Infrared Spectroscopy (NIRS)

Near Infrared Reflectance Spectroscopy (NIRS)

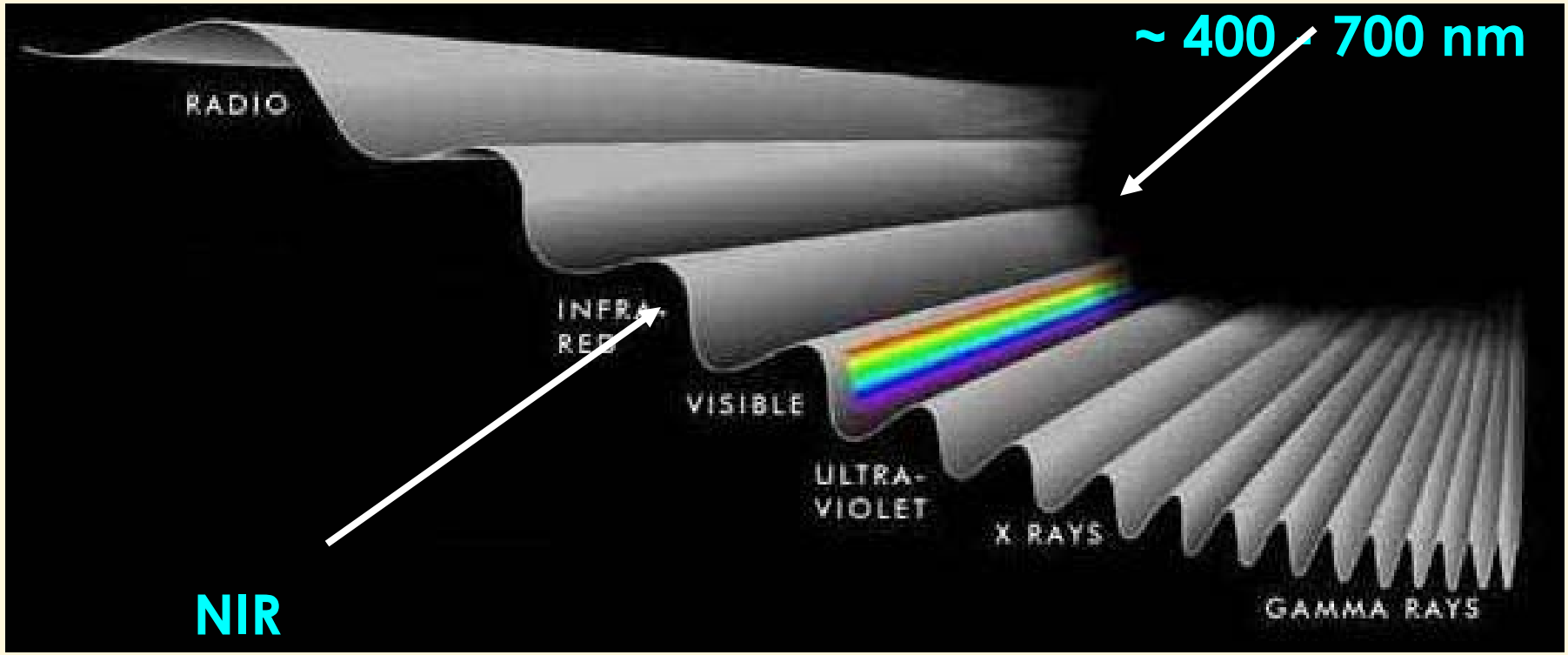
What is Near Infrared Reflectance Spectroscopy?

A technology that examines the interactions between matter (or substances) and electromagnetic radiation in the near- infrared wavelengths

The Electromagnetic Spectrum

Visible

~ 400 - 700 nm

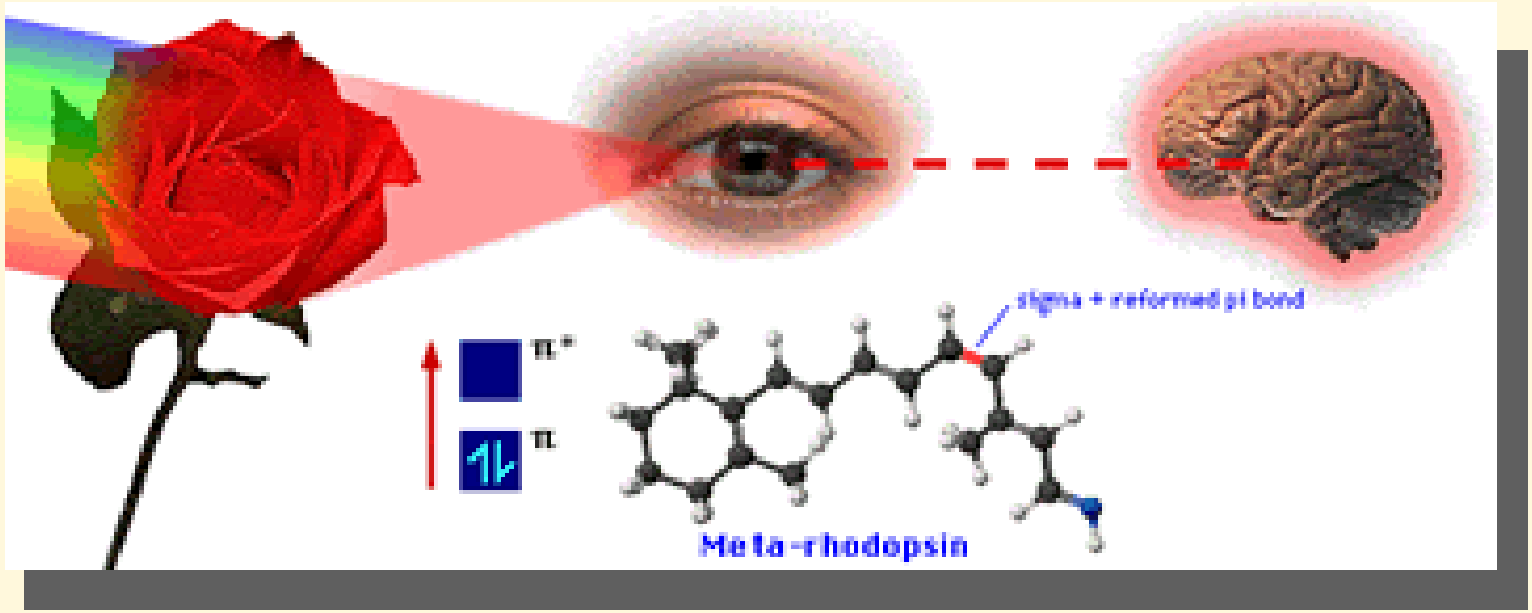


NIR

~ 1100- 2500 nm

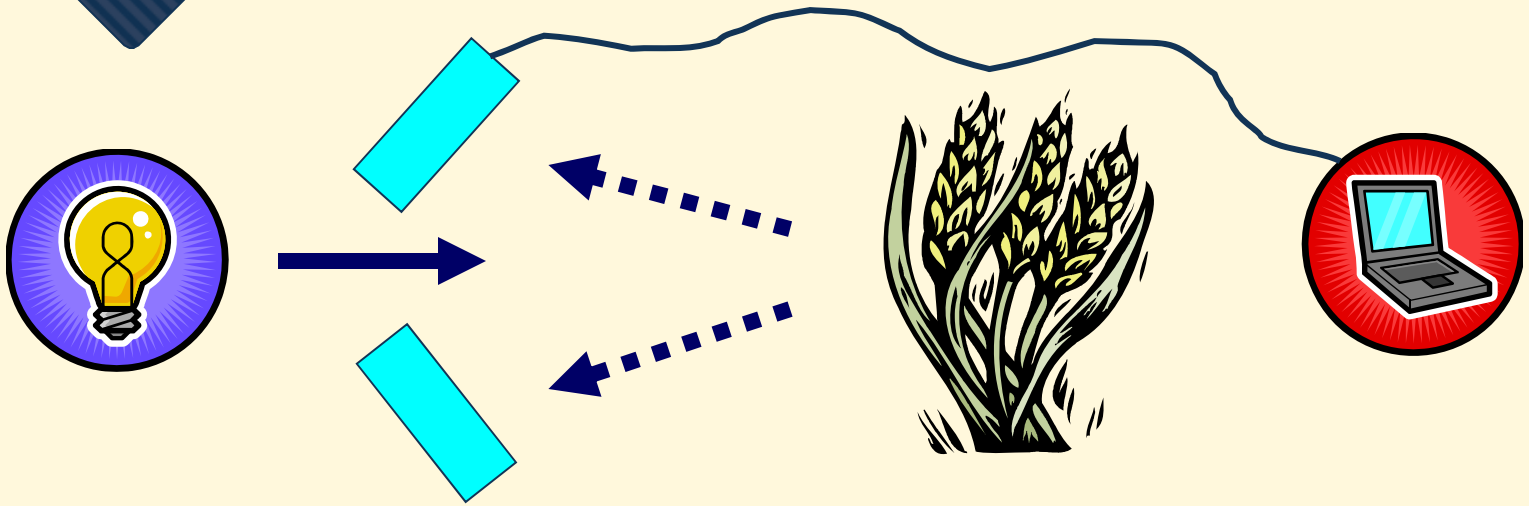
NIR wavelengths are longer and not visible to the human eye.

Human Color Vision



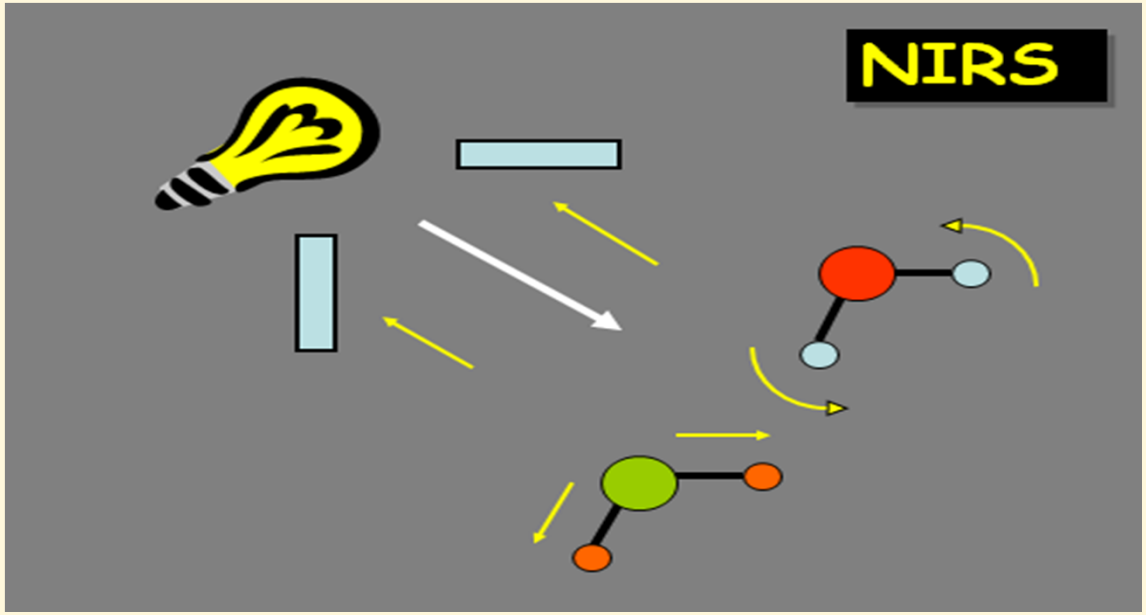
Light waves reflect or become absorbed.
The color wave that is reflected is what we see.

Reflectance



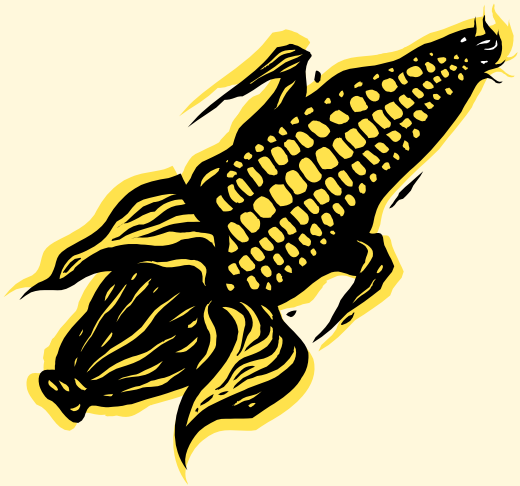
- When a light source is used to illuminate a material, such as plant, grains, manure, etc, light is reflected from the material in both the visible and infrared regions of the electromagnetic spectrum.
- The reflected light can be measured using special instruments

Radiating the Sample

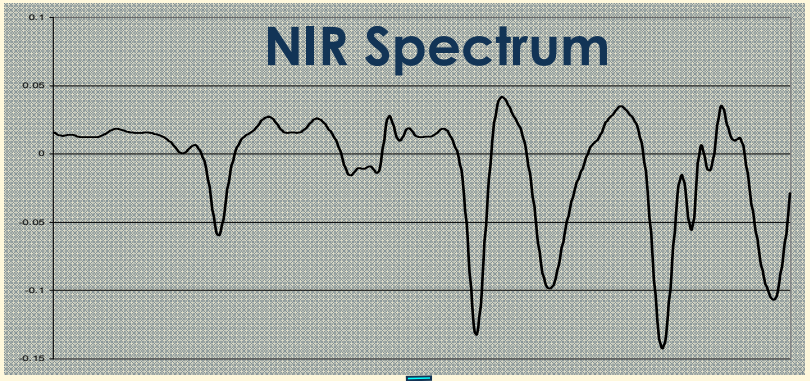


- When the light radiates the sample, the molecules contained within it twist, bend, and vibrate at different wavelengths. Some of the light is absorbed, similar to how the rose absorbed light, and some is reflected.
- The light that is reflected is "caught" by the detectors. Through mathematical equations, the amount of light that was absorbed can be calculated.

Traditional NIRS Calibration



Material of interest



Wet Chemistry from Forage Lab

$$Y = \beta_0 + \beta_{1x} + \varepsilon$$

Equation Developed for NIRS Instrument

Rapid prediction from NIRS scan

Fecal Chemistry

Carbon

Oxygen

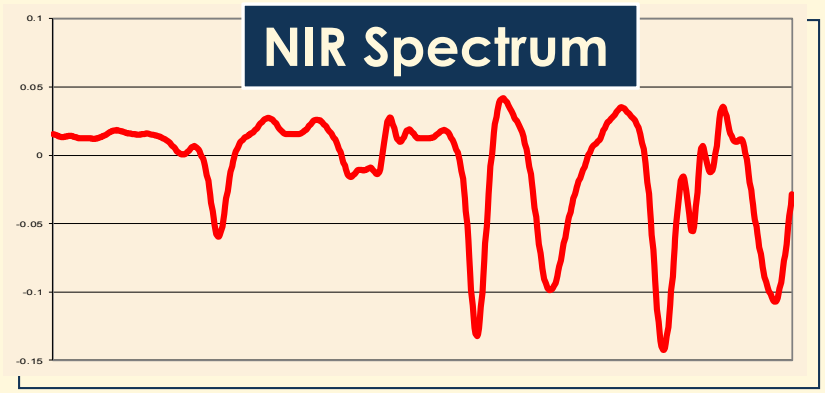
Nitrogen

Hydrogen

Diet Quality

Crude Protein

Dig. Org. Matter



+

Wet Chemistry from Forage Lab

Predicted Diet

Crude Protein

Digestible Organic Matter

=

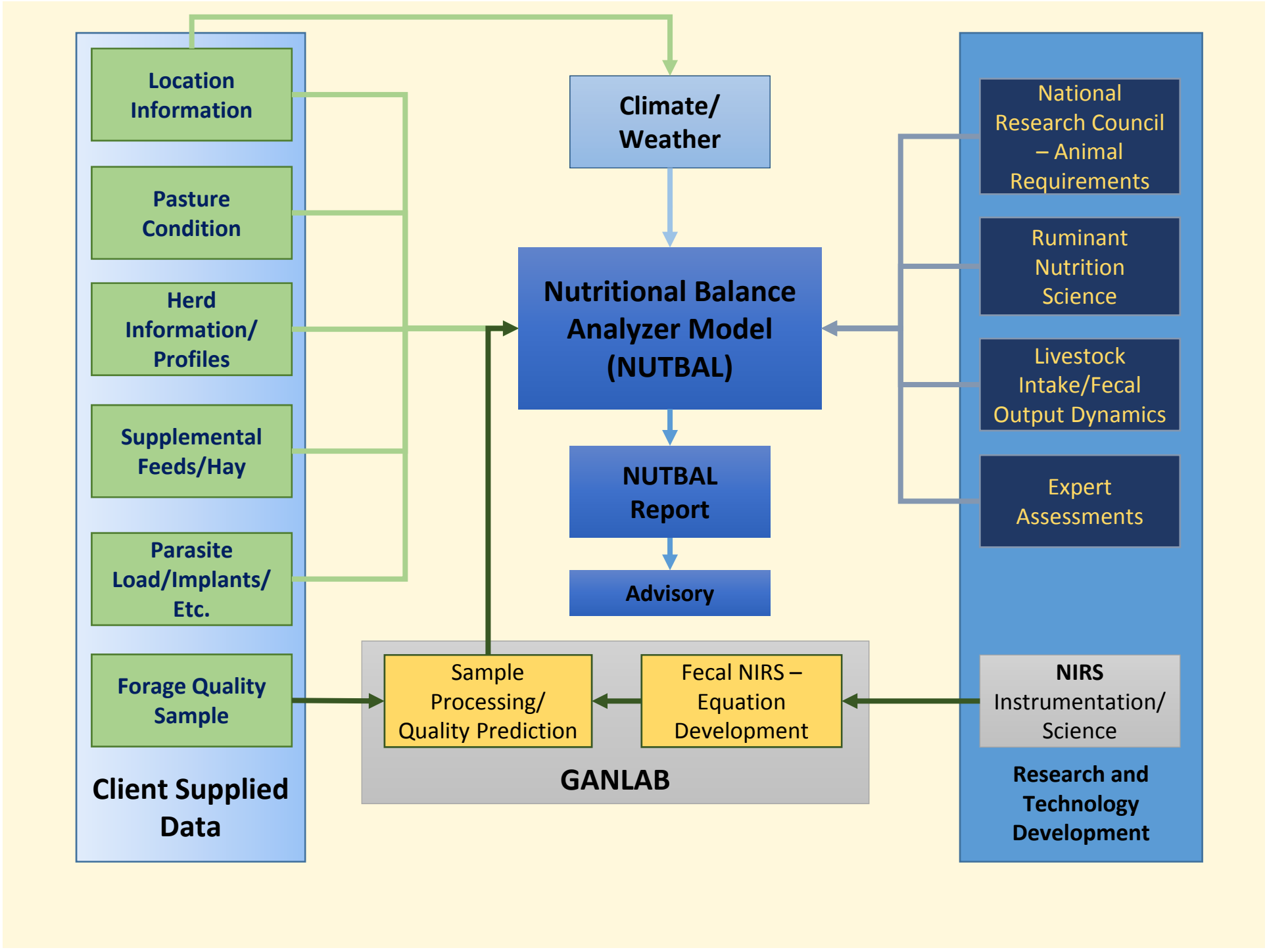
$$Y = \beta_0 + \beta_{1x} + \varepsilon$$

NUTBAL – Nutritional Balance Analyzer

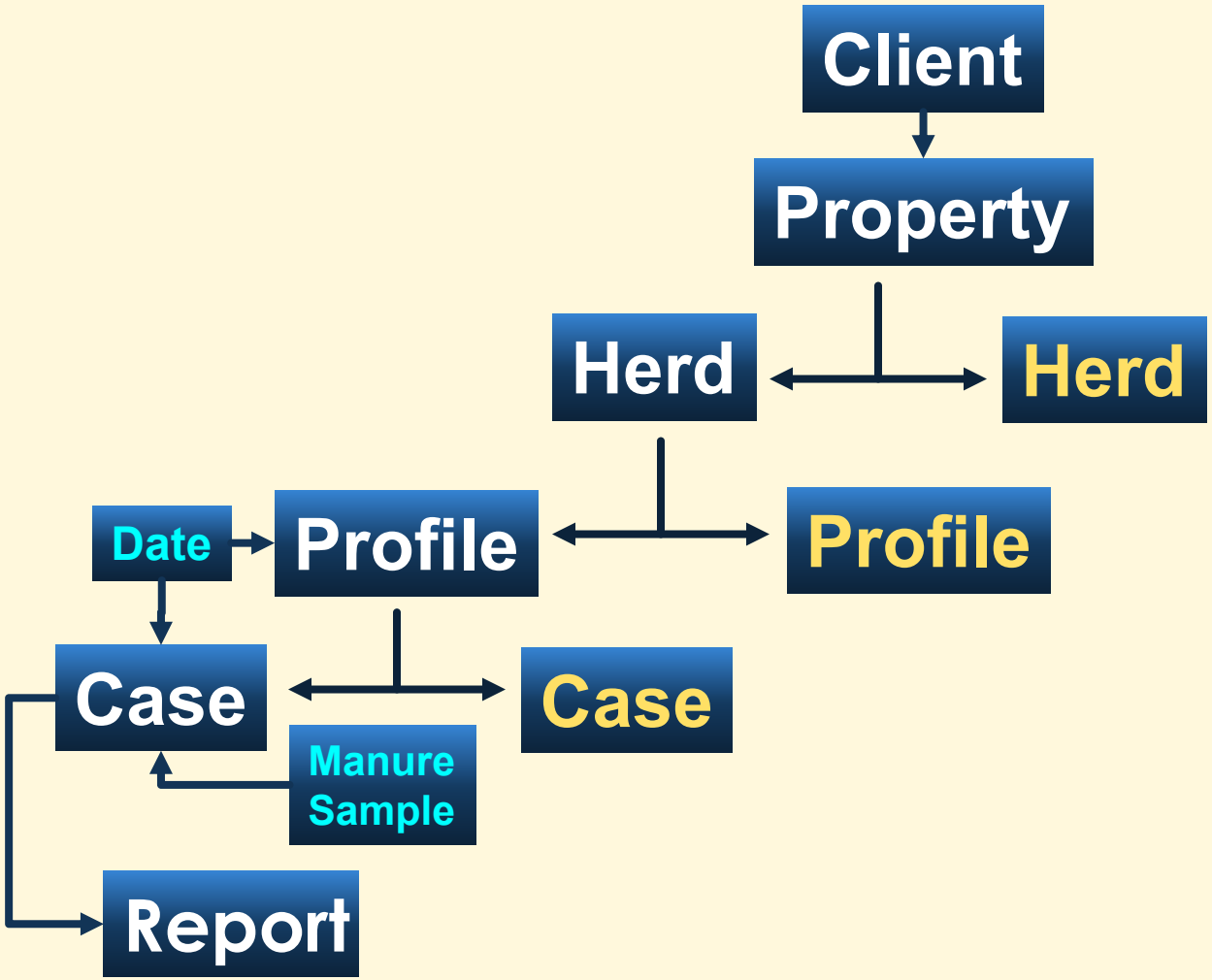
- NUTBAL is a simulation model and decision support system that translates diet quality predictions from the NIRS system to assess the current nutritional status of the animal and estimated gain/loss over the next 30 days

- Information on herd profiles, environmental conditions and feed/metabolic modifiers inputs provided by the producer are used to parameterize the model

- Producer inputs are very important to allow us to provide a more accurate assessment of your local conditions and animal performance


Location Information
Pasture Condition
Herd Information/ Profiles
Supplemental Feeds/Hay
Parasite Load/Implants/ Etc.
Forage Quality Sample
Client Supplied Data
Climate/ Weather
Nutritional Balance Analyzer Model (NUTBAL)
NUTBAL Report
Advisory
Sample Processing/ Quality Prediction
Fecal NIRS – Equation Development
GANLAB
National Research Council – Animal Requirements
Ruminant Nutrition Science
Livestock Intake/Fecal Output Dynamics
Expert Assessments
NIRS Instrumentation/ Science
Research and Technology Development

NUTBAL Online – Information Organization



Client / Organization

Ranch/Location

Group of animals sampled by pasture

Age / Breed / Repro...

Diet / Weather / Feed...

Nutritional Balance
Milk Production
Fecal Output/ Intake

Bottom Line

- Nutrition today will influence livestock condition in the future
  - Animal Health
  - Reproductive Capacity
  - Ultimately, producer costs/profits

TAES, Vernon

NUTBAL Parameterization

- To effectively use the fecal profiling information in conjunction with NUTBAL, the user must:
  - characterize the breed, class, age, physiological stage and body/coat condition of the animal.
  - Pasture conditions - slope, water distance, estimate of available forage standing crop
  - Climate conditions - maximum air temperature and wind speed

NUTBAL Parameterization

- Additional Parameters
  - Feedstuffs and supplemental feeds used
  - Implants applied and feed additives
  - Diet Quality - Results of the Fecal NIRS Analysis
- The producer should include a performance goal (+,0,-) for the animals in question that will be used for the nutritional requirements calculations.

Introduction to NUTBAL Online

Setting Up NUTBAL Account

NUTBAL Account

1. NUTBAL Online
    - Set up NUTBAL Online account by going to http://cnrit.tamu.edu/ganlab/ (tends to work better with Chrome or Firefox)
        - Under main menu click NUTBAL Online

NUTBAL Online
Nutrition Balance Analyzer

About Us | Sample Form | Tutorial

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Username:
Password:
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New Account

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Create New Account

Duplicate accounts will be removed!

Account Type: Client

Project Name: Choose One

First Name:

Last Name:

Email:

Re-type Email:

Username:

Password:

Re-type Password:

A confirmation email will be sent immediately

*If you have received reports from the lab but are unable to login, **do not create a new account**. Duplicate accounts will be deleted! Use the forgot credentials link or call the lab.*

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Choose **Client** or **Technical Advisor**

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Are you enrolled in **CSP**? If not, you may click **None** or **Other**.

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Enter first and last name for person responsible to the samples

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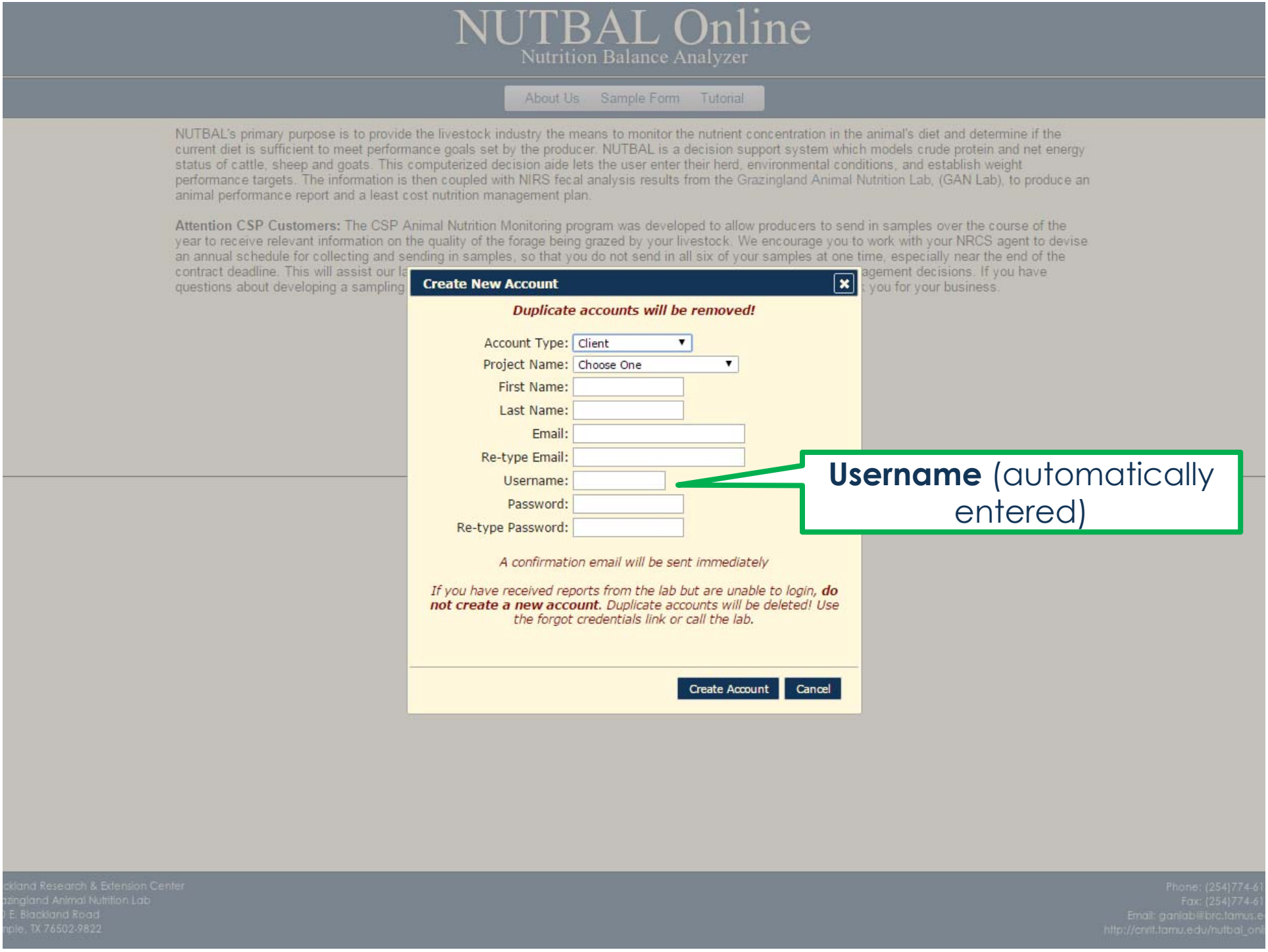
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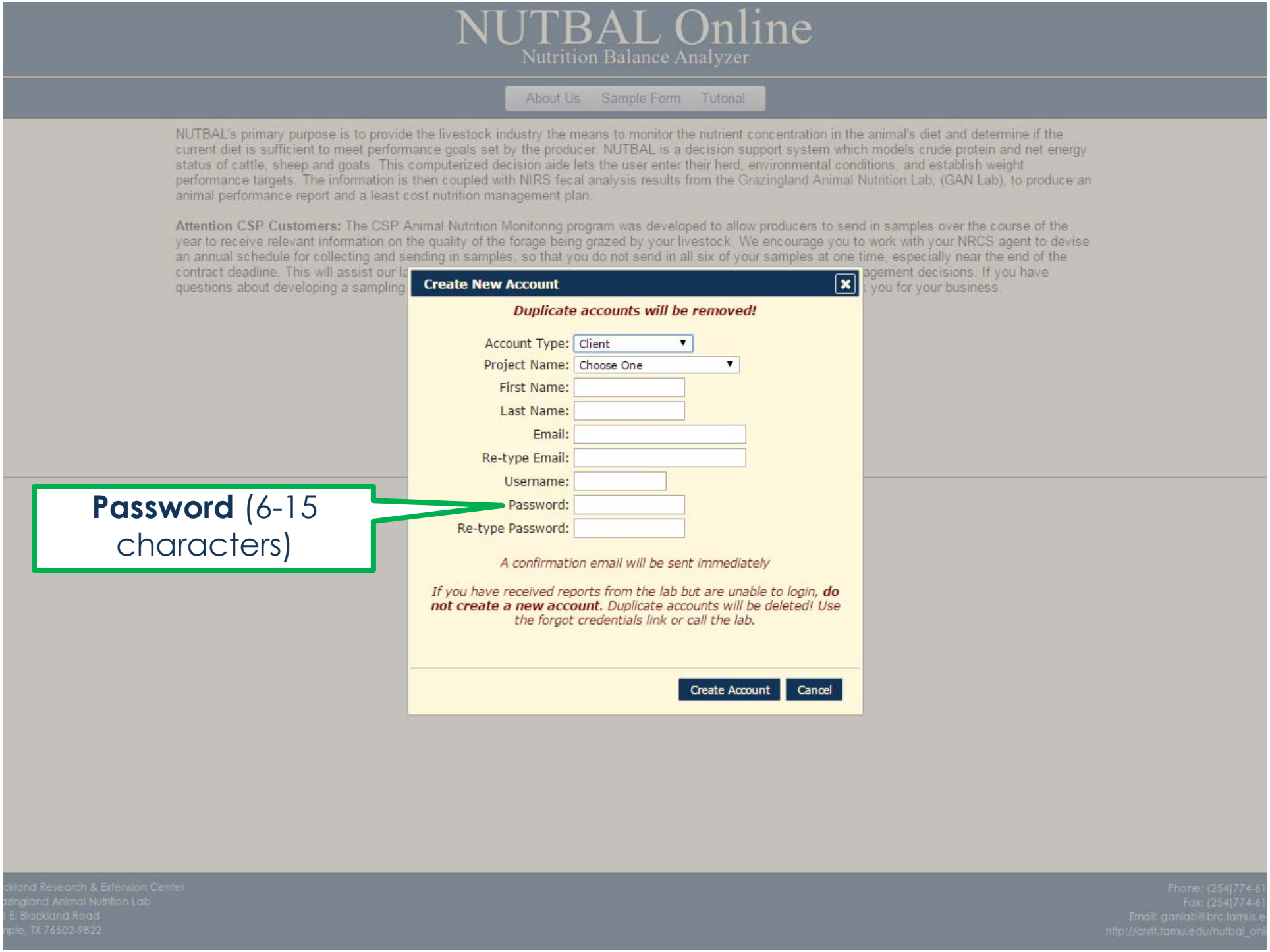
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Click **login**

Username:

Password:

Login (orgot credentials)

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Type your *Username* and *Password* in the boxes provided.

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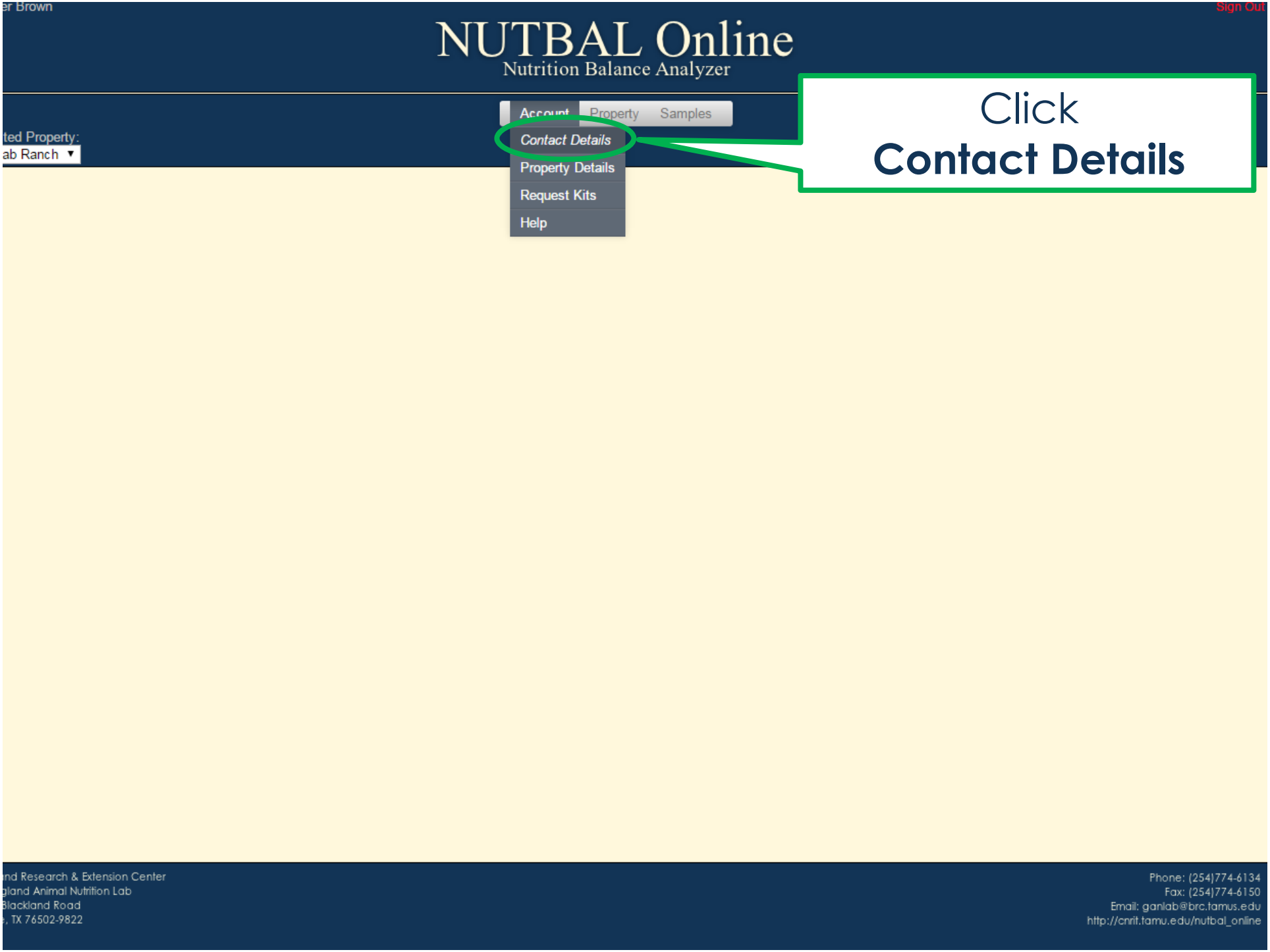
Contact Information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Sign Out
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Farmer Brown

Sign Ou

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Contact Information

Save

First Name:	Farmer
Last Name:	Brown
Address:	720 E. Blackland Road
(optional) Address:	
Zip:	76502
City:	Temple
State:	Texas
Phone:	(254)774-6134
(optional) Fax:	(254)774-6150
(optional) Email:	
Project Name:	Other
Preferred Units:	English

Change Password

Farmer Brown

Sign Ou

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Save

Contact Information

Save

First Name: Farmer
Last Name: Brown
Address: 720 E. Blackland Road
(optional) Address:
Zip: 76502
City: Temple
State: Texas
Phone: (254)774-6134
(optional) Fax: (254)774-6150
(optional) Email:
Project Name: Other
Preferred Units: English

Change Password

Farmer Brown

Sign Ou

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Contact Information

Save

First Name: Farmer
Last Name: Brown
Address: 720 E. Blackland Road
(optional) Address:
Zip: 76502
City: Temple
State: Texas
Phone: (254)774-6134
(optional) Fax: (254)774-6150
(optional) Email:
Project Name: Other
Preferred Units: English

Change Password

Property Details

- If you have multiple ranches, you will be able to specify each one.
  - System can accommodate large operations that may have ranches in other states.
  - This comes in handy when we send you kits and reports. For example, if you have cattle being tested in Oklahoma, it would be easier to send kits there rather than sending them to your home or office in Kansas.
- If you have a single ranch or have your cattle out on pasture without a mailing address, you will be able to select "Same as the Customer Contact Info."
- If no ranches are specified, you will not be able to put in any other information about your pastures or sample description.

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

- Contact Details
- *Property Details*
- Request Kits
- Help

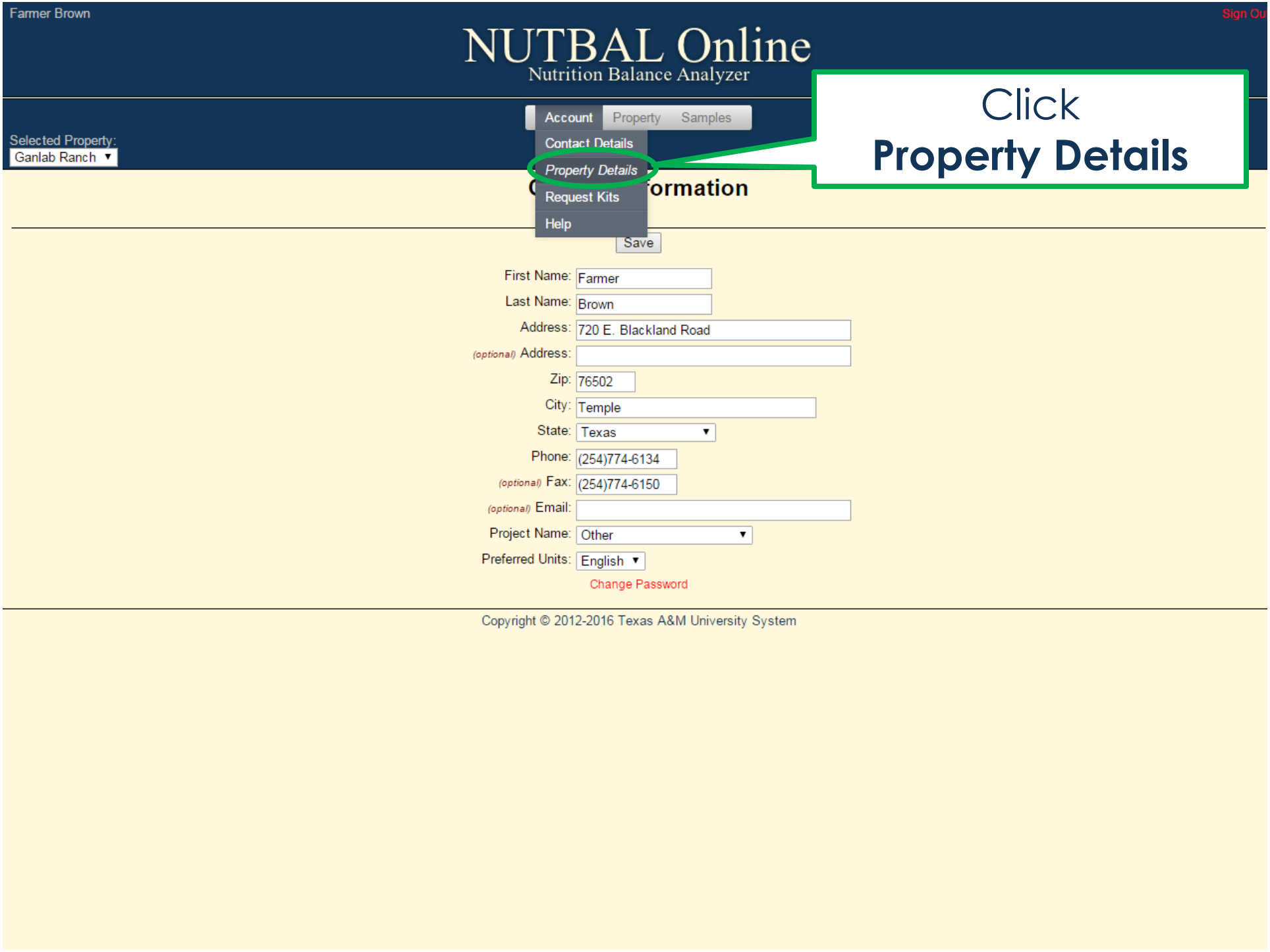
Selected Property:
Ganlab Ranch

C...formation

Save

First Name: Farmer
Last Name: Brown
Address: 720 E. Blackland Road
(optional) Address:
Zip: 76502
City: Temple
State: Texas
Phone: (254)774-6134
(optional) Fax: (254)774-6150
(optional) Email:
Project Name: Other
Preferred Units: English

Change Password


Farmer Brown
Sign Out
NUTBAL Online
Nutrition Balance Analyzer
Account
Property
Samples
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Property Details
Request Kits
Help
Selected Property:
Ganlab Ranch
Click
Property Details
ormation
Save
First Name: Farmer
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Address: 720 E. Blackland Road
(optional) Address:
Zip: 76502
City: Temple
State: Texas
Phone: (254)774-6134
(optional) Fax: (254)774-6150
(optional) Email:
Project Name: Other
Preferred Units: English
Change Password
Copyright © 2012-2016 Texas A&M University System

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Property Details

Do not describe grazing areas on this page. They are described on the Pastures page.

Save Delete

New Property

Select Property: New Property

Property Name:

Copy Contact Details

Address:

(optional) Address:

Zip:

City:

State: Choose one

Phone:

(optional) Fax:

Technical Advisor: Receives report

Send Report via Mail to Customer

Google Maps does get the location wrong periodically so please verify the marker location.

Reposition the property's map marker as needed to reflect the general location of the property.

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

Property Details

Do not describe grazing areas on this page. They are described on the Pastures page.

Save | Delete

Select Property: New Property

Property Name:

Ranch Name

Copy Contact Details

Address:

(optional) Address:

Zip:

City:

State: Choose one

Phone:

(optional) Fax:

Technical Advisor: Receives report

Send Report via Mail to Customer

Google Maps does get the location wrong periodically so please verify the marker location.

Reposition the property's map marker as needed to reflect the general location of the property.

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

Property Details

Do not describe grazing areas on this page. They are described on the Pastures page.

Save | Delete

Select Property: New Property

Property Name:

Copy Contact Details

Copy or Enter Contact Details

Address:

(optional) Address:

Zip:

City:

State: Choose one

Phone:

(optional) Fax:

Technical Advisor: Receives report

Send Report via Mail to Customer

Google Maps does get the location wrong periodically so please verify the marker location.

Reposition the property's map marker as needed to reflect the general location of the property.

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

Property Details

Do not describe grazing areas on this page. They are described on the Pastures page.

Save | Delete

Select Property: New Property

Property Name:

Copy Contact Details

Address:

(optional) Address:

Zip:

City:

State: Choose one

Phone:

(optional) Fax:

Technical Advisor: Receives report

Send Report via Mail to Customer

Technical Advisor?

Google Maps does get the location wrong periodically so please verify the marker location.

Reposition the property's map marker as needed to reflect the general location of the property.

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

Property Details

Do not describe grazing areas on this page. They are described on the Pastures page.

Save | Delete

Select Property: New Property

Property Name:

Copy Contact Details

Address:

(optional) Address:

Zip:

City:

State: Choose one

Phone:

(optional) Fax:

Technical Advisor: Receives report

Send Report via Mail to Customer

Google Maps does get the location wrong periodically so please verify the marker location.

Reposition the property's map ma as needed to reflect the general location of the property.

Preferred Method

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Property Details

Do not describe grazing areas on this page. They are described on the Pastures page.

Save Delete

Select Property: New Property

Property Name:

Copy Contact Details

Address:

(optional) Address:

Zip:

City:

State: Choose one

Phone:

(optional) Fax:

Technical Advisor: Receives report

Send Report via Mail to Customer

Google Maps does get the location wrong periodically so please verify the marker location.

Reposition the property's map marker as needed to reflect the general location of the property.

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

Property Details

Do not describe grazing areas on this page. They are described on the Pastures page.

Save | Delete

Select Property: Ganlab Ranch *Created by Farmer B on 2014-04-11*

Property Name: Ganlab Ranch

Copy Contact Details

Address: 720 E. Blackland Road

(optional) Address:

Zip: 76502

City: Temple

State: Texas

Phone: (254)774-6134

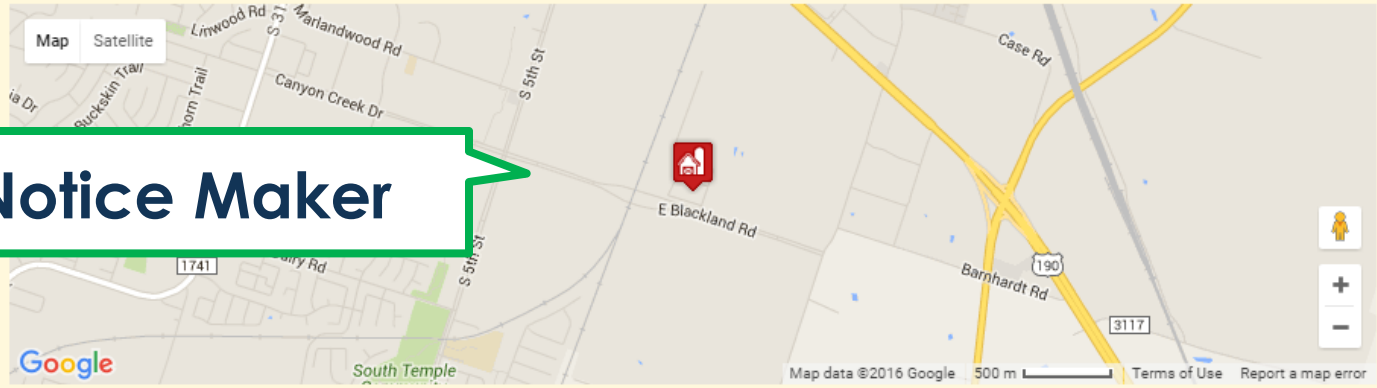
(optional) Fax: (254)774-6150

Technical Advisor: Choose (optional) Receives report

Send Report via Mail to Property

Google Maps does get the location wrong periodically so please verify the marker location.

Reposition the property's map marker as needed to reflect the general location of the property.



Notice Maker

Forgot Username/ Password

NUTBAL Online

Nutrition Balance Analyzer

About Us | Sample Form | Tutorial

NUTBAL's primary purpose is to provide the livestock industry the means to monitor the nutrient concentration in the animal's diet and determine if the current diet is sufficient to meet performance goals set by the producer. NUTBAL is a decision support system which models crude protein and net energy status of cattle, sheep and goats. This computerized decision aide lets the user enter their herd, environmental conditions, and establish weight performance targets. The information is then coupled with NIRS fecal analysis results from the Grazingland Animal Nutrition Lab, (GAN Lab), to produce an animal performance report and a least cost nutrition management plan.

Attention CSP Customers: The CSP Animal Nutrition Monitoring program was developed to allow producers to send in samples over the course of the year to receive relevant information on the quality of the forage being grazed by your livestock. We encourage you to work with your NRCS agent to devise an annual schedule for collecting and sending in samples, so that you do not send in all six of your samples at one time, especially near the end of the contract deadline. This will assist our lab in getting your sample information back in a timely manner for making management decisions. If you have questions about developing a sampling schedule, sample collection, or sample processing, please contact us. Thank you for your business.

Username:

Password:

Login (forgot credentials)

New Account

Click FORGOT CREDENTIALS.

ckland Research & Extension Center
azingland Animal Nutrition Lab
0 E. Blackland Road
mple, TX 76502-9822

Phone: (254)774-6134
Fax: (254)774-6150
Email: ganlab@brc.tamus.edu
http://cnrit.tamu.edu/nutbal_online

Request Login Credentials

You must call the lab if you did not provide an email address or the address provided is no longer valid.

First Name: Farmer

Last Name: Brown

Email: FarmerBrown@farmerbrown.com

This action will change your password!

Credentials will be sent to listed email address. Check your spam folder if you do not receive an email within a couple minutes.

Send Reminder | Cancel

Ordering kits and sampling scheduling

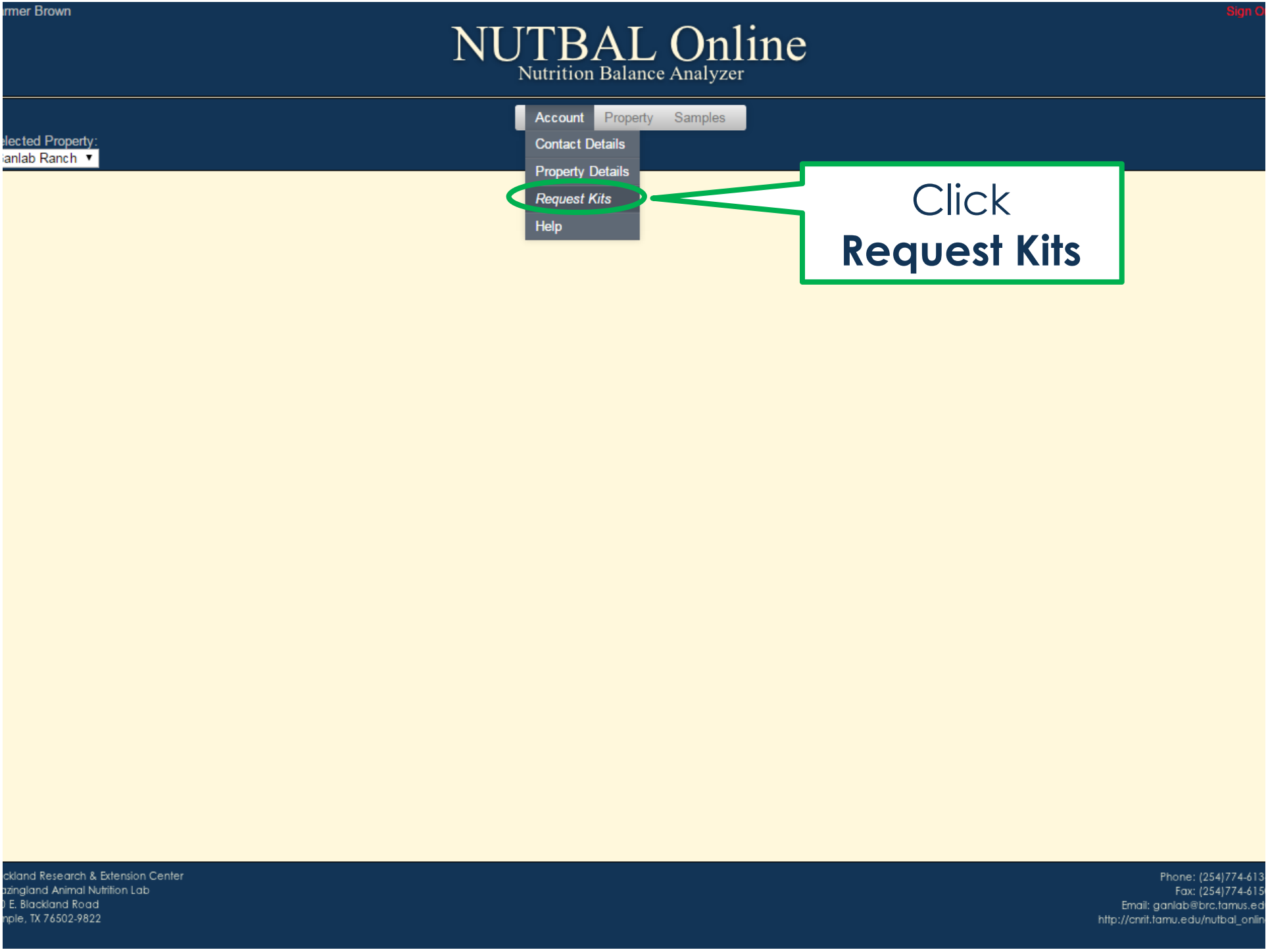
Kit Details

- Each kit includes:
  - 1 small Styrofoam cooler of size 7"x7"x8"
  - 1 freezer gel pack
  - 1 cardboard shipping box of size 9"x9"x9“
  - A zip-top bag with blanks to fill out to help identify your sample
  - Plain zip top bag
  - Disposable gloves
  - Disposable spoon
  - Labels for shipping

Kit Details

- Each cooler has an interior space of 4"x4"x4" and can hold 1 to 3 samples depending on the size of each sample.

- We can process Rush Requests for kits. These will be shipped via USPS Priority Mail. Additional shipping costs for rush service will be billed to you.


rmer Brown
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lected Property:
anlab Ranch
Contact Details
Property Details
Request Kits
Help
Click
Request Kits
ckland Research & Extension Center
azingland Animal Nutrition Lab
) E. Blackland Road
mple, TX 76502-9822
Phone: (254)774-613
Fax: (254)774-615
Email: ganlab@brc.tamus.ed
http://cnrit.tamu.edu/nutbal_onlin

Farmer Brown

Sign

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Kit Requests

Destination	Amount	Expected By	Shipping	Requested On	Processed On	Shipped On
Home	6	2014-06-06	Ground	2014-05-27	2014-05-28	2014-05-28

Requested Kits: 6

Ship to: Home

Rush Delivery

Requested Deliver By Date: yyyy-mm-dd

March 2016

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Clear Subr

Each kit
- 1 cardboard shipping
- 1 small styrofoam c
- 1 freeze
- return and sp

One kit has an interior space of 4"x4"x4" and can hold ze of each sample.
Rush Requests will be shipped USPS Priority Mail a be billed to you.
Further information regarding kits and sample collection can be found here.

Farmer Brown

Sign

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Kit Requests

Destination	Amount	Expected By	Shipping	Requested On	Processed On	Shipped On
Home	6	2014-06-06	Ground	2014-05-27	2014-05-28	2014-05-28

Requested Kits: 6

Ship to: Home

Rush Delivery

Requested Deliver By Date: yyyy-mm-dd

Clear Subr

March 2016

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

How many and to where?

Each kit
- 1 cardboard shipping
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- return and sp

One kit has an interior space of 4"x4"x4" and can hold ze of each sample.
Rush Requests will be shipped USPS Priority Mail and any additional shipping costs will be billed to you.
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Farmer Brown

Sign

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Kit Requests

Destination	Amount	Expected By	Shipping	Requested On	Processed On	Shipped On
Home	6	2014-06-06	Ground	2014-05-27	2014-05-28	2014-05-28

Requested Kits: 6

Ship to: Home

Choose One
Home
Ganlab Ranch

Requested Deliver By Date: mm-dd

March 2016

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

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Farmer Brown

Sign

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Kit Requests

Destination	Amount	Expected By	Shipping	Requested On	Processed On	Shipped On
Home	6	2014-06-06	Ground	2014-05-27	2014-05-28	2014-05-28

Requested Kits: 6

Ship to: Home

Rush Delivery

Requested Deliver By Date: yyyy-mm-dd

Clear Subr

March 2016

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

How many and to where?

Each kit
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One kit has an interior space of 4"x4"x4" and can hold ze of each sample.
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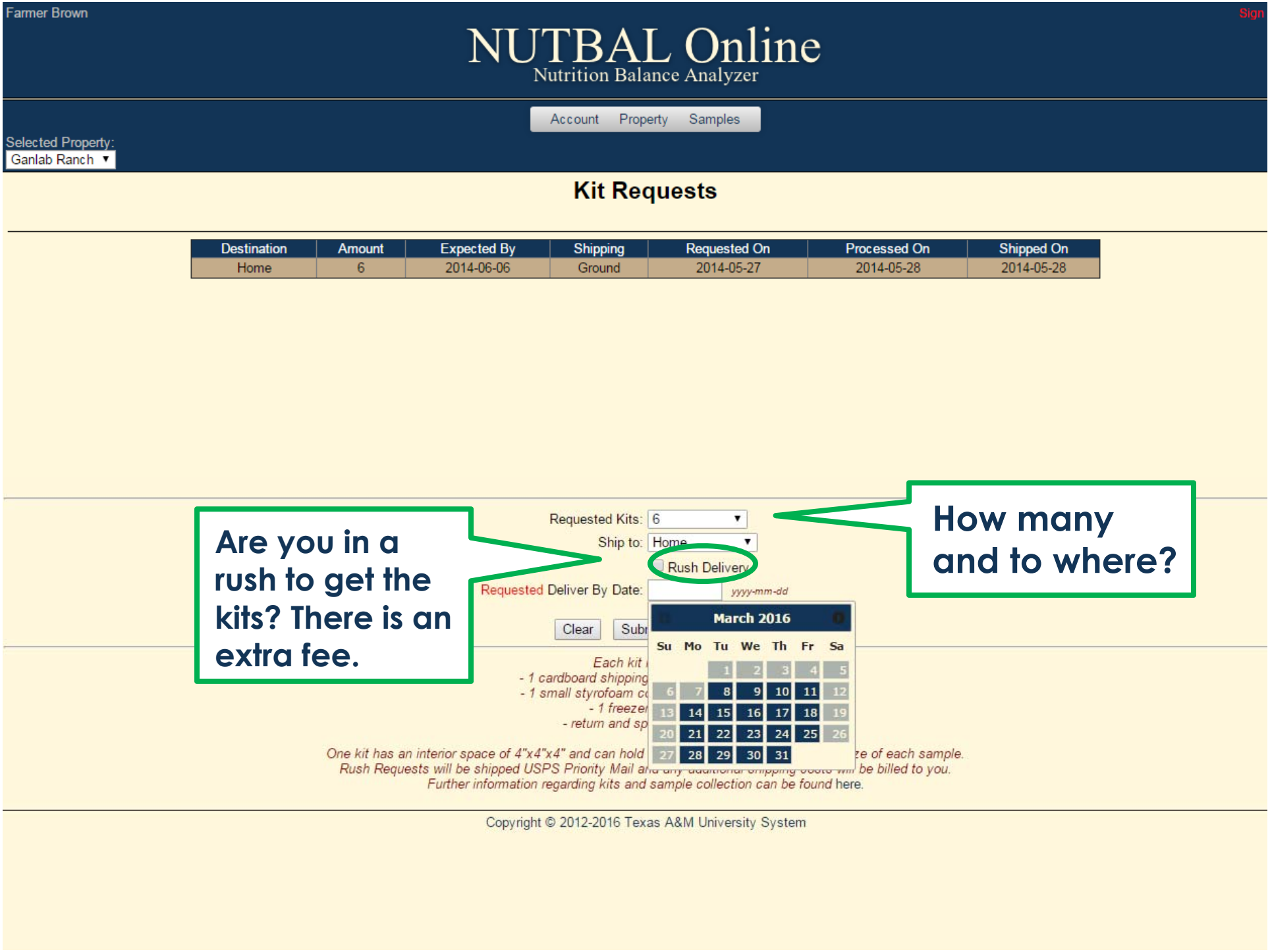
Farmer Brown
Sign
NUTBAL Online
Nutrition Balance Analyzer
Account
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Samples
Selected Property:
Ganlab Ranch
Kit Requests
Destination
Amount
Expected By
Shipping
Requested On
Processed On
Shipped On
Home
6
2014-06-06
Ground
2014-05-27
2014-05-28
2014-05-28
Are you in a rush to get the kits? There is an extra fee.
Requested Kits: 6
Ship to: Home
Rush Delivery
Requested Deliver By Date:
yyyy-mm-dd
March 2016
Su Mo Tu We Th Fr Sa
How many and to where?
Clear
Each kit
- 1 cardboard shipping
- 1 small styrofoam c
- 1 freeze
- return and sp
One kit has an interior space of 4"x4"x4" and can hold
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Rush Requests will be shipped USPS Priority Mail a
be billed to you.
Further information regarding kits and sample collection can be found here.
Copyright © 2012-2016 Texas A&M University System


Farmer Brown
Sign
NUTBAL Online
Nutrition Balance Analyzer
Account
Property
Samples
Selected Property:
Ganlab Ranch
Kit Requests
Destination
Amount
Expected By
Shipping
Requested On
Processed On
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6
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Ground
2014-05-27
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2014-05-28
Requested Kits: 6
Ship to: Home
Rush Delivery
Requested Deliver By Date:
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March 2016
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13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31
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Rush Requests will be shipped USPS Priority Mail a
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Are you in a rush to get the kits? There is an extra fee.
How many and to where?
Select date.
Copyright © 2012-2016 Texas A&M University System

Farmer Brown

Sign Ou

NUTBAL Online

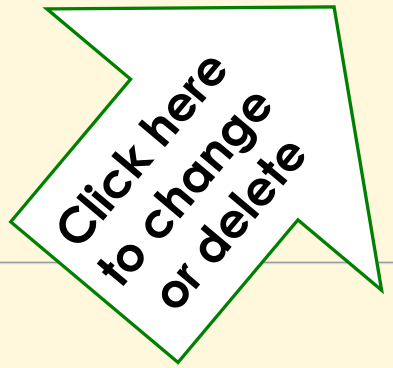
Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Kit Requests

Destination	Amount	Expected By	Shipping	Requested On	Processed On	Shipped On
Home	6	2016-03-08	Ground	2016-02-26		
Home	6	2014-06-06	Ground	2014-05-27	2014-05-28	2014-05-28



Requested Kits: Choose One

Ship to: Choose One

Rush Delivery

Requested Deliver By Date: yyyy-mm-dd

Clear Submit/Update

Each kit includes:
- 1 cardboard shipping box of size 9"x9"x9"
- 1 small styrofoam cooler of size 7"x7"x8"
- 1 freezer gel pack
- return and specimen labels

One kit has an interior space of 4"x4"x4" and can hold 1 to 3 samples depending on the size of each sample.
Rush Requests will be shipped USPS Priority Mail and any additional shipping costs will be billed to you.
Further information regarding kits and sample collection can be found here.

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Kit Requests

Destination	Amount	Expected By	Shipping	Requested On	Processed On	Shipped On
Home	6	2016-03-08	Ground	2016-02-26		
Home	6	2014-06-06	Ground	2014-05-27	2014-05-28	2014-05-28

Requested Kits: 6

Ship to: Home

Rush Delivery

Requested Deliver By Date: 2016-03-08 *yyyy-mm-dd*

Clear Submit/Update

Each kit includes:
- 1 cardboard shipping box of size 9"x9"x9"
- 1 small styrofoam cooler of size 7"x7"x8"
- 1 freezer gel pack
- return and specimen labels

One kit has an interior space of 4"x4"x4" and can hold 1 to 3 samples depending on t
Rush Requests will be shipped USPS Priority Mail and any additional shipping costs
Further information regarding kits and sample collection can be found here.

Once you have made the needed changes click Submit/Update

Sample Collecting and Shipping

Sampling Schedule

Six samples a year are required for the CSP contract
(Not to be sent all at once)

1. Establish a sampling schedule or collect samples according to changes in grazing rotation, season or drought.
   - You could sample every two months

   OR

   - As you rotate pastures

   OR

   - As the seasons change or during weather events that affect forage quality such as drought.

Sampling Schedule

Six samples a year are required for the CSP contract
(Not to be sent all at once)

2. Animals should be in the pasture for at least 48 hours prior to collecting the sample.

3. You should also suspend supplementation of the animals 48 hours prior to sample collection to ensure that the sample is reflective of the forage quality in the pasture

Collecting and Shipping

Collecting

- Protect your hands with disposable gloves provided or extra plastic bags. Please don't use the provided custom bags as hand protection.
- Locate 5 to 10 fresh manure piles.
  - **DO NOT** select manure piles from calves that are still nursing.
  - It is preferable that you see the actual defecation to ensure that the sample is as fresh as possible.
  - If this is not possible, collect manure from piles that are still moist and shows **NO** evidence of insects or bird scratching.

Collecting and Shipping

Collecting (continued)

- Using a disposable spoon, skim away the top layer of manure. (***Remember***: *manure must be as fresh as possible*.)
- Collect a heaping spoonful from each manure pile. There should be enough manure to fill half of a quart-size freezer bag.
- The sample should be put into provided plain zip top bag. Avoid picking up soil, rocks, excess plant material, or other containments when collecting the sample.
- Place the closed bag of fecal matter in to a second customized freezer bag and seal.

Collecting and Shipping

Collecting (continued)

- On the custom bag provided by lab, use a permanent marker to write your herd id, date collected and pasture name in the appropriate spaces on the bag.
- If you logged in your sample, on NUTBAL please include the lab number generated.
- Complete the paper sample sheet, unless logging in your sample on NUTBAL.

Collecting and Shipping

- If you have not logged in your sample online, it is important to place the completed GANLAB samples sheet in pocket of bag, especially if sending more than one sample per box.

- Place the sample(s) into the Styrofoam cooler with a gel pack and freeze overnight.

Collecting and Shipping

Shipping

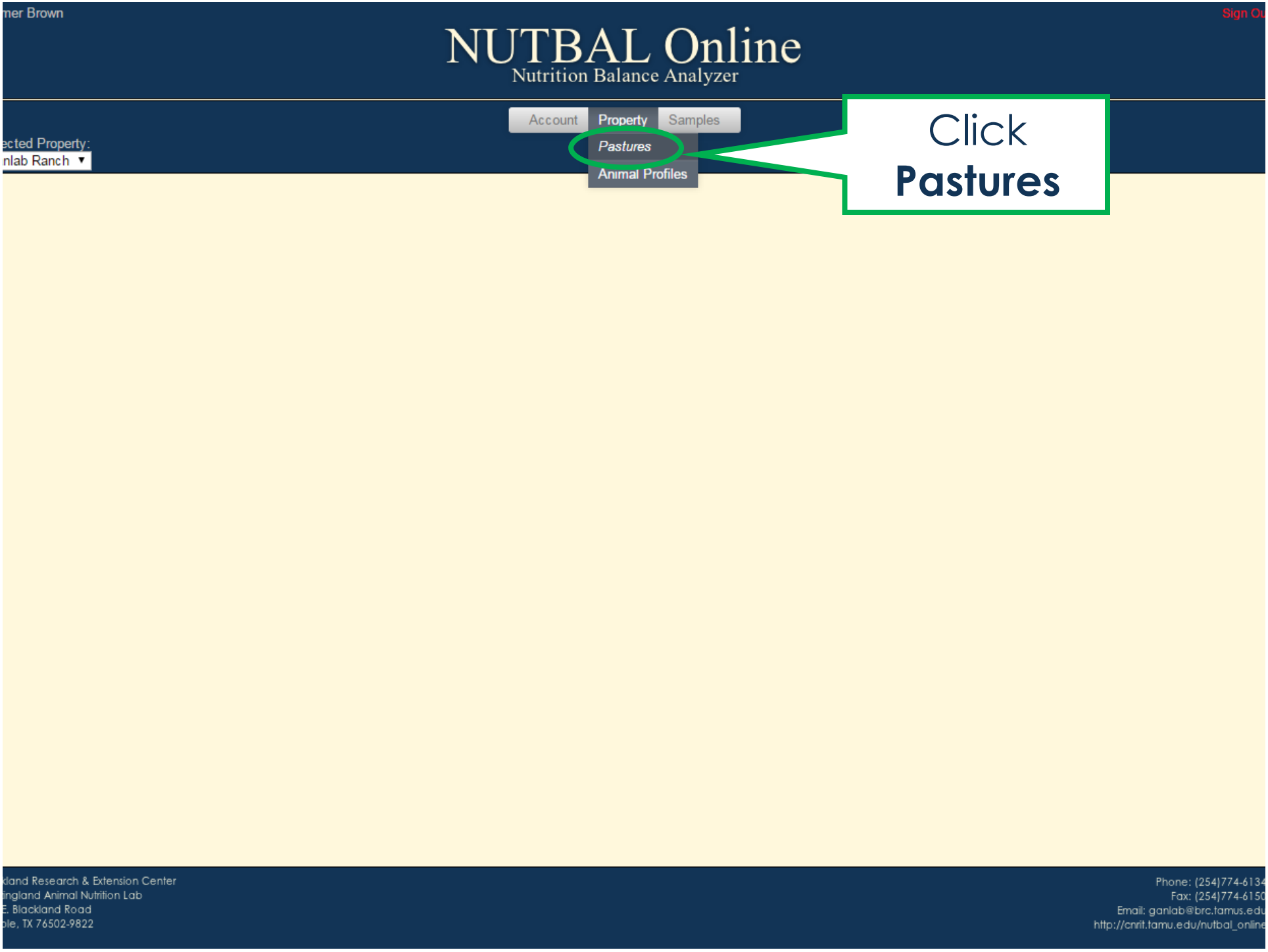
- Remove the fecal sample and Styrofoam cooler from freezer.
- Place the lid on cooler and then wrap packing tape around the cooler and lid seam to ensure that the lid is attached securely. (***Do not*** *tape across the top of the lid or use scotch tape.*)
- Place cooler into cardboard box and securely tape box closed. Make sure box is labeled with the shipping and "Exempt Animal Specimen" labels provided with your kit.
- Send the box to the GAN Lab using **two-day priority mail** via USPS, FedEx or UPS.

Entering Pasture and Animal Profiles into NUTBAL

Pastures

Pastures and Animal Profiles are specific to ranch and are reusable.

These do not have to be entered each time you collect a sample.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ingland Animal Nutrition Lab
E. Blackland Road
ple, TX 76502-9822
Phone: (254)774-6134
Fax: (254)774-6150
Email: ganlab@brc.tamus.edu
http://cnrit.tamu.edu/nutbal_online

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

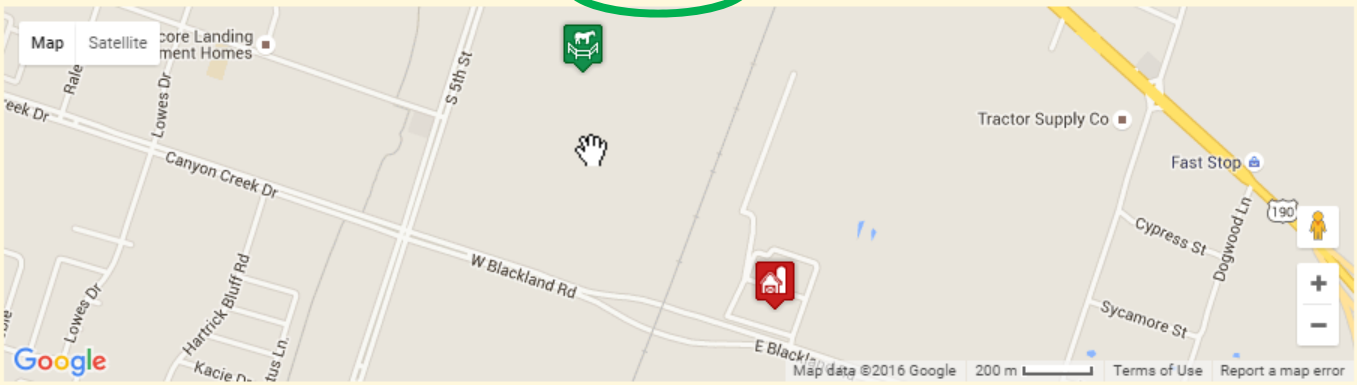
Pastures

Pastures are designed to be re-used. Multiple pastures may be added to any property.
Several model parameters are determined by the marker's location so a reasonable amount of accuracy is important.

Create a new pasture by clicking on the map where you want to mark the general location of the pasture, repositioning as needed
OR
Choose an existing pasture by selecting one from list or by clicking an existing green pasture marker on the map

Save Delete

Select Pastur: New Pasture



Pasture Name:

Description:

Size of Grazable Area (ac):

Harvest Use Efficiency: 60% *The amount of forage you plan on removing from the pasture.*

Vegetation Cover: Choose one

Activity/Terrain: Choose one

Latitude:

Longitude:

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

Pastures

Pastures are designed to be re-used. Multiple pastures may be added to any property.
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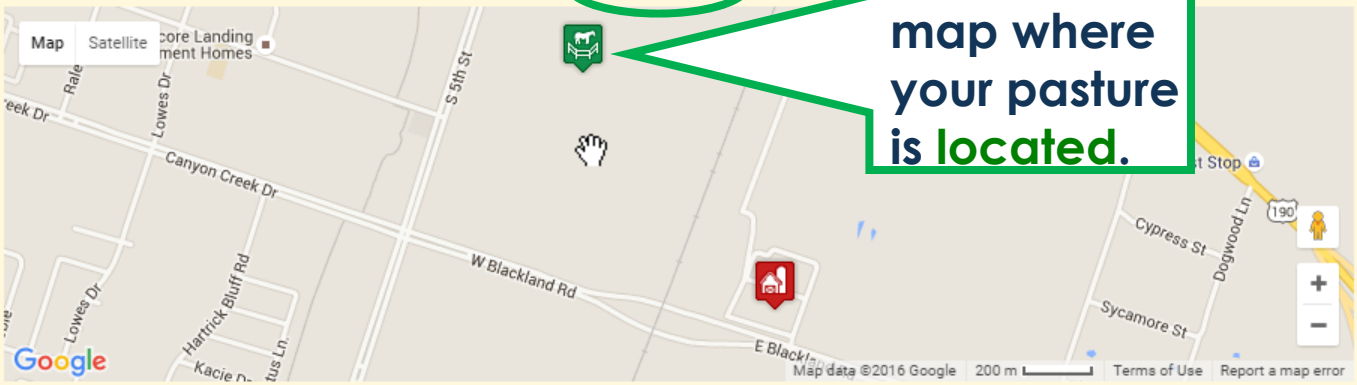
Select Pastur: New Pasture



Click in the map where your pasture is located.

Pasture Name:

Description:

Size of Grazable Area (ac):

Harvest Use Efficiency: 60% *The amount of forage you plan on removing from the pasture.*

Vegetation Cover: Choose one

Activity/Terrain: Choose one

Latitude:

Longitude:

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

Pastures

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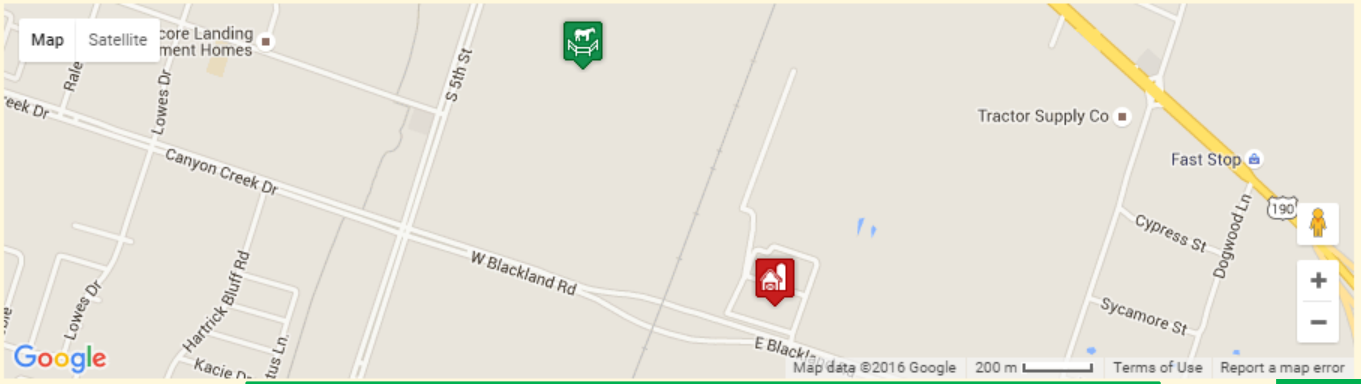
Several model parameters are determined by the marker's location so a reasonable amount of accuracy is important.

Create a new pasture by clicking on the map where you want to mark the general location of the pasture, repositioning as needed
OR
Choose an existing pasture by selecting one from list or by clicking an existing green pasture marker on the map

Save | Delete

Select Pasture: New Pasture



Pasture Name:

Description:

Size of Grazable Area (ac):

Harvest Use Efficiency: 60% *The amount of forage you plan on removing from the pasture.*

Vegetation Cover: Choose one

Activity/Terrain: Choose one

Latitude:

Longitude:

Enter information describing your Pasture

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

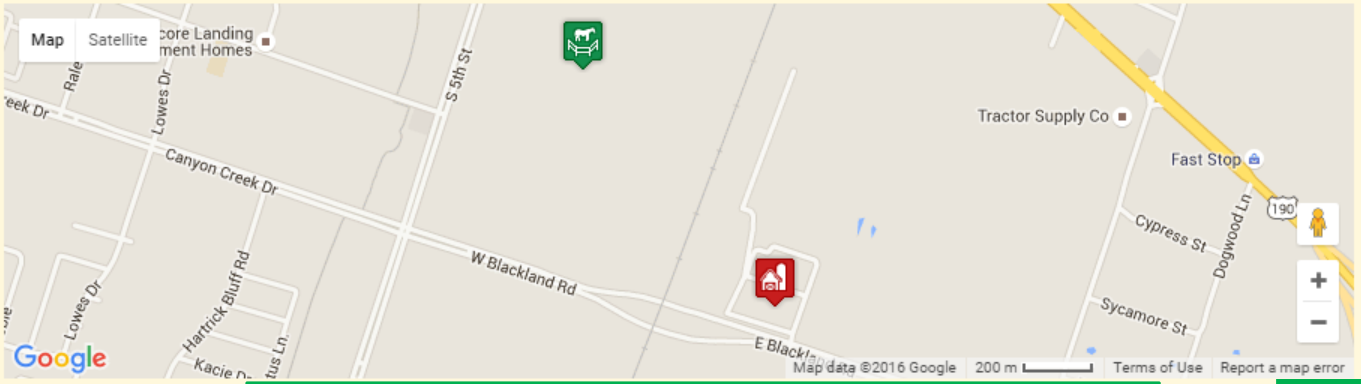
Pastures

Pastures are designed to be re-used. Multiple pastures may be added to any property.
Several model parameters are determined by the marker's location so a reasonable amount of accuracy is important.

Create a new pasture by clicking on the map where you want to mark the general location of the pasture, repositioning as needed
OR
Choose an existing pasture by selecting one from list or by clicking an existing green pasture marker on the map

Save Delete

Select Pasture: New Pasture



Pasture Name:

Description:

Size of Grazable Area (ac):

Harvest Use Efficiency: 60% *The amount of forage you plan on removing from the pasture.*

Vegetation Cover: Choose one

Activity/Terrain:

Latitude:

Longitude:

- Choose one
- Improved Pasture
- Native Range Tall Grass
- Native Range Intermediate Grass
- Native Range Short Grass
- Annual Grain

Enter information describing your Pasture

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

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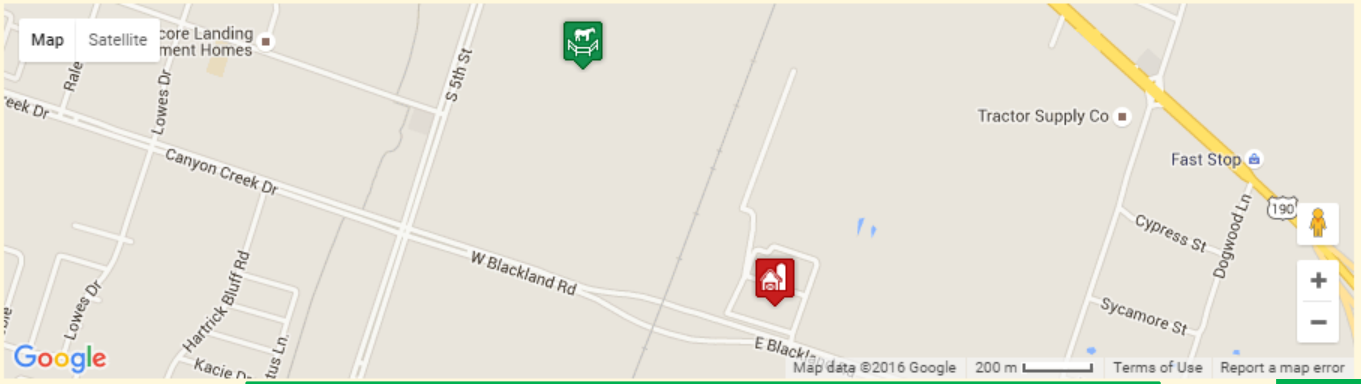
Save | Delete

Select Pasture: New Pasture



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Activity/Terrain: Choose one

Latitude:

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NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

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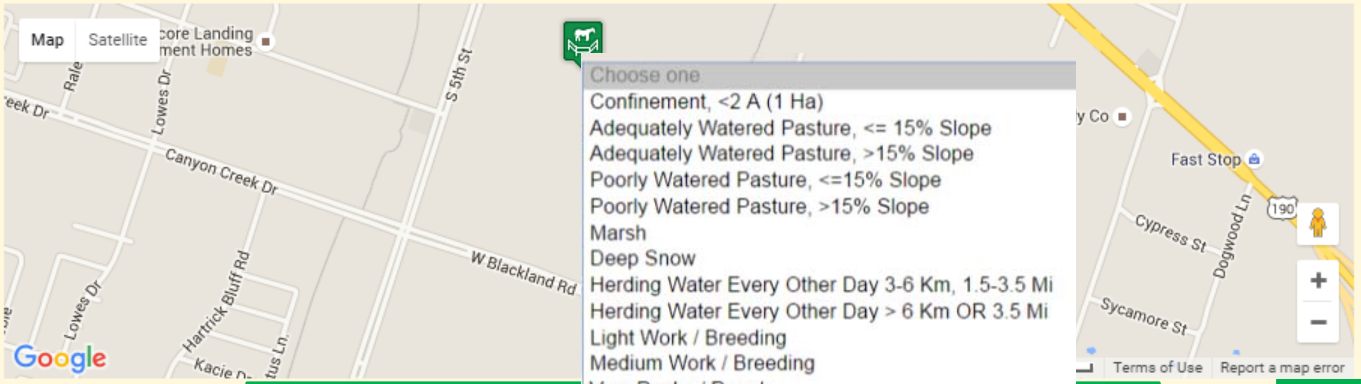
Save Delete

Select Pasture: New Pasture



Pasture Name:

Description:

Size of Grazable Area (ac):

Harvest Use Efficiency:

Vegetation Cover:

Activity/Terrain: Choose one

- Choose one
- Confinement, <2 A (1 Ha)
- Adequately Watered Pasture, <= 15% Slope
- Adequately Watered Pasture, >15% Slope
- Poorly Watered Pasture, <=15% Slope
- Poorly Watered Pasture, >15% Slope
- Marsh
- Deep Snow
- Herding Water Every Other Day 3-6 Km, 1.5-3.5 Mi
- Herding Water Every Other Day > 6 Km OR 3.5 Mi
- Light Work / Breeding
- Medium Work / Breeding
- Very Rocky / Rough
- Intense Work / Breeding
- Herding Daily Watering < 3 Km Or 1.5 Mi
- Herding Daily Watering 3-6 Km Or 1.5-3.5 Mi
- Herding Water Every Three Days > 6 Km Or 3.5 Mi
- Walk, Milk Parlor to Field < .5Mi (.3Km) 2X/D
- Walk, Milk Parlor to Field .5-1Mi (.3-.6Km) 2X/D
- Walk, Milk Parlor to Field > 1 Mi (.6 Km) 2X/D

Latitude:

Longitude:

Enter information describing your Pasture

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

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OR
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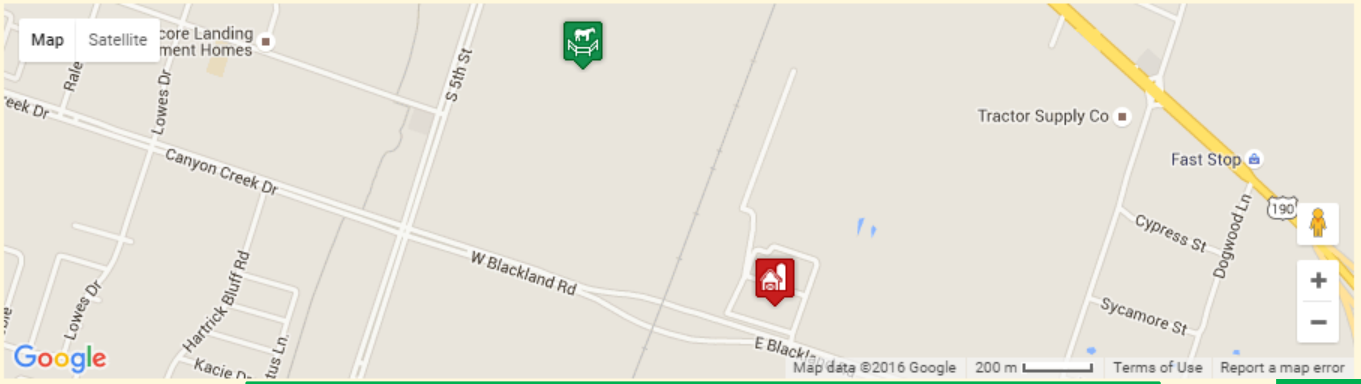
Save | Delete

Select Pasture: New Pasture



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Description:

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Harvest Use Efficiency: 60% *The amount of forage you plan on removing from the pasture.*

Vegetation Cover: Choose one

Activity/Terrain: Choose one

Latitude:

Longitude:

Enter information describing your Pasture

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

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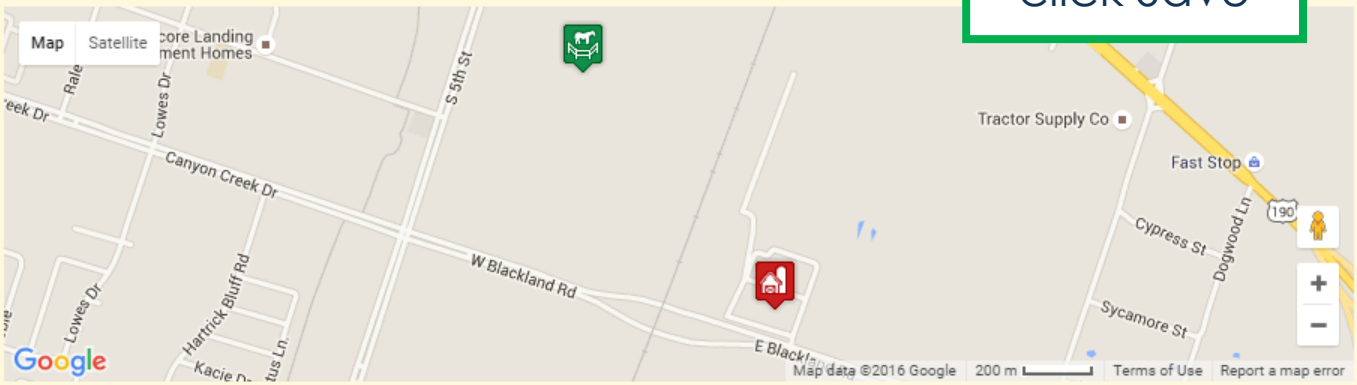
Create a new pasture by clicking on the map where you want to mark the general location of the p
OR
Choose an existing pasture by selecting one from list or by clicking an existing green pas

Save | Delete

When finished, click Save

Select Pasture: New Pasture



Pasture Name:

Description:

Size of Grazable Area (ac):

Harvest Use Efficiency: 60% *The amount of forage you plan on removing from the pasture.*

Vegetation Cover: Choose one

Activity/Terrain: Choose one

Latitude:

Longitude:

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

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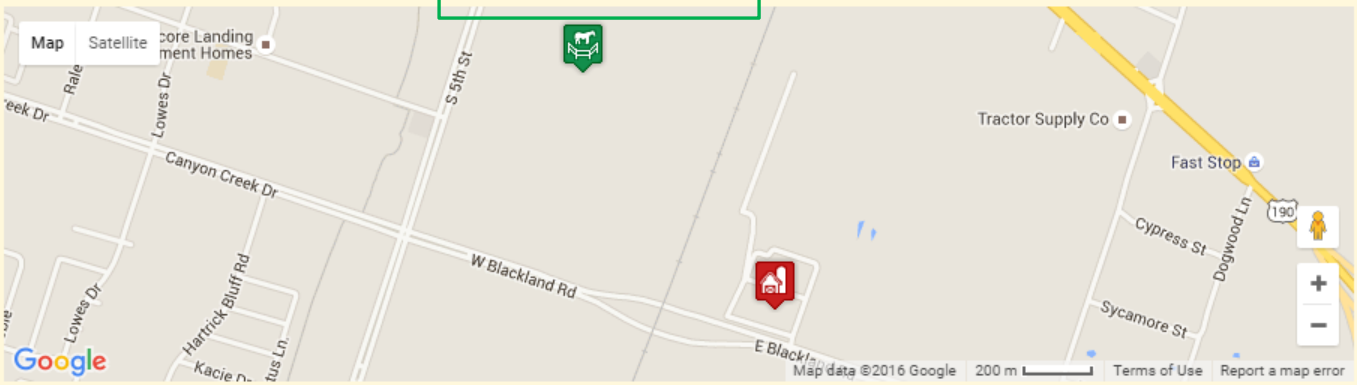
Save Delete

Select Pasture: New Pasture



Pasture Name:

Description:

Size of Grazable Area (ac):

Harvest Use Efficiency: 60% *The amount of forage you plan on removing from the pasture.*

Vegetation Cover: Choose one

Activity/Terrain: Choose one

Latitude:

Longitude:

Animal Profiles

Animal Profiles

- Animal profiles allow you to enter specific information about your livestock herd composition.
  - What Breed?
  - What Age?
  - Cows, Bulls, Heifers, Steers, or Calves?
  - Are cows lactating?
- Each of these are need in order to assess how much forage the animal will eat and how to partition the nutrition to maintaining weight, gaining weight, and/or milk production
- Profiles are designed to be re-used, enabling you to track the progress of your animals over time.

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  - Cows, Bulls, Heifers, Steers, or Calves?
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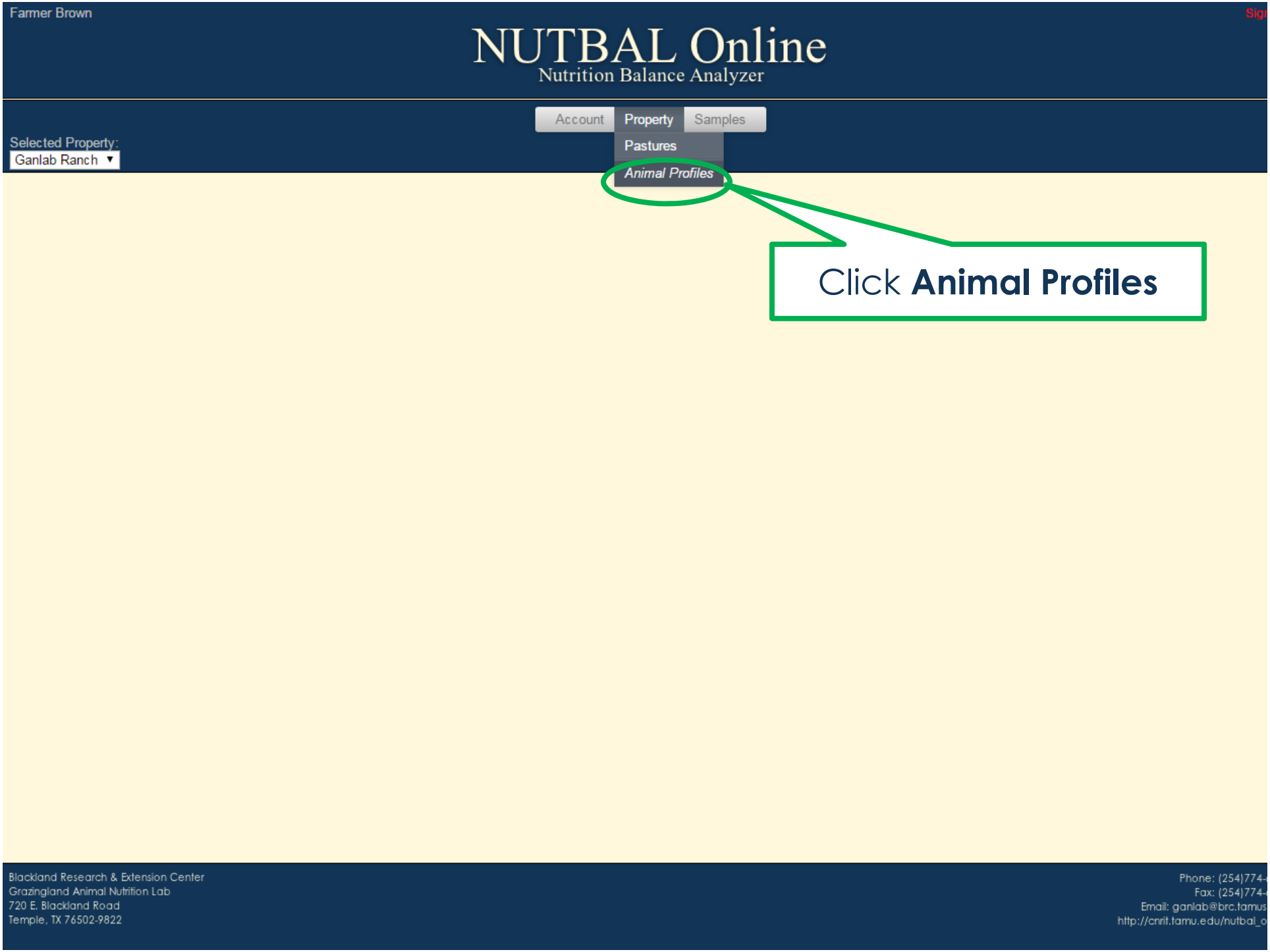
- Profiles are designed to be re-used, enabling you to track the progress of your animals over time.

Animal Profiles

- To provide more accurate results, a profile should be of a single breed, type (male, female, castrated, spayed), and their ages should span no more than 12 months. Multiple profiles can be added to a sample description.

- In the profile description, you can list information on how to identify the herd. This is information that is not necessary for the lab but will help you identify your herd. Ex. Todd's cows

- Changes to a profile will affect all samples (past, present, and future) that use that profile. You will need to create new profiles if following same animals over time


Farmer Brown
Sign
NUTBAL Online
Nutrition Balance Analyzer
Account
Property
Samples
Pastures
Animal Profiles
Selected Property:
Ganlab Ranch
Click Animal Profiles
Blackland Research & Extension Center
Grazingland Animal Nutrition Lab
720 E. Blackland Road
Temple, TX 76502-9822
Phone: (254)774-
Fax: (254)774-
Email: ganlab@brc.tamus
http://cnrit.tamu.edu/nutbal_o

Farmer Brown

Sign Out

NUTBAL Online
Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Animal Profiles

Profiles are designed to be re-used, enabling you to track their progress over time.
A profile should be of a single breed, type (male, female, castrated, spayed), and their ages should span no more than 12 months.

Multiple profiles can be added to a sample description.
Number of head can be altered on the sample description.

Changes to a profile may affect any samples that use that profile and may void existing reports.

Kind	Profile *(Gender Breed DOB UniqueID)*	Age *(months)*
Cattle	Female Angus 2009-04 10647	82
Cattle	Female Hereford -Med Frame 2010-04 10648	70
Cattle	Female Texas Longhorn 2010-08 20874	66

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Save Profile | Delete Profile | Clear Fields

Created:

Profile Name: New Profile

(optional) Description:

Animal Kind: Choose one

Animal Gender: Choose one

Animal Breed: Choose one

Number of Head:

Average Birthdate of Animals: Year Month

Age at time of sampling may be different than age shown

BCS System:

Show Advanced Options

This should be your identifier

Average birthday is of all the animals in the herd except nursing animals.

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Animal Profiles

Profiles are designed to be re-used, enabling you to track their progress over time.
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Cattle	Female Angus 2009-04 10647	82
Cattle	Female Hereford -Med Frame 2010-04 10648	70
Cattle	Female Texas Longhorn 2010-08 20874	66

IF your profiles shows up here it was saved successfully

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Save Profile | Delete Profile | Clear Fields

Created:

Profile Name: New Profile

(optional) Description:

Animal Kind: Choose one

Animal Gender: Choose one

Animal Breed: Choose one

Number of Head:

Average Birthdate of Animals: Year Month

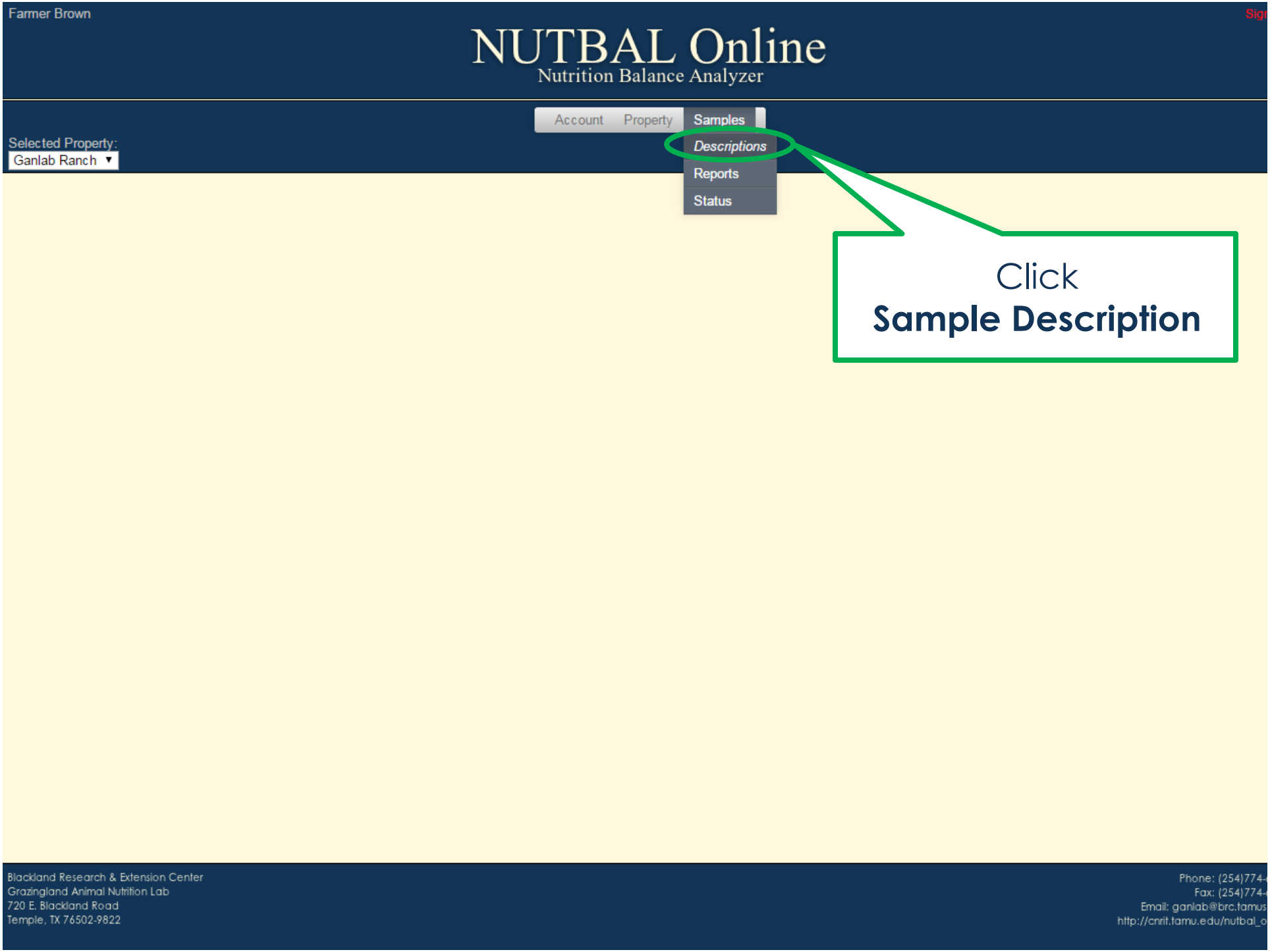
Age at time of sampling may be different than age shown

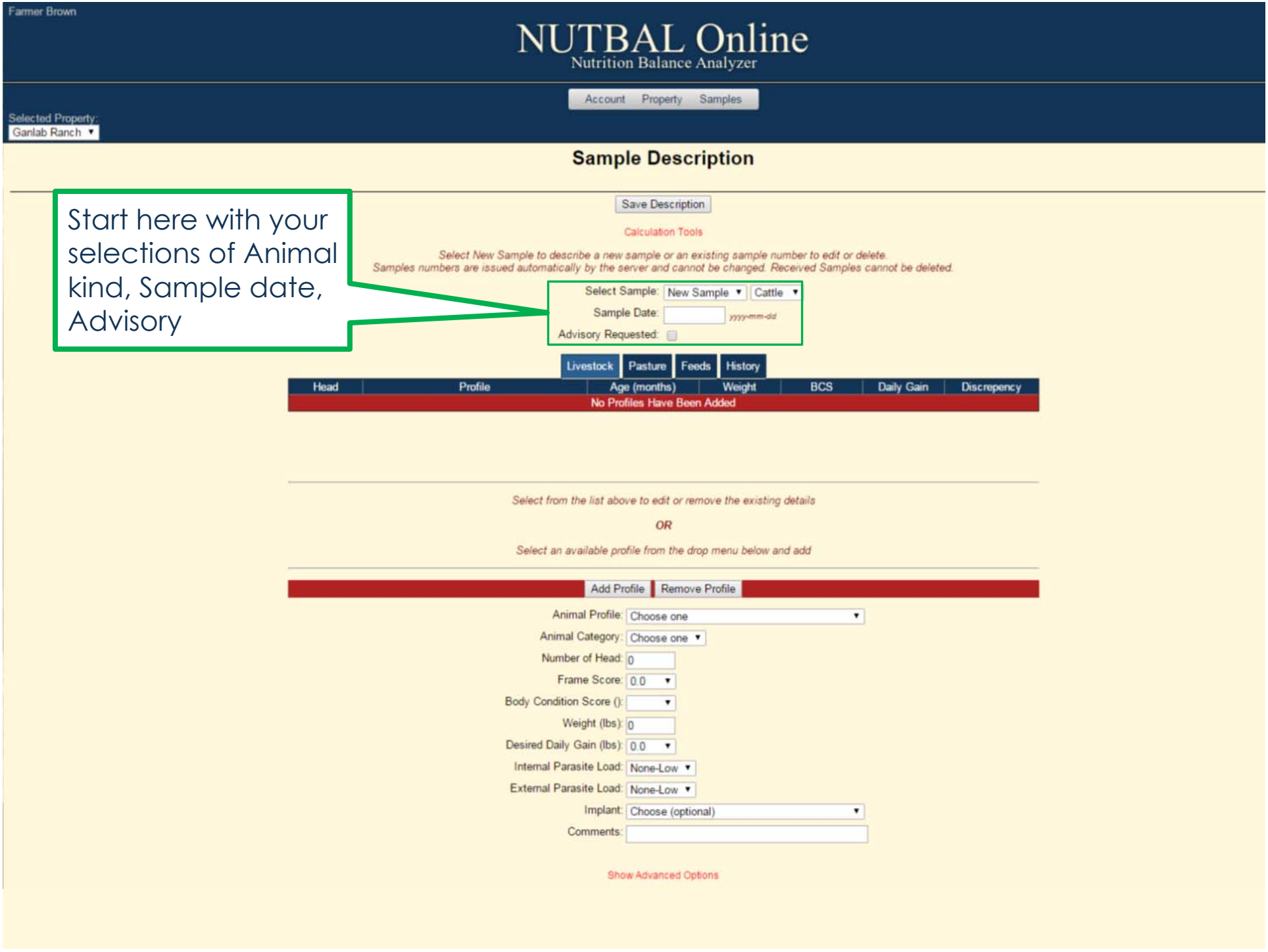
BCS System:

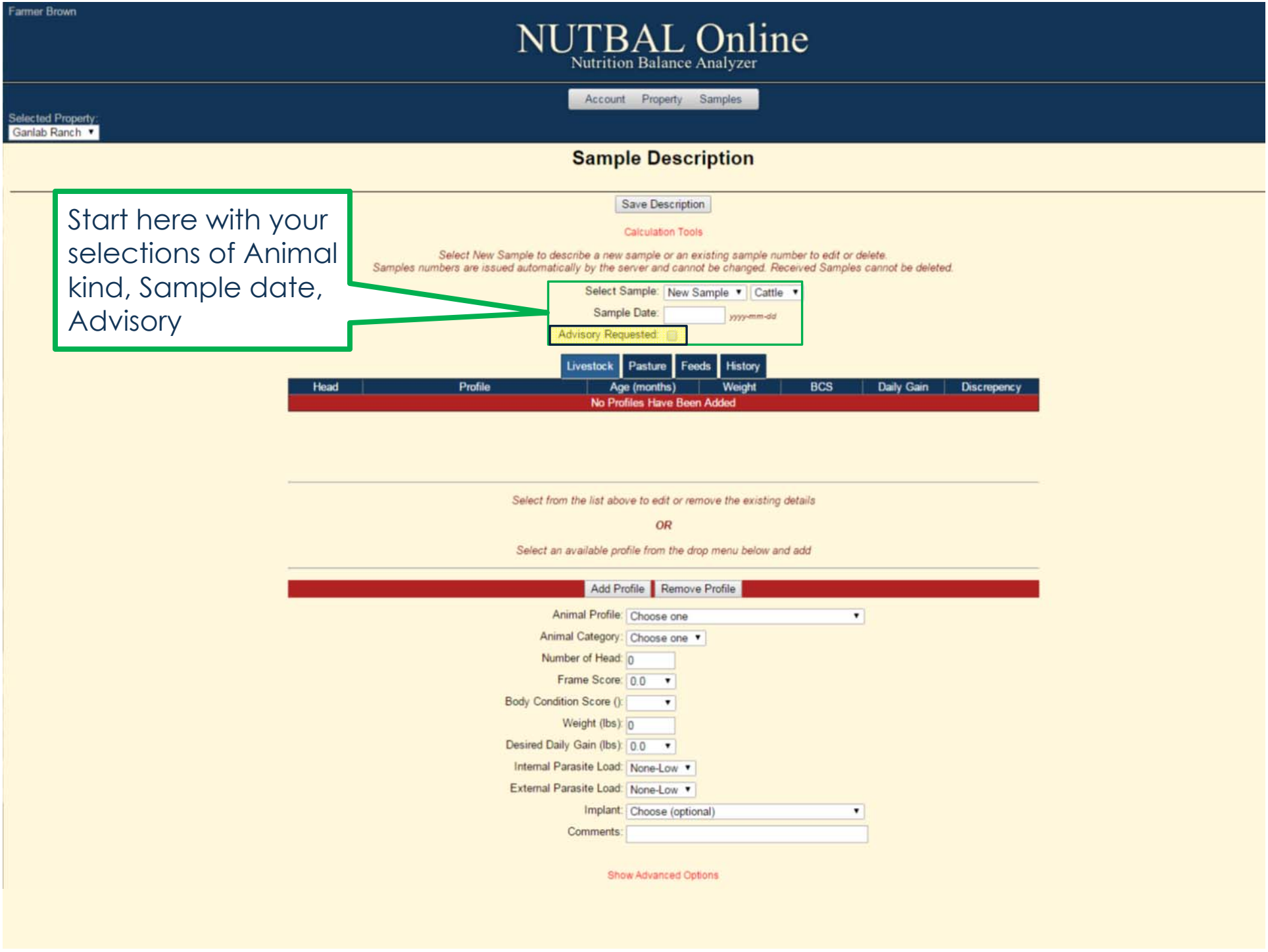
Show Advanced Options

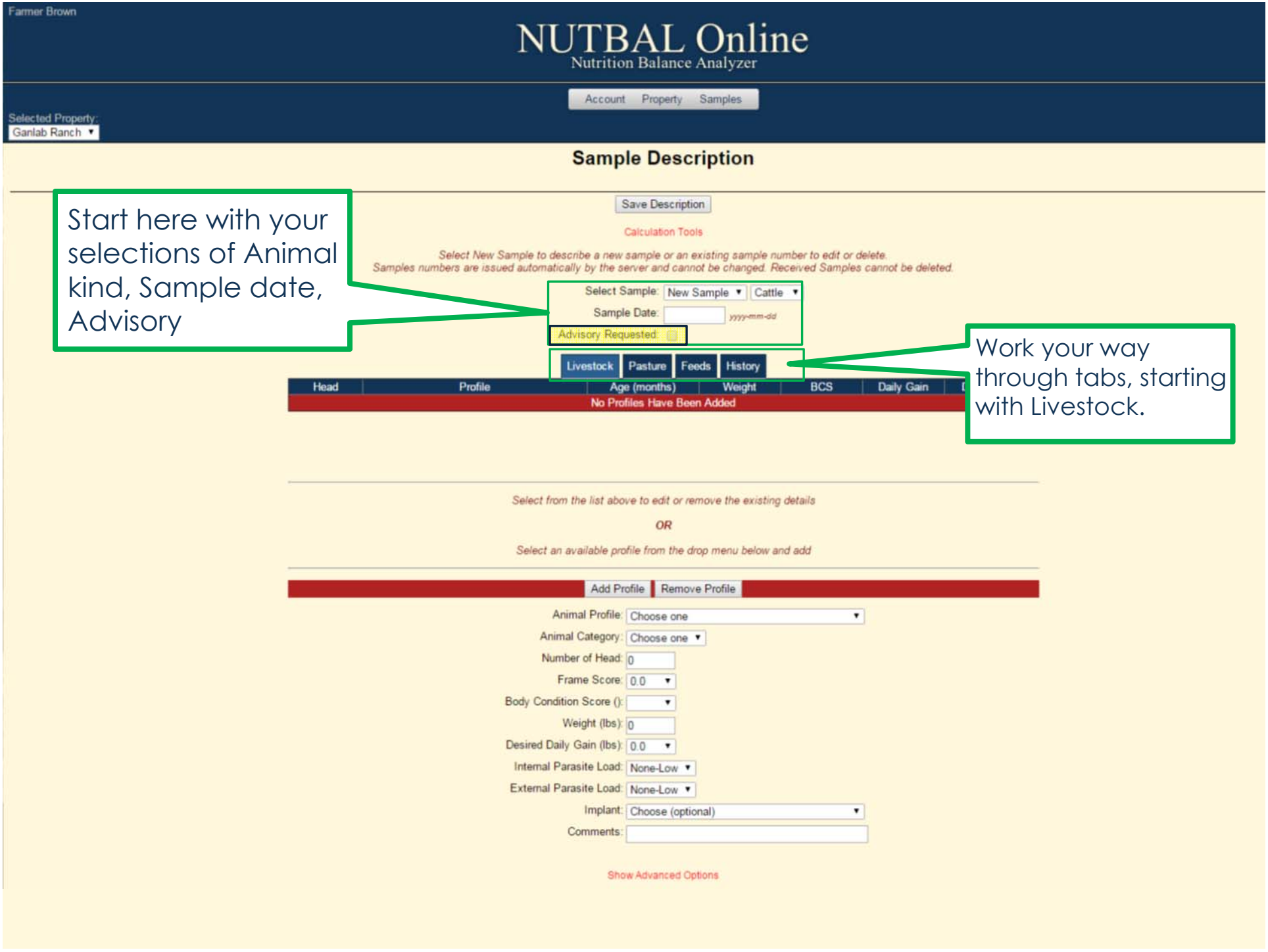
Entering Individual Sample Info into NUTBAL

Sample Description


Farmer Brown
Sign
NUTBAL Online
Nutrition Balance Analyzer
Account
Property
Samples
Descriptions
Reports
Status
Selected Property:
Ganlab Ranch
Click
Sample Description
Blackland Research & Extension Center
Grazingland Animal Nutrition Lab
720 E. Blackland Road
Temple, TX 76502-9822
Phone: (254)774-
Fax: (254)774-
Email: ganlab@brc.tamus
http://cnrit.tamu.edu/nutbal_o


Farmer Brown
NUTBAL Online
Nutrition Balance Analyzer
Account
Property
Samples
Selected Property:
Ganlab Ranch
Sample Description
Start here with your selections of Animal kind, Sample date, Advisory
Save Description
Calculation Tools
Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.
Select Sample: New Sample Cattle
Sample Date: yyyy-mm-dd
Advisory Requested:
Livestock
Pasture
Feeds
History
Head
Profile
Age (months)
Weight
BCS
Daily Gain
Discrepency
No Profiles Have Been Added
Select from the list above to edit or remove the existing details
OR
Select an available profile from the drop menu below and add
Add Profile
Remove Profile
Animal Profile: Choose one
Animal Category: Choose one
Number of Head: 0
Frame Score: 0.0
Body Condition Score ():
Weight (lbs): 0
Desired Daily Gain (lbs): 0.0
Internal Parasite Load: None-Low
External Parasite Load: None-Low
Implant: Choose (optional)
Comments:
Show Advanced Options


Farmer Brown
NUTBAL Online
Nutrition Balance Analyzer
Account
Property
Samples
Selected Property:
Ganlab Ranch
Sample Description
Start here with your selections of Animal kind, Sample date, Advisory
Save Description
Calculation Tools
Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.
Select Sample:
New Sample
Cattle
Sample Date:
yyyy-mm-dd
Advisory Requested:
Livestock
Pasture
Feeds
History
Head
Profile
Age (months)
Weight
BCS
Daily Gain
Discrepency
No Profiles Have Been Added
Select from the list above to edit or remove the existing details
OR
Select an available profile from the drop menu below and add
Add Profile
Remove Profile
Animal Profile:
Choose one
Animal Category:
Choose one
Number of Head:
0
Frame Score:
0.0
Body Condition Score ():
Weight (lbs):
0
Desired Daily Gain (lbs):
0.0
Internal Parasite Load:
None-Low
External Parasite Load:
None-Low
Implant:
Choose (optional)
Comments:
Show Advanced Options


Farmer Brown
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Nutrition Balance Analyzer
Account
Property
Samples
Selected Property:
Ganlab Ranch
Sample Description
Start here with your selections of Animal kind, Sample date, Advisory
Save Description
Calculation Tools
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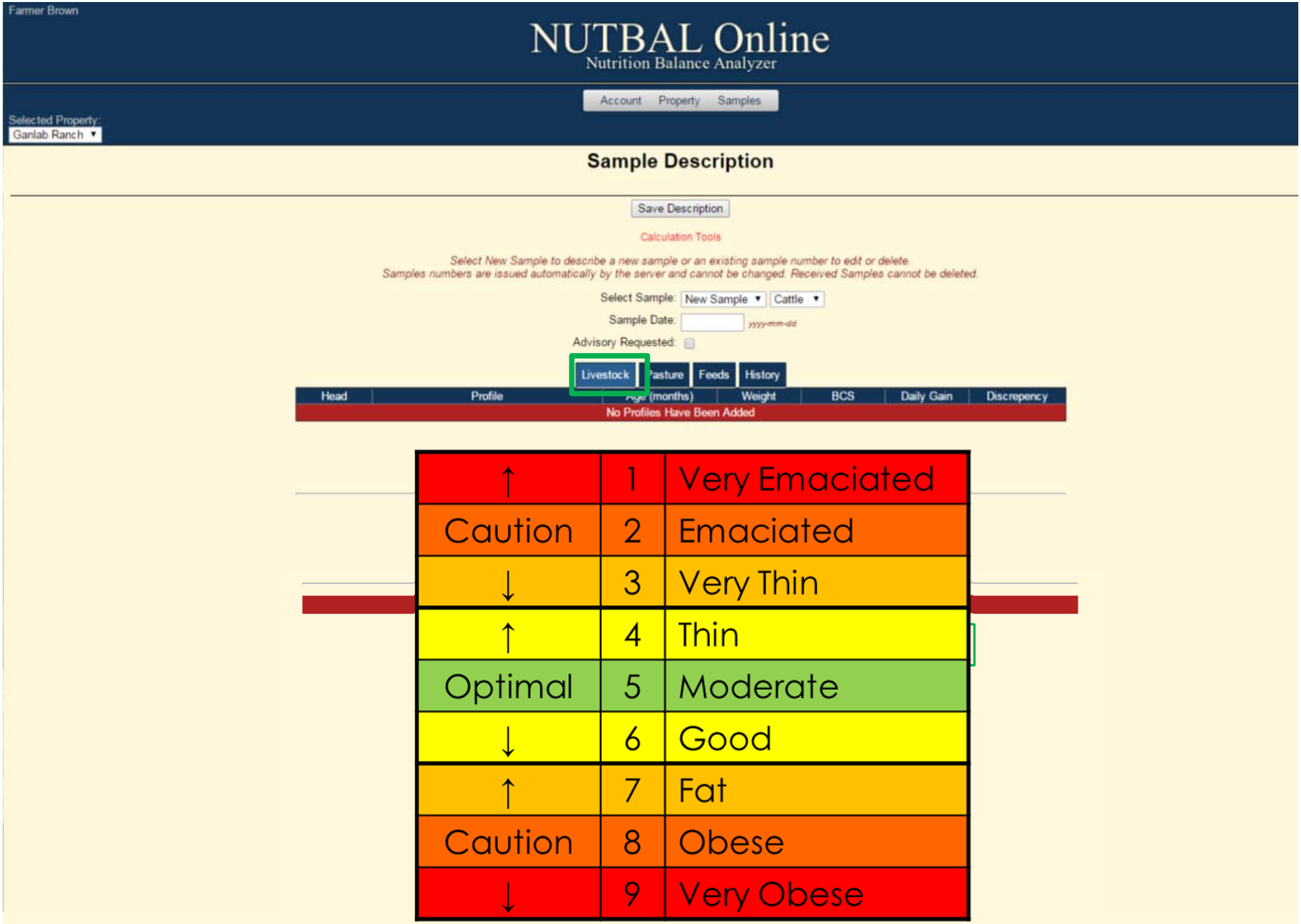
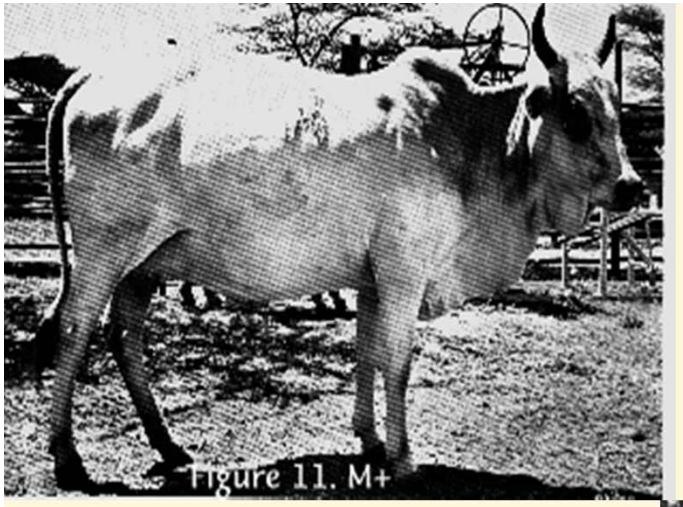
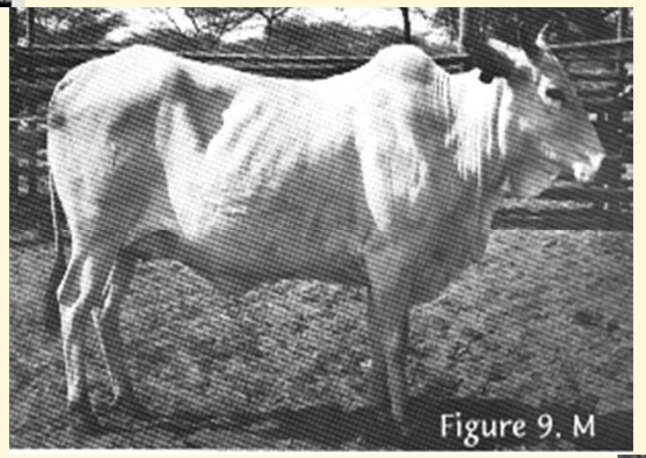
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.
Select Sample:
New Sample
Cattle
Sample Date:
yyyy-mm-dd
Advisory Requested:
Livestock
Pasture
Feeds
History
Work your way through tabs, starting with Livestock.
Head
Profile
Age (months)
Weight
BCS
Daily Gain
No Profiles Have Been Added
Select from the list above to edit or remove the existing details
OR
Select an available profile from the drop menu below and add
Add Profile
Remove Profile
Animal Profile:
Choose one
Animal Category:
Choose one
Number of Head:
0
Frame Score:
0.0
Body Condition Score ():
Weight (lbs):
0
Desired Daily Gain (lbs):
0.0
Internal Parasite Load:
None-Low
External Parasite Load:
None-Low
Implant:
Choose (optional)
Comments:
Show Advanced Options



↑	1	Very Emaciated
Caution	2	Emaciated
↓	3	Very Thin
↑	4	Thin
Optimal	5	Moderate
↓	6	Good
↑	7	Fat
Caution	8	Obese
↓	9	Very Obese

Body Condition





+

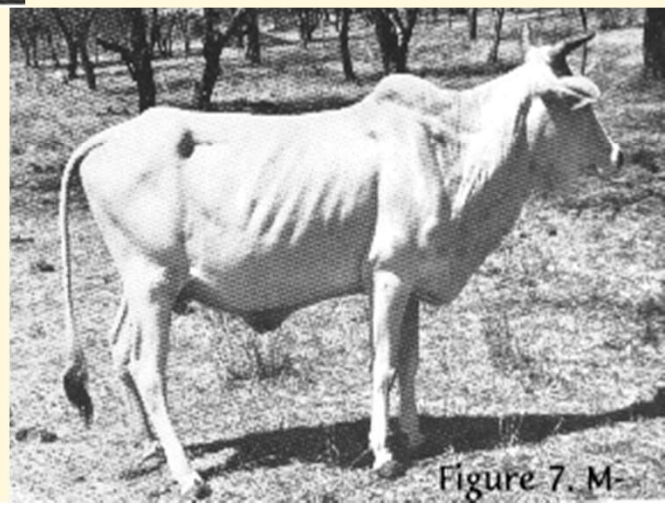
TREND ?

–

…85-98 lb per BCS
(1-9 system)

… a reflection of past nutrition

…critical for goal setting



Entering Individual Sample Info

- Effects on Nutrition Requirement
  - Age: Young vs Mature
  - Gestation: heavy bred or Peak Lactation vs Open and Dry
  - Breed: Tropical vs Continental
- Body Condition Scoring
  - Long Version: http://cnrit.tamu.edu/ganlab/pagesmith/10
  - Short version

↑	1	Very Emaciated
Caution	2	Emaciated
↓	3	Very Thin
↑	4	Thin
Optimal	5	Moderate
↓	6	Good
↑	7	Fat
Caution	8	Obese
↓	9	Very Obese

Provided by Dalton Merz with NRCS in Texas

SYSTEMATIC WAY TO LEARN BODY CONDITION SCORING OF BEEF COWS

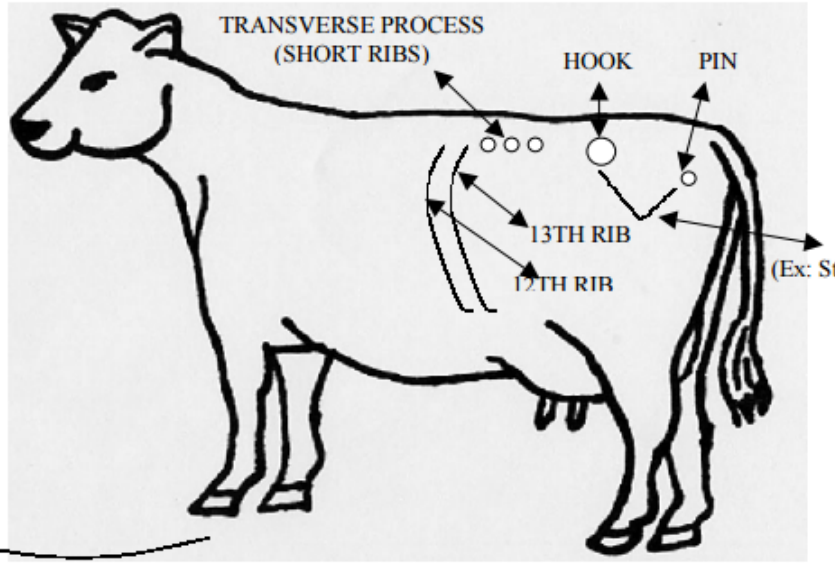
(Cows need to be at a normal stance)

STEP 1
LOOK AT THE LAST TWO RIBS (12TH & 13TH RIB)
IF YOU SEE THE 12TH & 13TH RIB, IT IS BELOW **5**.
IF YOU DO NOT SEE THE 12TH & 13TH IT IS **5** OR ABOVE.

STEP 2
IF YOU SEE THE TRANSVERSE PROCESS (SHORT RIB),
IT IS **3** OR LESS.

STEP 3
IF YOU SEE A VERY STRONG V, IT IS A **1** OR **2**.

STEP 4
LOOK BETWEEN THE HOOK AND PINS:



IF A **6**, HAS A SHALLOW U

IF A **5**, HAS A STRONG U (SHALLOW UMBRELLA)

IF A **4**, HAS V SHAPE
(IF 12TH & 13TH RIB IS SHOWING, THE FORRIBS ARE NOT NOTICABLE AND THE TRANSVERSE PROCESS, OR THE SHORT RIBS ARE NOT NOTICABLE.)

IF A **3**, HAS A STRONG V
(WHERE THE TRANSVERSE PROCESSES ARE SLIGHTLY NOTICABLE)

IF A **2**, HAS A VERY STRONG V

Score System	Condition Score								
1 - 9 (Beef)	1	2	3	4	5	6	7	8	9
1 - 5 (Dairy)	1	1.5	2	2.5	3	3.5	4	4.5	5

STEP 5-DETERMINE TAILHEAD FATNESS BYGETTING REAR VIEW & LOOKING DOWN THE BACK:

IF A **5**
(TEPEE EFFECT FROM REAR)

IF A **6**
(FLAT ACROSS THE BACK)

IF A **7**
(INDENTURE ACROSS THE BACK)

IF A **8**
(DEEP INDENTURE ACROSS THE BACK)
(PATCHES OF FAT ACROSS THE SIDE)

IF A **9** (EXTRA FAT, TROUBLE WALKING)

Farmer Brown

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: yyyy-mm-dd

Advisory Requested:

Livestock | Pasture | Feeds | History

Head	Profile	Age (months)	Weight	BCS	Daily Gain	Discrepency
No Profiles Have Been Added						

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Profile | Remove Profile

Animal Profile: Choose one

Animal Category: Choose one

Number of Head: 0

Frame Score: 0.0

Body Condition Score ():

Weight (lbs): 0

Desired Daily Gain (lbs): 0.0

Internal Parasite Load: None-Low

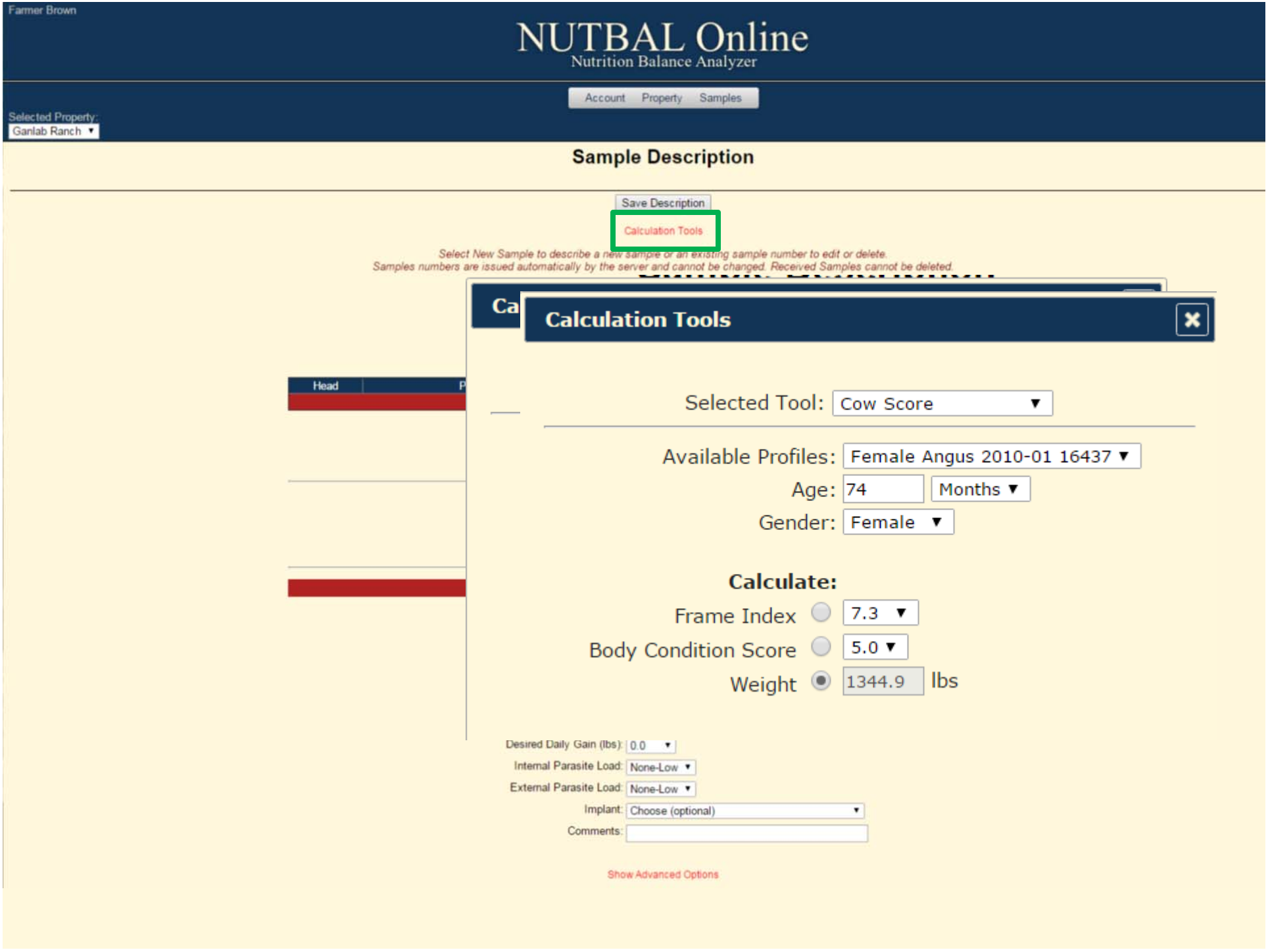
External Parasite Load: None-Low

Implant: Choose (optional)

Comments:

Show Advanced Options


Farmer Brown
NUTBAL Online
Nutrition Balance Analyzer
Account
Property
Samples
Selected Property:
Ganlab Ranch
Sample Description
Save Description
Calculation Tools
Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.
Head
Calculation Tools
Selected Tool: Cow Score
Available Profiles: Choose one (optional)
Age: 0 Months
Gender: Female
Calculate:
Frame Index 5.0
Body Condition Score 5.0
Weight 0.00 lbs
Desired Daily Gain (lbs): 0.0
Internal Parasite Load: None-Low
External Parasite Load: None-Low
Implant: Choose (optional)
Comments:
Show Advanced Options


Farmer Brown
NUTBAL Online
Nutrition Balance Analyzer
Account
Property
Samples
Selected Property:
Ganlab Ranch
Sample Description
Save Description
Calculation Tools
Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.
Head
Calculation Tools
Selected Tool: Cow Score
Available Profiles: Female Angus 2010-01 16437
Age: 74 Months
Gender: Female
Calculate:
Frame Index 7.3
Body Condition Score 5.0
Weight 1344.9 lbs
Desired Daily Gain (lbs): 0.0
Internal Parasite Load: None-Low
External Parasite Load: None-Low
Implant: Choose (optional)
Comments:
Show Advanced Options

Farmer Brown

NUTBAL Online
Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: yyyy-mm-dd

Advisory Requested:

Livestock | Pasture | Feeds | History

Head	Profile	Age (months)	Weight	BCS	Daily Gain	Discrepency
No Profiles Have Been Added						

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Profile | Remove Profile

Animal Profile: Female Angus 2009-04 10647 — *83 months old*

Animal Category: Mature

Number of Head: 50

Frame Score: 4.0

Body Condition Score (1-9): 5.0

Weight (lbs): 1102.3 — *Standard Reference Weight = 1102 lbs*

Days Lactating: 0

Days Pregnant: 0

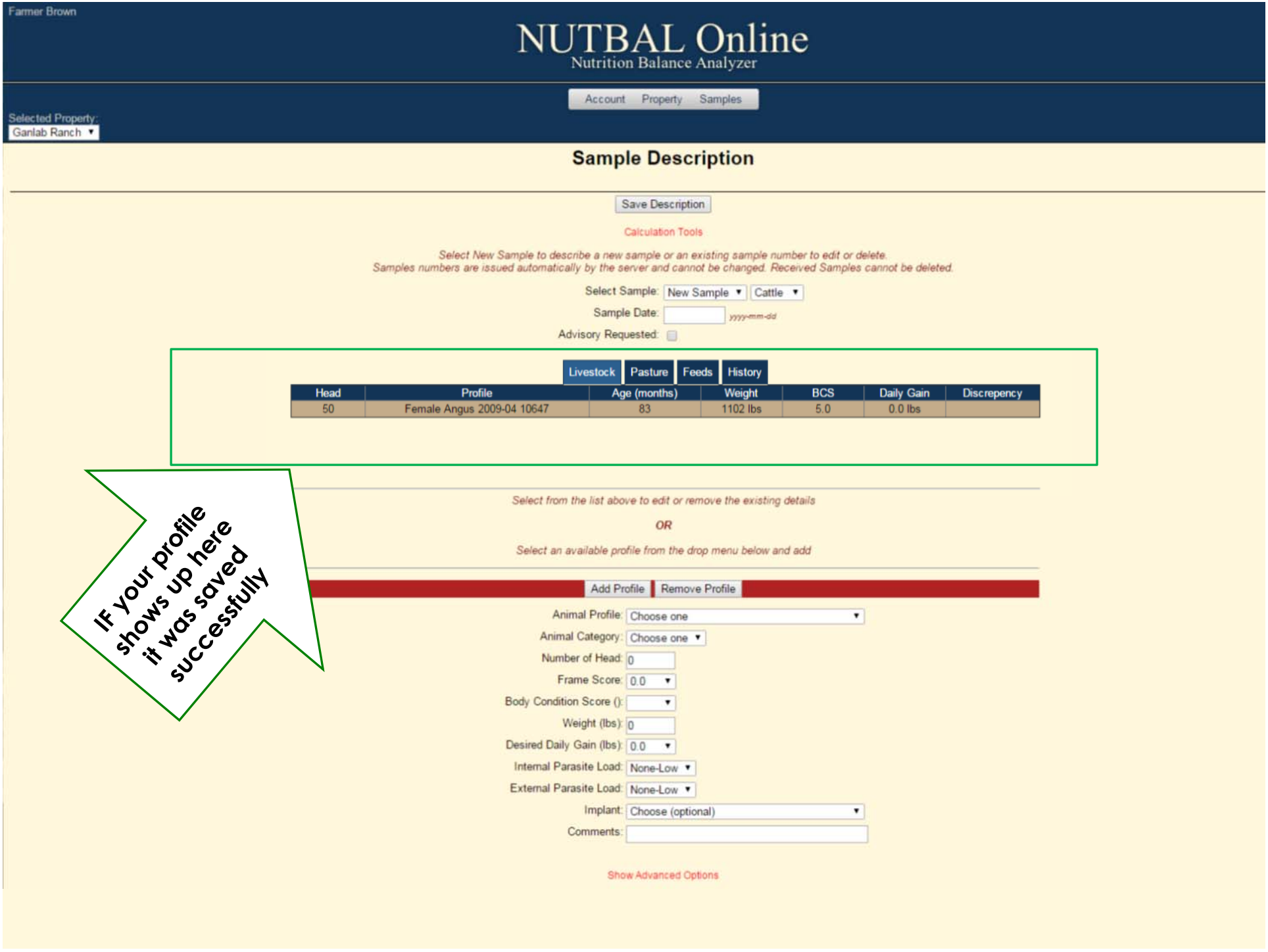
Desired Daily Gain (lbs): 0.0 — *0.0 lbs/day required to maintain BCS*

Internal Parasite Load: None-Low

External Parasite Load: None-Low

Implant: Choose (optional)

Comments:


Farmer Brown
NUTBAL Online
Nutrition Balance Analyzer
Account Property Samples
Selected Property:
Ganlab Ranch
Sample Description
Save Description
Calculation Tools
Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.
Select Sample: New Sample Cattle
Sample Date: yyyy-mm-dd
Advisory Requested:
Livestock Pasture Feeds History
Head Profile Age (months) Weight BCS Daily Gain Discrepency
50 Female Angus 2009-04 10647 83 1102 lbs 5.0 0.0 lbs
IF your profile shows up here it was saved successfully
Select from the list above to edit or remove the existing details
OR
Select an available profile from the drop menu below and add
Add Profile Remove Profile
Animal Profile: Choose one
Animal Category: Choose one
Number of Head: 0
Frame Score: 0.0
Body Condition Score ():
Weight (lbs): 0
Desired Daily Gain (lbs): 0.0
Internal Parasite Load: None-Low
External Parasite Load: None-Low
Implant: Choose (optional)
Comments:
Show Advanced Options

Farmer Brown

NUTBAL Online
Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: yyyy-mm-dd

Advisory Requested:

Livestock | Pasture | Feeds | History

Head	Profile	Age (months)	Weight	BCS	Daily Gain	Discrepency
50	Female Angus 2009-04 10647	83	1102 lbs	5.0	0.0 lbs	

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Profile | Remove Profile

Animal Profile: Choose one

Animal Category: Choose one

Number of Head: 0

Frame Score: 0.0

Body Condition Score ():

Weight (lbs): 0

Desired Daily Gain (lbs): 0.0

Internal Parasite Load: None-Low

External Parasite Load: None-Low

Implant: Choose (optional)

Comments:

Show Advanced Options

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Comments:

Pasture: Choose one

Pasture Growth Rate: Flowering/Seeding

Ionophore Used: Choose (optional)

Days in Period: 30

Use this box to leave any additional information.

Show Advanced Options

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Comments:

Pasture: Choose one

Pasture Growth Rate: Flowering/Seeding

Ionophore Used: Choose (optional)

Days in Period: 30

Show Advanced Options

Use this box to leave any additional information.

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

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Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Comments:

Pasture: Choose one

Pasture Growth Rate: Flowering/Seeding

Ionophore Used: Choose (optional)

Days in Period: 30

Use this box to leave any additional information.

Show Advanced Options

Farmer Brown

Sign Out

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Nutrition Balance Analyzer

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Ganlab Ranch

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Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Comments:

Pasture: Choose one

Pasture Growth Rate: Flowering/Seeding

Ionophore Used: Choose (optional)

Days in Period: 30

Use this box to leave any additional information.

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Farmer Brown

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NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

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Ganlab Ranch

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Calculation Tools

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Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Comments:

Pasture: Choose one

Pasture Growth Rate: Flowering/Seeding

Ionophore Used: Choose (optional)

Days in Period: 30

Use this box to leave any additional information.

Show Advanced Options

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

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Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Comments:

Pasture: Choose one

Pasture Growth Rate: Flowering/Seeding

Ionophore Used:

Days in Period:

- Declining/Dormant/Drought
- Flowering/Seeding
- Rapid Growth

Use this box to leave any additional information.

Show Advanced Options

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

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Ganlab Ranch

Sample Description

Save Description

Calculation Tools

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Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Comments:

Pasture: Choose one

Pasture Growth Rate: Flowering/Seeding

Ionophore Used: Choose (optional)

Days in Period: 30

Use this box to leave any additional information.

Show Advanced Options

Farmer Brown

Sign Out

NUTBAL Online
Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

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Calculation Tools

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Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Comments:

Pasture: Choose one

Pasture Growth Rate: Flowering/Seeding

Ionophore Used: Choose (optional)

Days in Period: 30

Use this box to leave any additional information.

Show Advanced Options

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

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Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Comments:

Pasture: Choose one

Pasture Growth Rate: Flowering/Seeding

Ionophore Used: Choose (optional)

Days in Period: 30

Use this box to leave any additional information.

Show Advanced Options

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

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Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Comments:

Pasture: Choose one

Pasture Growth Rate: Flowering/Seeding

Ionophore Used: Choose (optional)

Days in Period: 30

Use this box to leave any additional information.

Show Advanced Options

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Comments:

Pasture: Choose one

Pasture Growth Rate: Flowering/Seeding

Ionophore Used: Choose (optional)

Days in Period: 30

Use this box to leave any additional information.

Show Advanced Options

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pastur | Feeds | History

Comments:

Pasture: Choose one

Pasture Growth Rate: Flowering/Seeding

Ionophore Used: Choose (optional)

Days in Period: 30

Show Advanced Options

Entering Information on Supplemental Feeds

- Only the Livestock tab and the Pasture tabs have to be filled out in order to successfully save the Sample Description.

- If supplemental feeds are being used, add information for each feed being used. Click add feed after each feed is added.

- Only include supplemental feeds that were being fed prior to sampling and that will continue to be fed over the next 30 days. Feed needs to be discontinued 48hrs before sampling.

What feed to enter

- Supplements with Protein should always be entered here. If unsure about what to enter, send a copy of feed tag with your sample.

- Vitamin and Mineral supplements do not need to be entered into NUTBAL.

From: http://www.redchainfeeds.com/cattle.html

From: http://www.countrymax.com/Cracked-Corn-50-Lb./

What feed to enter

- HAY or roughage supplements are unique. Hay has protein and therefore it is important that the lab be made aware that hay is being fed.

- We recommended that hay not be entered into the system as a "feed". It is best to leave a note in the sample description indicating that hay is being fed.

- If you are feeding hay and do not remove the hay 48 hours before taking your sample, then the diet quality as measured in the manure will include the contribution of the hay to the overall forage quality

What feed to enter

- So, if the hay is then entered as a feed in NUTBAL, this will result in an over-estimation of protein, because feed protein is added to the protein measured in the sample you sent to the lab. We will talk more about this when we look at the report

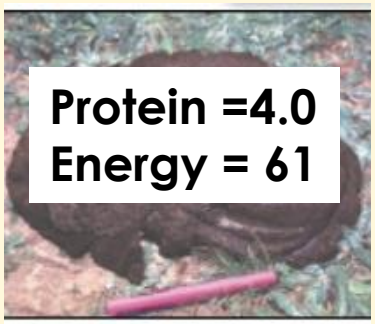
- To get the diet quality value for pasture feed, you can remove hay from animals 48 hours prior to sample collection (if this is possible).

From: http://www.corralpanels.org/corralpanels/bale-feeders.html

Pasture	Hay	Ganlab Quality Prediction	Feed Added In NUTBAL	NUTBAL Overall Diet Quality

Pasture grazing with hay removed 48 hours prior

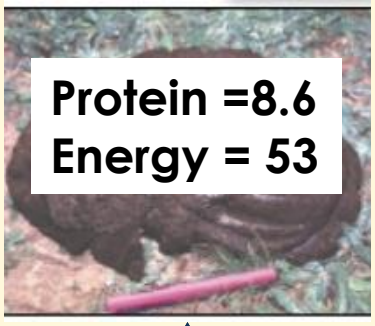




Protein =5.1
Energy = 61
Wt Ch = -2.7

Pasture grazing with hay provided, no hay is added as a supplemental feed in NUTBAL

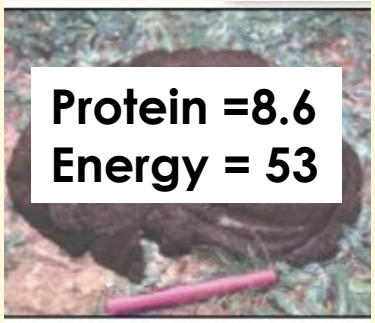




Protein =9.1
Energy = 54
Wt Ch =+0.7

Pasture grazing with hay provided, and hay added as a supplemental feed in NUTBAL





Protein =8.8
Energy = 53
Wt Ch = +0.5

Farmer Brown
Ganlab Ranch
720 E. Blackland Road
Temple TX, 76502
Phone: (254)774-6134
Fax: (254)774-6150

Pasture grazing with hay removed 48 hours prior

Generated: 2016-4-20 6:37

Standard Report

Sample: *58152*
Date Collected: *2016-03-01*
Report Date: *2016-04-20*
Pasture Name: *Pasture 1*
Vegetation Type: *Native Range Intermediate Grass*

Profile Name: *Female Angus 2009-04 21370*
Animal Kind: *Cattle*
Animal Breed: *Angus*
Gender: *Female*

Comments: *Animals Removed from Hay for 48 hours*

Current Animal Condition

Standard Ref. Wt.: *1102 lbs*
Weight: *1102 lbs*
Body Condition: *5.0 (1-9)*
Description: *mama cows*

Average Age: *6.9 Years*
Duration Pregnant: *0 days*
Duration Lactating: *0 days*

Performance

Weight Change Goal: *0.0 lbs/day*
Predicted Weight Change: *-2.71 lbs/day*
Performance Limited by: *Crude Protein*

Weight in 30 Days: *1020 lbs*
Body Condition in 30 Days: *4.0 (1-9)*

Feeds Applied

Name:	Amount:	Crude Protein:	Total Digestible Nutrients:
20% Cubes, All Natural CP	*1.0 lbs daily*	*21.1%*	*70.0%*

Daily Nutritional Status

	Crude Protein	NEm	NEg
Intake:	*0.73 lbs*	*9.437 Mcal*	*0.471 Mcal*
Requirement:	*1.31 lbs*	*8.686 Mcal*	*0.0 Mcal*
---	---	---	---
Balance:	*-0.58 lbs*	*0.75 Mcal*	*0.47 Mcal*

Daily Dry Matter Intake

	Intake	Percent of Std. Ref. Wt.	AUE
Concentrates:	*0.94 lbs*	*0.09%*	*0.04*
Roughage:	*0.0 lbs*	*0.0%*	*0.0*
Forage:	*13.35 lbs*	*1.21%*	*0.51*
---	---	---	---
Total:	*14.29 lbs*	*1.3%*	*0.55*

Diet Quality

	Overall	Forage
CP Consumption:	*5.13%*	*4.0%*
DOM Consumption:	*61.41%*	*61.0%*
DOM / CP Ratio:	*11.97*	*15.3*

Farmer Brown
Ganlab Ranch
720 E. Blackland Road
Temple TX, 76502
Phone: (254)774-6134
Fax: (254)774-6150

Pasture grazing with hay provided, no hay is added as a supplemental feed in NUTBAL

Generated: 2016-4-20 6:43

Standard Report

Sample: *58152*
Date Collected: *2016-03-01*
Report Date: *2016-04-20*
Pasture Name: *Pasture 1*
Vegetation Type: *Native Range Intermediate Grass*

Profile Name: *Female Angus 2009-04 21370*
Animal Kind: *Cattle*
Animal Breed: *Angus*
Gender: *Female*

Comments: *Hay is being Fed*

Current Animal Condition

Standard Ref. Wt.: *1102 lbs*
Weight: *1102 lbs*
Body Condition: *5.0 (1-9)*
Description: *mama cows*

Average Age: *6.9 Years*
Duration Pregnant: *0 days*
Duration Lactating: *0 days*

Performance

Weight Change Goal: *0.0 lbs/day*
Predicted Weight Change: *0.68 lbs/day*
Performance Limited by: *Energy*

Weight in 30 Days: *1122 lbs*
Body Condition in 30 Days: *5.3 (1-9)*

Feeds Applied

Name:	Amount:	Crude Protein:	Total Digestible Nutrients:
20% Cubes, All Natural CP	*1.0 lbs daily*	*21.1%*	*70.0%*

Daily Nutritional Status

	Crude Protein	NEm	NEg
Intake:	*2.04 lbs*	*12.001 Mcal*	*1.793 Mcal*
Requirement:	*1.31 lbs*	*8.686 Mcal*	*0.0 Mcal*
---	---	---	---
Balance:	*0.73 lbs*	*3.31 Mcal*	*1.79 Mcal*

Daily Dry Matter Intake

	Intake	Percent of Std. Ref. Wt.	AUE
Concentrates:	*0.94 lbs*	*0.09%*	*0.04*
Roughage:	*0.0 lbs*	*0.0%*	*0.0*
Forage:	*21.42 lbs*	*1.94%*	*0.82*
---	---	---	---
Total:	*22.36 lbs*	*2.03%*	*0.86*

Diet Quality

	Overall	Forage
CP Consumption:	*9.13%*	*8.6%*
DOM Consumption:	*53.59%*	*53.0%*
DOM / CP Ratio:	*5.87*	*6.2*

Farmer Brown
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Temple TX, 76502
Phone: (254)774-6134
Fax: (254)774-6150

Pasture grazing with hay provided, and hay added as a supplemental feed in NUTBAL

Standard Report

Sample: *58152*
Date Collected: *2016-03-01*
Report Date: *2016-04-20*
Pasture Name: *Pasture 1*
Vegetation Type: *Native Range Intermediate Grass*

Profile Name: *Female Angus 2009-04 21370*
Animal Kind: *Cattle*
Animal Breed: *Angus*
Gender: *Female*

Comments: *Hay is being fed, and added as a feed*

Current Animal Condition

Standard Ref. Wt.: *1102 lbs*
Weight: *1102 lbs*
Body Condition: *5.0 (1-9)*
Description: *mama cows*

Average Age: *6.9 Years*
Duration Pregnant: *0 days*
Duration Lactating: *0 days*

Performance

Weight Change Goal: *0.0 lbs/day*
Predicted Weight Change: *0.55 lbs/day*
Performance Limited by: *Energy*

Weight in 30 Days: *1118 lbs*
Body Condition in 30 Days: *5.2 (1-9)*

Feeds Applied

Name:	Amount:	Crude Protein:	Total Digestible Nutrients:
20% Cubes, All Natural CP	*1.0 lbs daily*	*21.1%*	*70.0%*
Bermudagrass, Coastal Hay S-C	*15.0 lbs daily*	*8.0%*	*54.0%*

Daily Nutritional Status

	Crude Protein	NEm	NEg
Intake:	*1.92 lbs*	*11.39 Mcal*	*1.44 Mcal*
Requirement:	*1.3 lbs*	*8.69 Mcal*	*0.0 Mcal*
---	---	---	---
Balance:	*0.62 lbs*	*2.7 Mcal*	*1.44 Mcal*

Daily Dry Matter Intake

	Intake	Percent of Std. Ref. Wt.	AUE
Concentrates:	*0.95 lbs*	*0.09%*	*0.04*
Roughage:	*13.49 lbs*	*1.22%*	*0.52*
Forage:	*7.43 lbs*	*0.67%*	*0.29*
---	---	---	---
Total:	*21.87 lbs*	*1.98%*	*0.84*

Diet Quality

	Overall	Forage
CP Consumption:	*8.77%*	*8.6%*
DOM Consumption:	*52.62%*	*53.0%*
DOM / CP Ratio:	*6.0*	*6.2*

Farmer Brown

Sign Out

NUTBAL Online
Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Feed	Amount Fed	Minimum Fed	Maximum Fed	Frequency	Cost
No Feeds Have Been Added					

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Feed | Remove Feed

Feed: Choose one

Crude Protein (%): 0

Total Digestible Nutrients (%): 0

Cost ($/ton): 0

(optional) Amount Fed (lbs/head): 0.0

(optional) Min Amount Fed (lbs/head): 0.0

(optional) Max Amount Fed (lbs/head): 0.0

Daily

Wasted (%): 1

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

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Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Feed	Amount Fed	Minimum Fed	Maximum Fed	Frequency	Cost
No Feeds Have Been Added					

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Feed | Remove Feed

Feed: Choose one

Crude Protein (%): 0

Total Digestible Nutrients (%): 0

Cost ($/ton): 0

(optional) Amount Fed (lbs/head): 0.0

(optional) Min Amount Fed (lbs/head): 0.0

(optional) Max Amount Fed (lbs/head): 0.0

Daily

Wasted (%): 1

Farmer Brown

Sign Out

NUTBAL Online
Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

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Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Feed	Amount Fed	Minimum Fed	Maximum Fed	Frequency	Cost
No Feeds Have Been Added					

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Feed | Remove Feed

Feed: Choose one

Crude Protein (%): 0

Total Digestible Nutrients (%): 0

Cost ($/ton): 0

(optional) Amount Fed (lbs/head): 0.0

(optional) Min Amount Fed (lbs/head): 0.0

(optional) Max Amount Fed (lbs/head): 0.0

Daily

Wasted (%): 1

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

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Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Feed	Amount Fed	Minimum Fed	Maximum Fed	Frequency	Cost
No Feeds Have Been Added					

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Feed | Remove Feed

Feed: Choose one

Crude Protein (%): 0

Total Digestible Nutrients (%): 0

Cost ($/ton): 0

(optional) Amount Fed (lbs/head): 0.0

(optional) Min Amount Fed (lbs/head): 0.0

(optional) Max Amount Fed (lbs/head): 0.0

Daily

Wasted (%): 1

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Feed	Amount Fed	Minimum Fed	Maximum Fed	Frequency	Cost
No Feeds Have Been Added					

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Feed | Remove Feed

Feed: Choose one

Crude Protein (%): 0

Total Digestible Nutrients (%): 0

Cost ($/ton): 0

(optional) Amount Fed (lbs/head): 0.0

(optional) Min Amount Fed (lbs/head): 0.0

(optional) Max Amount Fed (lbs/head): 0.0

Daily
- Daily
- Every 2 days
- Every 3 days
- Weekly

Wasted (%): 1

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Feed	Amount Fed	Minimum Fed	Maximum Fed	Frequency	Cost
No Feeds Have Been Added					

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Feed | Remove Feed

Feed: Choose one

Crude Protein (%): 0

Total Digestible Nutrients (%): 0

Cost ($/ton): 0

(optional) Amount Fed (lbs/head): 0.0

(optional) Min Amount Fed (lbs/head): 0.0

(optional) Max Amount Fed (lbs/head): 0.0

Daily

Wasted (%): 1

Farmer Brown

Sign Out

NUTBAL Online
Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Feed	Amount Fed	Minimum Fed	Maximum Fed	Frequency	Cost
No Feeds Have Been Added					

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Feed | Remove Feed

Feed: Choose one

Crude Protein (%): 0

Total Digestible Nutrients (%): 0

Cost ($/ton): 0

(optional) Amount Fed (lbs/head): 0.0

(optional) Min Amount Fed (lbs/head): 0.0

(optional) Max Amount Fed (lbs/head): 0.0

Daily

Wasted (%): 1

Farmer Brown

Sign Out

NUTBAL Online
Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

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Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Feed	Amount Fed	Minimum Fed	Maximum Fed	Frequency	Cost
No Feeds Have Been Added					

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Feed | Remove Feed

Click **Add Feed**

Feed: Choose one

Crude Protein (%): 0

Total Digestible Nutrients (%): 0

Cost ($/ton): 0

(optional) Amount Fed (lbs/head): 0.0

(optional) Min Amount Fed (lbs/head): 0.0

(optional) Max Amount Fed (lbs/head): 0.0

Daily

Wasted (%): 1

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Feed	Amount Fed	Minimum Fed	Maximum Fed	Frequency	Cost
20% Cubes, All Natural CP	1.5	0.0	0.0	Daily	0

IF your profile shows up here it was saved successfully

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Feed | Remove Feed

Feed: Choose one

Crude Protein (%): 0

Total Digestible Nutrients (%): 0

Cost ($/ton): 0

(optional) Amount Fed (lbs/head): 0.0

(optional) Min Amount Fed (lbs/head): 0.0

(optional) Max Amount Fed (lbs/head): 0.0

Daily

Wasted (%): 1

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

Sample Description

Save Description

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: New Sample | Cattle

Sample Date: 2016-03-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Feed	Amount Fed	Minimum Fed	Maximum Fed	Frequency	Cost
20% Cubes, All Natural CP	1.5	0.0	0.0	Daily	0

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Feed | Remove Feed

Feed: Choose one

Crude Protein (%): 0

Total Digestible Nutrients (%): 0

Cost ($/ton): 0

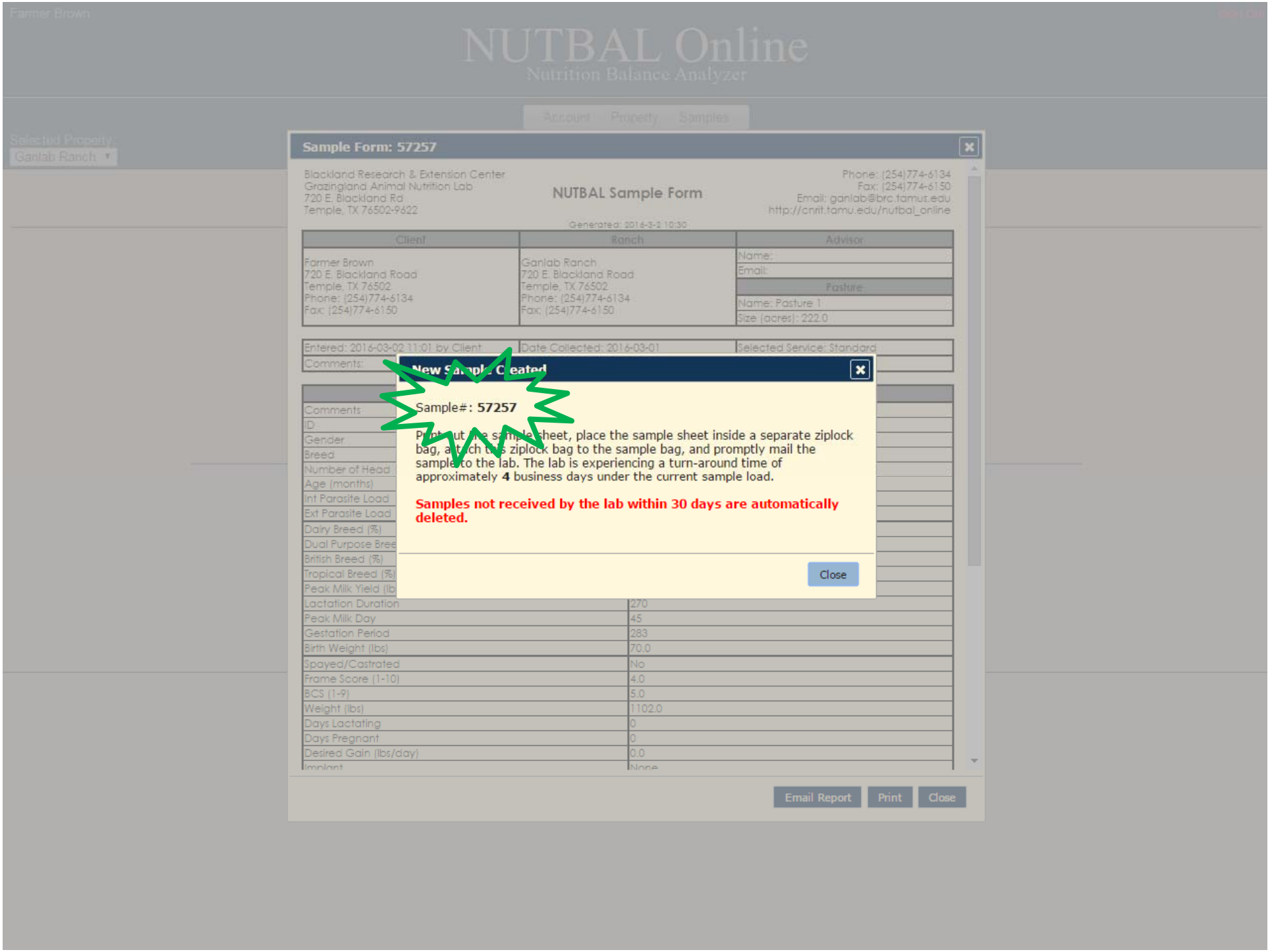
(optional) Amount Fed (lbs/head): 0.0

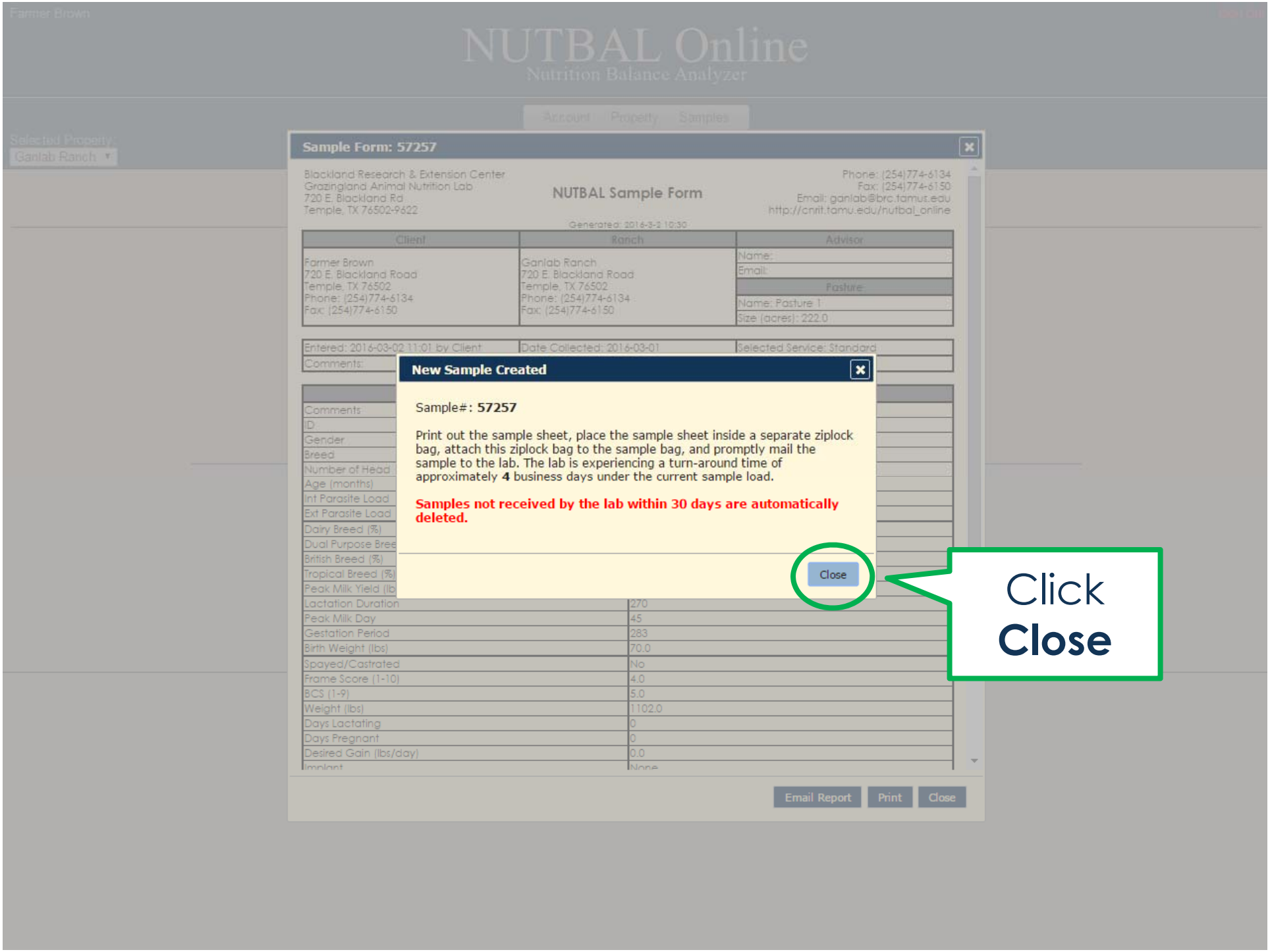
(optional) Min Amount Fed (lbs/head): 0.0

(optional) Max Amount Fed (lbs/head): 0.0

} Daily

Wasted (%): 1


Farmer Brown
NUTBAL Online
Nutrition Balance Analyzer
Account
Property
Samples
Selected Property:
Ganlab Ranch
Sample Form: 57257
Blackland Research & Extension Center
Grazingland Animal Nutrition Lab
720 E. Blackland Rd
Temple, TX 76502-9622
NUTBAL Sample Form
Phone: (254)774-6134
Fax: (254)774-6150
Email: ganlab@brc.tamut.edu
http://cnrit.tamu.edu/nutbal_online
Generated: 2016-3-2 10:30
Client
Farmer Brown
720 E. Blackland Road
Temple, TX 76502
Phone: (254)774-6134
Fax: (254)774-6150
Ranch
Ganlab Ranch
720 E. Blackland Road
Temple, TX 76502
Phone: (254)774-6134
Fax: (254)774-6150
Advisor
Name:
Email:
Pasture
Name: Pasture 1
Size (acres): 222.0
Entered: 2016-03-02 11:01 by Client
Date Collected: 2016-03-01
Selected Service: Standard
Comments:
New Sample Created
Sample#: 57257
Print out the sample sheet, place the sample sheet inside a separate ziplock bag, attach this ziplock bag to the sample bag, and promptly mail the sample to the lab. The lab is experiencing a turn-around time of approximately 4 business days under the current sample load.
Samples not received by the lab within 30 days are automatically deleted.
Close
Comments
ID
Gender
Breed
Number of Head
Age (months)
Int Parasite Load
Ext Parasite Load
Dairy Breed (%)
Dual Purpose Bree
British Breed (%)
Tropical Breed (%)
Peak Milk Yield (lb
Lactation Duration 270
Peak Milk Day 45
Gestation Period 283
Birth Weight (lbs) 70.0
Spayed/Castrated No
Frame Score (1-10) 4.0
BCS (1-9) 5.0
Weight (lbs) 1102.0
Days Lactating 0
Days Pregnant 0
Desired Gain (lbs/day) 0.0
Implant None
Email Report
Print
Close


Farmer Brown
NUTBAL Online
Nutrition Balance Analyzer
Account
Property
Samples
Selected Property:
Ganlab Ranch
Sample Form: 57257
Blackland Research & Extension Center
Grazingland Animal Nutrition Lab
720 E. Blackland Rd
Temple, TX 76502-9622
NUTBAL Sample Form
Phone: (254)774-6134
Fax: (254)774-6150
Email: ganlab@brc.tamut.edu
http://cnrit.tamu.edu/nutbal_online
Generated: 2016-3-2 10:30
Client
Farmer Brown
720 E. Blackland Road
Temple, TX 76502
Phone: (254)774-6134
Fax: (254)774-6150
Ranch
Ganlab Ranch
720 E. Blackland Road
Temple, TX 76502
Phone: (254)774-6134
Fax: (254)774-6150
Advisor
Name:
Email:
Pasture
Name: Pasture 1
Size (acres): 222.0
Entered: 2016-03-02 11:01 by Client
Date Collected: 2016-03-01
Selected Service: Standard
Comments:
New Sample Created
Sample#: 57257
Print out the sample sheet, place the sample sheet inside a separate ziplock bag, attach this ziplock bag to the sample bag, and promptly mail the sample to the lab. The lab is experiencing a turn-around time of approximately 4 business days under the current sample load.
Samples not received by the lab within 30 days are automatically deleted.
Close
Comments
ID
Gender
Breed
Number of Head
Age (months)
Int Parasite Load
Ext Parasite Load
Dairy Breed (%)
Dual Purpose Bree
British Breed (%)
Tropical Breed (%)
Peak Milk Yield (lb
Lactation Duration 270
Peak Milk Day 45
Gestation Period 283
Birth Weight (lbs) 70.0
Spayed/Castrated No
Frame Score (1-10) 4.0
BCS (1-9) 5.0
Weight (lbs) 1102.0
Days Lactating 0
Days Pregnant 0
Desired Gain (lbs/day) 0.0
Implant None
Email Report
Print
Close
Click
Close


Farmer Brown
Sign Out
NUTBAL Online
Nutrition Balance Analyzer
Account
Property
Samples
Selected Property:
Ganlab Ranch
Sample Form: 57257
Blackland Research & Extension Center
Grazingland Animal Nutrition Lab
720 E. Blackland Rd
Temple, TX 76502-9622
NUTBAL Sample Form
Generated: 2016-3-2 10:30
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Client
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720 E. Blackland Road
Temple, TX 76502
Phone: (254)774-6134
Fax: (254)774-6150
Ranch
Ganlab Ranch
720 E. Blackland Road
Temple, TX 76502
Phone: (254)774-6134
Fax: (254)774-6150
Advisor
Name:
Email:
Pasture
Name: Pasture 1
Size (acres): 222.0
Entered: 2016-03-02 11:01 by Client
Date Collected: 2016-03-01
Selected Service: Standard
Comments:
Animal Attributes
Profile
Comments
ID 10647
Gender Female
Breed Angus
Number of Head 50
Age (months) 83
Int Parasite Load None-Low
Ext Parasite Load None-Low
Dairy Breed (%) 0.0
Dual Purpose Breed (%) 0.0
British Breed (%) 100.0
Tropical Breed (%) 0.0
Peak Milk Yield (lbs) 17.6
Lactation Duration 270
Peak Milk Day 45
Gestation Period 283
Birth Weight (lbs) 70.0
Spayed/Castrated No
Frame Score (1-10) 4.0
BCS (1-9) 5.0
Weight (lbs) 1102.0
Days Lactating 0
Days Pregnant 0
Desired Gain (lbs/day) 0.0
Implant None
Email Repor
Print
lose

Filling out Paper Sample Sheets

GAN Lab
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Grazingland Animal Nutrition Lab

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http://cnrit.tamu.edu/ganlab

Client	
Name (First & Last):	
Address:	
City:	State: Zip:
Phone:	Fax:
Email:	
Contact Method (choose one):	[ ] Email [ ] Mail [ ] Fax

Ranch	
Name:	
Address:	
City:	State: Zip:
Phone:	Fax:

NRCS Agent or Technical Advisor	
Name:	
E-mail:	

Select Service

[ ] Standard: $35. Includes NIRS report & animal performance report

OR

[ ] Advisory: $70. Includes Standard & sample recommendations. Add $10 for each profile past 3rd.

Program

[ ] CSP [ ] Education [ ] Other [ ] None

Date Collected:

Animal Attributes	Example	Profile 1	Profile 2	Profile 3
Herd ID	Cows 2010			
Species (Required)	Cattle			
Gender (Required)	Female			
Breed (Required)	Angus			
Number of Head	50			
Average Age (Required)	05/2010			
Optional Breed Information				
% Dairy Breed	0			
% Dual Purpose Breed	0			
% British or Continental Breed	100%			
% Tropical Breed	0			
Current Condition				
Spayed/Castrated (Y or N)	N			
Body Condition Score (1-9)	5			
Weight (lbs)	1102			
Days Lactating (Required)	150			
Days Pregnant (Required)	90			
Desired Average Daily Gain (lbs)	0			
Implant	None			
Internal Parasite Load (L M H)	L			
External Parasite Load (L M H)	L			

Pasture		Pasture	Pasture Comments
Pasture Name	Field 1		
Size (acres)	200		
% of forage allowed to be depleted	60		
Predominant Forage Type	Native Intermediate		
Adequately or Poorly Watered	Adequately Watered		
Slope (≤ 15° or > 15°)	< 15 Degree Slope		
Pasture Growth Rate (L M H)	M		
Ionophore	None		
Days in Grazing Period	30		
% Unrestricted Grazing	100		

Feeds Used	Example	Feed 1	Feed 2
Feed Type	Tub		
% Crude Protein	22		
% Total Digestible Nutrients	83		
Cost per Ton ($)	400		
Amount Fed (lbs/head)	0.7		
Frequency of Feedings	Daily		
Feed Mitigation			
Minimum Amount Fed (lbs/head)	0.5		
Maximum Amount Fed (lbs/head)	1		

Comments

Lab Use Only

Sample #	
NIR File:	
Invoice #	Barcode
Check #	
Notes:	

Please only **ONE** sample per sample sheet. NUTBAL does not provide accurate results for nursing animals.

Please **do not** provide samples for animals **under** 6 months of age.

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http://cnrit.tamu.edu/ganlab

Client	
Name (First & Last):	
Address:	
City:	State: Zip:
Phone:	Fax:
Email:	
Contact Method (choose one):	[ ] Email [ ] Mail [ ] Fax

Ranch	
Name:	
Address:	
City:	State: Zip:
Phone:	Fax:

Date Collected:	

NRCS Agent or Technical Advisor	
Name:	
E-mail:	

Program
[ ] CSP [ ] Education [ ] Other [ ] None

Select Service
[ ] Standard: $35. Includes NIRS report & animal performance report
OR
[ ] Advisory: $70. Includes Standard & sample recommendations. Add $10 for each profile past 3rd.

Animal Attributes	Example	Profile 1	Profile 2	Profile 3
Herd ID	Cows 2010			
Species (Required)	Cattle			
Gender (Required)	Female			
Breed (Required)	Angus			
Number of Head	50			
Average Age (Required)	05/2010			
Optional Breed Information				
% Dairy Breed	0			
% Dual Purpose Breed	0			
% British or Continental Breed	100%			
% Tropical Breed	0			
Current Condition				
Spayed/Castrated (Y or N)	N			
Body Condition Score (1-9)	5			
Weight (lbs)	1102			
Days Lactating (Required)	150			
Days Pregnant (Required)	90			
Desired Average Daily Gain (lbs)	0			
Implant	None			
Internal Parasite Load (L M H)	L			
External Parasite Load (L M H)	L			

Pasture		Pasture	Pasture Comments
Pasture Name	Field 1		
Size (acres)	200		
% of forage allowed to be depleted	60		
Predominant Forage Type	Native Intermediate		
Adequately or Poorly Watered	Adequately Watered		
Slope (≤ 15° or > 15°)	< 15 Degree Slope		
Pasture Growth Rate (L M H)	M		
Ionophore	None		
Days in Grazing Period	30		
% Unrestricted Grazing	100		

Feeds Used	Example	Feed 1	Feed 2
Feed Type	Tub		
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Minimum Amount Fed (lbs/head)	0.5		
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Comments

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Client	
Name (First & Last):	
Address:	
City:	State: Zip:
Phone:	Fax:
Email:	
Contact Method (choose one):	[ ] Email [ ] Mail [ ] Fax

Ranch	
Name:	
Address:	
City:	State: Zip:
Phone:	Fax:

Date Collected:	

NRCS Agent or Technical Advisor	
Name:	
E-mail:	

Program
[ ] CSP [ ] Education [ ] Other [ ] None

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Species (Required)	Cattle			
Gender (Required)	Female			
Breed (Required)	Angus			
Number of Head	50			
Average Age (Required)	05/2010			
Optional Breed Information				
% Dairy Breed	0			
% Dual Purpose Breed	0			
% British or Continental Breed	100%			
% Tropical Breed	0			
Current Condition				
Spayed/Castrated (Y or N)	N			
Body Condition Score (1-9)	5			
Weight (lbs)	1102			
Days Lactating (Required)	150			
Days Pregnant (Required)	90			
Desired Average Daily Gain (lbs)	0			
Implant	None			
Internal Parasite Load (L M H)	L			
External Parasite Load (L M H)	L			

Pasture		Pasture	Pasture Comments
Pasture Name	Field 1		
Size (acres)	200		
% of forage allowed to be depleted	60		
Predominant Forage Type	Native Intermediate		
Adequately or Poorly Watered	Adequately Watered		
Slope (≤ 15° or > 15°)	< 15 Degree Slope		
Pasture Growth Rate (L M H)	M		
Ionophore	None		
Days in Grazing Period	30		
% Unrestricted Grazing	100		

Feeds Used	Example	Feed 1	Feed 2
Feed Type	Tub		
% Crude Protein	22		
% Total Digestible Nutrients	83		
Cost per Ton ($)	400		
Amount Fed (lbs/head)	0.7		
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Feed Mitigation			
Minimum Amount Fed (lbs/head)	0.5		
Maximum Amount Fed (lbs/head)	1		

Comments

Lab Use Only	
Sample #	
NIR File:	
Invoice #	Barcode
Check #	
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Client	
Name (First & Last):	
Address:	
City:	State: Zip:
Phone:	Fax:
Email:	
Contact Method (choose one):	[ ] Email [ ] Mail [ ] Fax

Ranch	
Name:	
Address:	
City:	State: Zip:
Phone:	Fax:
Date Collected:	

NRCS Agent or Technical Advisor
Name:
E-mail:

Program
[ ] CSP [ ] Education [ ] Other [ ] None

Select Service
[ ] **Standard:** $35. Includes NIRS report & animal performance report
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Animal Attributes	Example	Profile 1	Profile 2	Profile 3
Herd ID	Cows 2010			
Species (Required)	Cattle			
Gender (Required)	Female			
Breed (Required)	Angus			
Number of Head	50			
Average Age (Required)	05/2010			
Optional Breed Information				
% Dairy Breed	0			
% Dual Purpose Breed	0			
% British or Continental Breed	100%			
% Tropical Breed	0			
Current Condition				
Spayed/Castrated (Y or N)	N			
Body Condition Score (1-9)	5			
Weight (lbs)	1102			
Days Lactating (Required)	150			
Days Pregnant (Required)	90			
Desired Average Daily Gain (lbs)	0			
Implant	None			
Internal Parasite Load (L M H)	L			
External Parasite Load (L M H)	L			

Pasture		Pasture	Pasture Comments
Pasture Name	Field 1		
Size (acres)	200		
% of forage allowed to be depleted	60		
Predominant Forage Type	Native Intermediate		
Adequately or Poorly Watered	Adequately Watered		
Slope (≤ 15° or > 15°)	< 15 Degree Slope		
Pasture Growth Rate (L M H)	M		
Ionophore	None		
Days in Grazing Period	30		
% Unrestricted Grazing	100		

Feeds Used	Example	Feed 1	Feed 2
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Feed Mitigation			
Minimum Amount Fed (lbs/head)	0.5		
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Comments

Lab Use Only	
Sample #	
NIR File:	
Invoice #	Barcode
Check #	
Notes:	

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Client	
Name (First & Last):	
Address:	
City:	State: Zip:
Phone:	Fax:
Email:	
Contact Method (choose one):	[ ] Email [ ] Mail [ ] Fax

Ranch	
Name:	
Address:	
City:	State: Zip:
Phone:	Fax:

Date Collected:	

NRCS Agent or Technical Advisor	
Name:	
E-mail:	

Program
[ ] CSP [ ] Education [ ] Other [ ] None

Select Service
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Animal Attributes	Example	Profile 1	Profile 2	Profile 3
Herd ID	Cows 2010			
Species (Required)	Cattle			
Gender (Required)	Female			
Breed (Required)	Angus			
Number of Head	50			
Average Age (Required)	05/2010			
Optional Breed Information				
% Dairy Breed	0			
% Dual Purpose Breed	0			
% British or Continental Breed	100%			
% Tropical Breed	0			
Current Condition				
Spayed/Castrated (Y or N)	N			
Body Condition Score (1-9)	5			
Weight (lbs)	1102			
Days Lactating (Required)	150			
Days Pregnant (Required)	90			
Desired Average Daily Gain (lbs)	0			
Implant	None			
Internal Parasite Load (L M H)	L			
External Parasite Load (L M H)	L			

Pasture		Pasture	Pasture Comments
Pasture Name	Field 1		
Size (acres)	200		
% of forage allowed to be depleted	60		
Predominant Forage Type	Native Intermediate		
Adequately or Poorly Watered	Adequately Watered		
Slope (≤ 15° or > 15°)	< 15 Degree Slope		
Pasture Growth Rate (L M H)	M		
Ionophore	None		
Days in Grazing Period	30		
% Unrestricted Grazing	100		

Feeds Used	Example	Feed 1	Feed 2
Feed Type	Tub		
% Crude Protein	22		
% Total Digestible Nutrients	83		
Cost per Ton ($)	400		
Amount Fed (lbs/head)	0.7		
Frequency of Feedings	Daily		
Feed Mitigation			
Minimum Amount Fed (lbs/head)	0.5		
Maximum Amount Fed (lbs/head)	1		

Comments

Lab Use Only	
Sample #	
NIR File:	
Invoice #	Barcode
Check #	
Notes:	

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http://cnrit.tamu.edu/ganlab

Client	
Name (First & Last):	
Address:	
City:	State: Zip:
Phone:	Fax:
Email:	
Contact Method (choose one):	[ ] Email [ ] Mail [ ] Fax

Ranch	
Name:	
Address:	
City:	State: Zip:
Phone:	Fax:

Date Collected:	

NRCS Agent or Technical Advisor	
Name:	
E-mail:	

Program
[ ] CSP [ ] Education [ ] Other [ ] None

Select Service
[ ] **Standard:** $35. Includes NIRS report & animal performance report
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Animal Attributes	Example	Profile 1	Profile 2	Profile 3
Herd ID	Cows 2010			
Species (Required)	Cattle			
Gender (Required)	Female			
Breed (Required)	Angus			
Number of Head	50			
Average Age (Required)	05/2010			
Optional Breed Information				
% Dairy Breed	0			
% Dual Purpose Breed	0			
% British or Continental Breed	100%			
% Tropical Breed	0			
Current Condition				
Spayed/Castrated (Y or N)	N			
Body Condition Score (1-9)	5			
Weight (lbs)	1102			
Days Lactating (Required)	150			
Days Pregnant (Required)	90			
Desired Average Daily Gain (lbs)	0			
Implant	None			
Internal Parasite Load (L M H)	L			
External Parasite Load (L M H)	L			

Feeds Used	Example	Feed 1	Feed 2
Feed Type	Tub		
% Crude Protein	22		
% Total Digestible Nutrients	83		
Cost per Ton ($)	400		
Amount Fed (lbs/head)	0.7		
Frequency of Feedings	Daily		
Feed Mitigation			
Minimum Amount Fed (lbs/head)	0.5		
Maximum Amount Fed (lbs/head)	1		

Comments

Pasture Name	Field 1	
Size (acres)	200	
% of forage allowed to be depleted	60	
Predominant Forage Type	Native Intermediate	
Adequately or Poorly Watered	Adequately Watered	
Slope (≤ 15° or > 15°)	< 15 Degree Slope	
Pasture Growth Rate (L M H)	M	
Ionophore	None	
Days in Grazing Period	30	
% Unrestricted Grazing	100	

Lab Use Only	
Sample #	
NIR File:	
Invoice #	Barcode
Check #	
Notes:	

Please only **ONE** sample per sample sheet. NUTBAL does not provide accurate results for nursing animals.
Please **do not** provide samples for animals **under** 6 months of age.

GAN Lab
Blackland Research Extension Center
720 East Blackland Road
Temple, TX 76502

Grazingland Animal Nutrition Lab

Phone: (254) 774-6134
Fax: (254) 774-6150
ganlab@brc.tamus.edu
http://cnrit.tamu.edu/ganlab

Client	
Name (First & Last):	
Address:	
City:	State: Zip:
Phone:	Fax:
Email:	
Contact Method (choose one):	[ ] Email [ ] Mail [ ] Fax

Ranch	
Name:	
Address:	
City:	State: Zip:
Phone:	Fax:

Date Collected:	

NRCS Agent or Technical Advisor	
Name:	
E-mail:	

Program
[ ] CSP [ ] Education [ ] Other [ ] None

Select Service
[ ] **Standard:** $35. Includes NIRS report & animal performance report
OR
[ ] **Advisory:** $70. Includes Standard & sample recommendations. Add $10 for each profile past 3rd.

Animal Attributes	Example	Profile 1	Profile 2	Profile 3
Herd ID	Cows 2010			
Species (Required)	Cattle			
Gender (Required)	Female			
Breed (Required)	Angus			
Number of Head	50			
Average Age (Required)	05/2010			
Optional Breed Information				
% Dairy Breed	0			
% Dual Purpose Breed	0			
% British or Continental Breed	100%			
% Tropical Breed	0			
Current Condition				
Spayed/Castrated (Y or N)	N			
Body Condition Score (1-9)	5			
Weight (lbs)	1102			
Days Lactating (Required)	150			
Days Pregnant (Required)	90			
Desired Average Daily Gain (lbs)	0			
Implant	None			
Internal Parasite Load (L M H)	L			
External Parasite Load (L M H)	L			

Pasture Name	Field 1	
Size (acres)	200	
% of forage allowed to be depleted	60	
Predominant Forage Type	Native Intermediate	
Adequately or Poorly Watered	Adequately Watered	
Slope (≤ 15° or > 15°)	< 15 Degree Slope	
Pasture Growth Rate (L M H)	M	
Ionophore	None	
Days in Grazing Period	30	
% Unrestricted Grazing	100	

Feeds Used	Example	Feed 1	Feed 2
Feed Type	Tub		
% Crude Protein	22		

↑	1	Very Emaciated
Caution	2	Emaciated
↓	3	Very Thin
↑	4	Thin
Optimal	5	Moderate
↓	6	Good
↑	7	Fat
Caution	8	Obese
↓	9	Very Obese

NIR File:	
Invoice #	Barcode
Check #	
Notes:	

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Client	
Name (First & Last):	
Address:	
City:	State: Zip:
Phone:	Fax:
Email:	
Contact Method (choose one):	[ ] Email [ ] Mail [ ] Fax

Ranch	
Name:	
Address:	
City:	State: Zip:
Phone:	Fax:

Date Collected:	

NRCS Agent or Technical Advisor	
Name:	
E-mail:	

Program
[ ] CSP [ ] Education [ ] Other [ ] None

Select Service
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Number of Head	50			
Average Age (Required)	05/2010			
Optional Breed Information				
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Implant	None			
Internal Parasite Load (L M H)	L			
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Feeds Used	Example	Feed 1	Feed 2
Feed Type	Tub		
% Crude Protein	22		
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Cost per Ton ($)	400		
Amount Fed (lbs/head)	0.7		
Frequency of Feedings	Daily		
Feed Mitigation			
Minimum Amount Fed (lbs/head)	0.5		
Maximum Amount Fed (lbs/head)	1		

Comments

Pasture		Pasture	Pasture Comments
Pasture Name	Field 1		
Size (acres)	200		
% of forage allowed to be depleted	60		
Predominant Forage Type	Native Intermediate		
Adequately or Poorly Watered	Adequately Watered		
Slope (≤ 15° or > 15°)	< 15 Degree Slope		
Pasture Growth Rate (L M H)	M		
Ionophore	None		
Days in Grazing Period	30		
% Unrestricted Grazing	100		

Lab Use Only	
Sample #	
NIR File:	
Invoice #	Barcode
Check #	
Notes:	

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Client	
Name (First & Last):	
Address:	
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Contact Method (choose one):	[ ] Email [ ] Mail [ ] Fax

Ranch	
Name:	
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Date Collected:	

NRCS Agent or Technical Advisor	
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Program
[ ] CSP [ ] Education [ ] Other [ ] None

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Animal Attributes	Example	Profile 1	Profile 2	Profile 3
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Number of Head	50			
Average Age (Required)	05/2010			
Optional Breed Information				
% Dairy Breed	0			
% Dual Purpose Breed	0			
% British or Continental Breed	100%			
% Tropical Breed	0			
Current Condition				
Spayed/Castrated (Y or N)	N			
Body Condition Score (1-9)	5			
Weight (lbs)	1102			
Days Lactating (Required)	150			
Days Pregnant (Required)	90			
Desired Average Daily Gain (lbs)	0			
Implant	None			
Internal Parasite Load (L M H)	L			
External Parasite Load (L M H)	L			

Pasture		Pasture	Pasture Comments
Pasture Name	Field 1		
Size (acres)	200		
% of forage allowed to be depleted	60		
Predominant Forage Type	Native Intermediate		
Adequately or Poorly Watered	Adequately Watered		
Slope (≤ 15° or > 15°)	< 15 Degree Slope		
Pasture Growth Rate (L M H)	M		
Ionophore	None		
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Feeds Used	Example	Feed 1	Feed 2
Feed Type	Tub		
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Minimum Amount Fed (lbs/head)	0.5		
Maximum Amount Fed (lbs/head)	1		

Comments

Lab Use Only	
Sample #	
NIR File:	
Invoice #	Barcode
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Notes:	

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Lab Processing and NIR

Sample Arrives and is assigned #

Sample is unboxed, And emptied into drying trays

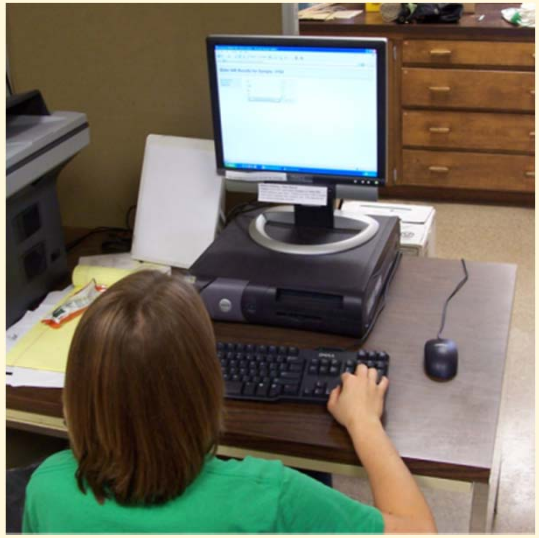
Fresh feces placed in oven overnight

Dried feces is ground 36 hrs later

NIRS Fecal Profiling Laboratory Procedures

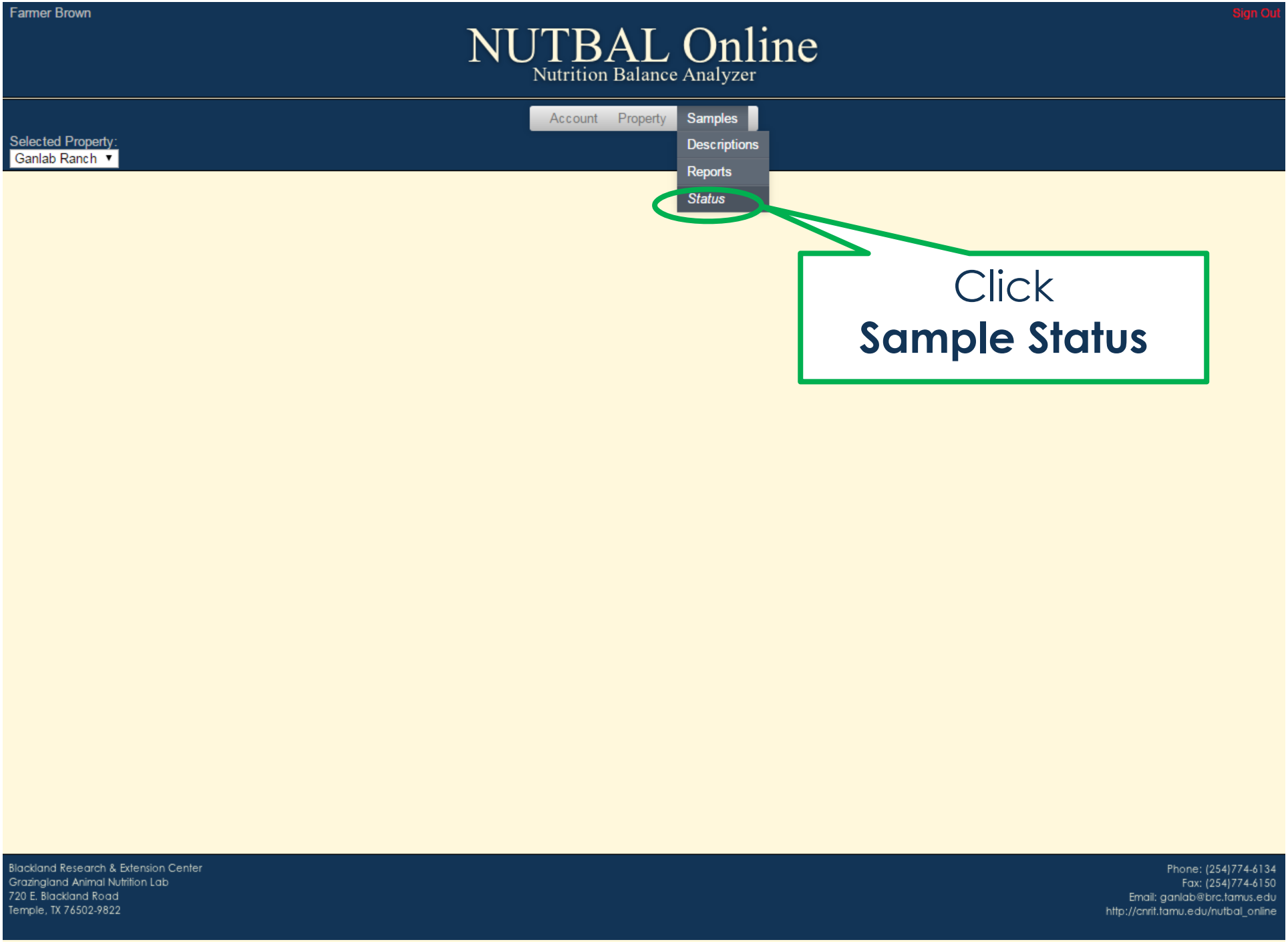
sample cups are prepared

Sample scanned with NIR spectrophotometer



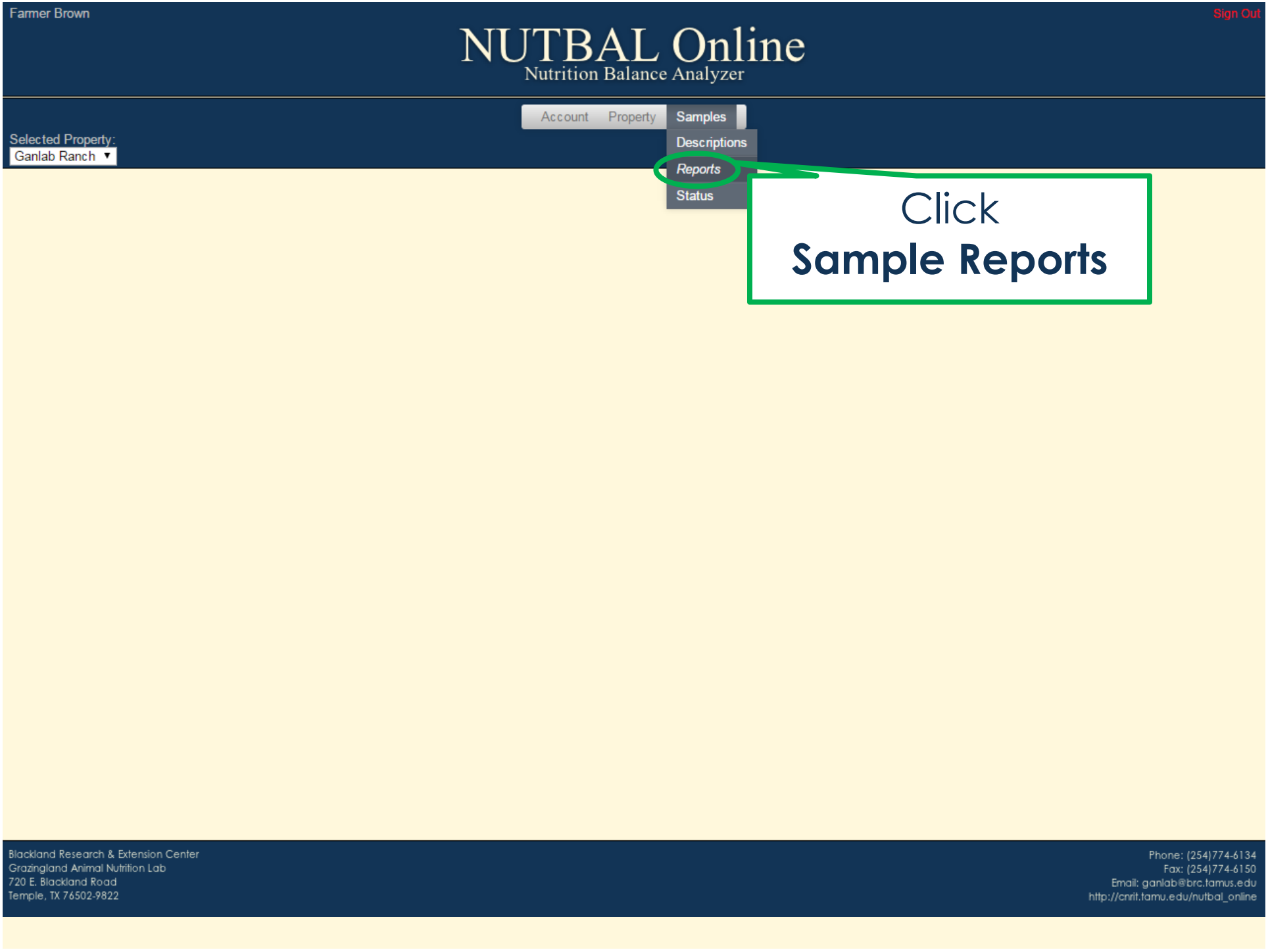
NUTBAL is run and results sent to producer

Accessing Sample Status and Results


Farmer Brown
Sign Out
NUTBAL Online
Nutrition Balance Analyzer
Account
Property
Samples
Descriptions
Reports
Status
Selected Property:
Ganlab Ranch
Click
Sample Status
Blackland Research & Extension Center
Grazingland Animal Nutrition Lab
720 E. Blackland Road
Temple, TX 76502-9822
Phone: (254)774-6134
Fax: (254)774-6150
Email: ganlab@brc.tamus.edu
http://cnrit.tamu.edu/nutbal_online

Sample Status

Sample #	Pasture	Created By	Progress	Collected	Created	Received	Report Sent
28590	Pasture 1	Cameron A	Finished	2014-05-21	2014-05-28	2014-05-28	2014-05-28
28588	Pasture 1	Client	Finished	2014-04-01	2014-05-27	2014-05-28	2014-05-28
28256	Pasture 1	Client	Finished	2014-04-01	2014-04-22	2014-04-21	2014-04-24


Farmer Brown
Sign Out
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Sample Reports
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Phone: (254)774-6134
Fax: (254)774-6150
Email: ganlab@brc.tamus.edu
http://cnrit.tamu.edu/nutbal_online

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account Property Samples

Selected Property:
Ganlab Ranch

Sample Reports

Submitted Paperwork *Sample Form* *Full Report* *Standard Report* *Mediation Report* *NIRS Report* *Advisory*

Sample #	Sample Date	Pasture	Animal Profile	Reports			NUTBAL Model
57257	2016-03-01	Pasture 1	Female Angus 2009-04 10647	Sample Not Processed			
28590	2014-05-21	Pasture 1	Female Angus 2009-04 10647		S	N	Re-Run Case
28588	2014-04-01	Pasture 1	Female Angus 2009-04 10647		S M	N	Re-Run Case
28256	2014-04-01	Pasture 1	Female Angus 2009-04 10647		S M	N	Re-Run Case
			Female Hereford -Med Frame 2010-04 10648		S M		

Farmer Brown

Sign Out

NUTBAL Online

Nutrition Balance Analyzer

Account | Property | Samples

Selected Property:
Ganlab Ranch

Sample Reports

Submitted Paperwork *Sample Form* *Full Report* *Standard Report* *Mediation Report* *NIRS Report* *Advisory*

Sample #	Sample Date	Pasture	Animal Profile	Reports	NUTBAL Model
57257	2016-03-01	Pasture 1	Female Angus 2009-04 10647	Sample Not Processed	
28590	2014-05-21	Pasture 1	Female Angus 2009-04 10647	S N	Re-Run Case
28588	2014-04-01	Pasture 1	Female Angus 2009-04 10647	S M N	Re-Run Case
28256	2014-04-01	Pasture 1	Female Angus 2009-04 10647	S M N	Re-Run Case
			Female Hereford -Med Frame 2010-04 10648	S M	

Jennifer Childers

Sign Out

NUTBAL Online
Nutrition Balance Analyzer

Account | Property | Samples | Administrator

Selected Property: Ganlab Ranch

Selected Client: Remove
Farmer Brown

Sample Description

Save Description | Upload Datasheet | Sample Form

Received 2014-05-28

Calculation Tools

Select New Sample to describe a new sample or an existing sample number to edit or delete.
Samples numbers are issued automatically by the server and cannot be changed. Received Samples cannot be deleted.

Select Sample: 28588 Cattle

Sample Date: 2014-04-01 *yyyy-mm-dd*

Advisory Requested:

Livestock | Pasture | Feeds | History

Head	Profile	Age (months)	Weight	BCS	Daily Gain	Discrepency
50	Female Angus 2009-04 10647	60	1095 lbs	5	0.2 lbs	

Select from the list above to edit or remove the existing details

OR

Select an available profile from the drop menu below and add

Add Profile | Remove Profile

Animal Profile: Choose one

Comments:

Animal Category: Choose one

Number of Head: 0

Frame Score: 0.0

Interpreting Reports

Case Report 28256

Farmer Brown
Ganlab Ranch
720 E. Blackland Road
Temple TX, 76502
Phone: (254)774-6134
Fax: (254)774-6150

Generated: 2016-3-10 15:01

Standard Report

Sample: *28256*
Date Collected: *2014-04-01*
Report Date: *2014-04-24*
Pasture Name: *Pasture 1*
Vegetation Type: *Native Range Intermediate Grass*

Profile Name: *Female Angus 2009-04 10647*
Animal Kind: *Cattle*
Animal Breed: *Angus*
Gender: *Female*

Current Animal Condition

Standard Ref. Wt.: *1165 lbs*
Weight: *1165 lbs*
Body Condition: *5.0 (1-9)*

Average Age: *5.0 Years*
Duration Pregnant: *30 days*
Duration Lactating: *120 days*

Current Weight and BCS based on Sample information provided

NUTBAL Online
Nutrition Balance Analyzer

Performance

Weight Change Goal: *0.3 lbs/day*
Predicted Weight Change: *1.9 lbs/day*
Performance Limited by: *Energy*

Weight in 30 Days: *1222 lbs*
Body Condition in 30 Days: *5.5 (1-9)*

Feeds Applied

Name:	Amount:	Crude Protein:	Total Digestible Nutrients:
20% Cubes, All Plant CP	*1.0 lbs daily*	*21.1%*	*84.2%*

NUTBAL Online
Nutrition Balance Analyzer

Performance Goal given by Producer

Performance

Weight Change Goal: *0.3 lbs/day*
Predicted Weight Change: *1.9 lbs/day*
Performance Limited by: *Energy*

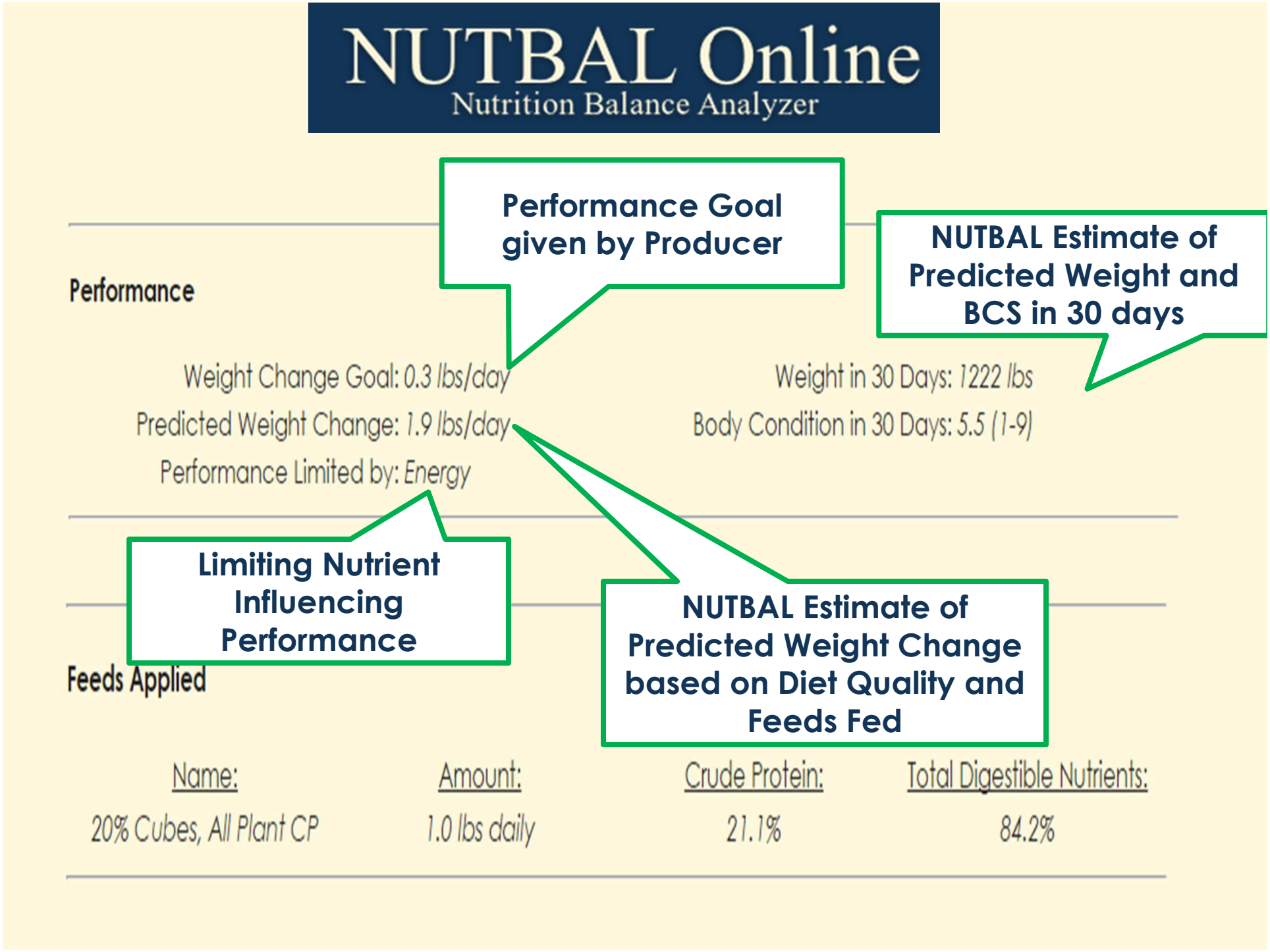
Weight in 30 Days: *1222 lbs*
Body Condition in 30 Days: *5.5 (1-9)*

Limiting Nutrient Influencing Performance

NUTBAL Estimate of Predicted Weight Change based on Diet Quality and Feeds Fed

Feeds Applied

Name:	Amount:	Crude Protein:	Total Digestible Nutrients:
20% Cubes, All Plant CP	*1.0 lbs daily*	*21.1%*	*84.2%*


NUTBAL Online
Nutrition Balance Analyzer
Performance Goal given by Producer
NUTBAL Estimate of Predicted Weight and BCS in 30 days
Performance
Weight Change Goal: 0.3 lbs/day
Predicted Weight Change: 1.9 lbs/day
Performance Limited by: Energy
Weight in 30 Days: 1222 lbs
Body Condition in 30 Days: 5.5 (1-9)
Limiting Nutrient Influencing Performance
NUTBAL Estimate of Predicted Weight Change based on Diet Quality and Feeds Fed
Feeds Applied
Name:
Amount:
Crude Protein:
Total Digestible Nutrients:
20% Cubes, All Plant CP
1.0 lbs daily
21.1%
84.2%

NUTBAL Online
Nutrition Balance Analyzer

Daily Nutritional Status

	Crude Protein	NEm	NEg
Intake:	4.67 lbs	24.64 Mcal	4.99 Mcal
Requirement:	2.36 lbs	16.47 Mcal	0.0 Mcal
Balance:	2.31 lbs	8.17 Mcal	4.99 Mcal

Daily Dry Matter Intake

	Intake	Percent of Std. Ref. Wt.	AUE
Concentrates:	0.95 lbs	0.08%	0.04
Roughage:	0.0 lbs	0.0%	0.0
Forage:	35.19 lbs	3.02%	1.35
Calf DM/d:	6.08 lbs	-	0.23
Total:	42.22 lbs	3.1%	1.62

NUTBAL Online
Nutrition Balance Analyzer

Protein Intake based on Diet Quality Sample and Supplemental Feeds Fed

Intake Requirement based on Animal Profile

	Crude Protein	NEm	NEg
Intake:	4.67 lbs	24.64 Mcal	4.99 Mcal
Requirement:	2.36 lbs	16.47 Mcal	0.0 Mcal
Balance:	2.31 lbs	8.17 Mcal	4.99 Mcal

Surplus or Deficit Protein

Daily Dry Matter Intake

	Intake	t.	AUE
Concentrates:	0.95 lbs	0.08%	0.04
Roughage:	0.0 lbs	0.0%	0.0
Forage:	35.19 lbs	3.02%	1.35
Calf DM/d:	6.08 lbs	-	0.23
Total:	42.22 lbs	3.1%	1.62

NUTBAL Online
Nutrition Balance Analyzer

Net Energy for Maintenance (Nem) Intake based on Diet Quality Sample and Feeds Fed

Net Energy is divided into that needed for maintenance and that available for gain

Daily Nutritional Status

	Crude Protein	NEm	NEg
Intake:	4.67 lbs	24.64 Mcal	4.99 Mcal
Requirement:	2.36 lbs	16.47 Mcal	0.0 Mcal
----------	----------	----------	----------
Balance:	2.31 lbs	8.17 Mcal	4.99 Mcal

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Calf DM/d:	6.08 lbs	-	0.23
----------	----------	----------	----------
Total:	42.22 lbs	3.1%	1.62

NUTBAL Online
Nutrition Balance Analyzer

Net Energy for Maintenance (Nem) Intake based on Diet Quality Sample and Feeds Fed

NEm requirement based on Animal Profile

Surplus or Deficit NEm – Need a Surplus here to have energy for gain

Daily Nutritional Status

	Crude Protein	NEm	NEg
Intake:	4.67 lbs	24.64 Mcal	4.99 Mcal
Requirement:	2.36 lbs	16.47 Mcal	0.0 Mcal
Balance:	2.31 lbs	8.17 Mcal	4.99 Mcal

Daily Dry Matter Intake

	Intake	Percent of Std. R	
Concentrates:	0.95 lbs	0.08%	0.04
Roughage:	0.0 lbs	0.0%	0.0
Forage:	35.19 lbs	3.02%	1.35
Calf DM/d:	6.08 lbs	-	0.23
Total:	42.22 lbs	3.1%	1.62

NUTBAL Online
Nutrition Balance Analyzer

Daily Nutritional Status

	Crude Protein	NEm	NEg
Intake:	4.67 lbs	24.64 Mcal	4.99 Mcal
Requirement:	2.36 lbs	16.47 Mcal	0.0 Mcal
----------	----------	----------	----------
Balance:		cal	cal

Net Energy for Gain (NEg). Amount available based on Diet Quality sample and feeds fed

Not all of the NEm Surplus is available for gain due to inefficiencies such a heat loss, methane production, etc

Daily Dry Matter Intake

	Intake	Percent of St	
Concentrates:	0.95 lbs	0.08%	
Roughage:	0.0 lbs	0.0%	
Forage:	35.19 lbs	3.02%	
Calf DM/d:	6.08 lbs	-	0.23
----------	----------	----------	----------
Total:	42.22 lbs	3.1%	1.62

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Nutrition Balance Analyzer

Daily Nutritional Status

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Intake:	4.67 lbs	24.64 Mcal	4.99 Mcal
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---	---	---	---
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Daily Dry Matter Intake

	Intake		AUE
Concentrates:	0.95 lbs	%	0.04
Roughage:	0.0 lbs	0.0%	0.0
Forage:	35.19 lbs	3.02%	1.35
Calf DM/d:	6.08 lbs	-	0.23
---	---	---	---
Total:	42.22 lbs	3.1%	1.62

Contributions of Pasture Forage, Hay, Supplemental Feeds, and the amount eaten by the calf to the total intake per day

NUTBAL Online
Nutrition Balance Analyzer

Daily Nutritional Status

	Crude Protein	NEm	NEg
Intake:	4.67 lbs	24.64 Mcal	4.99 Mcal
Requirement:	2.36 lbs	16.47 Mcal	0.0 Mcal
----------	----------	----------	----------
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Daily Dry Matter Intake

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Calf DM/d:	6.08 lbs	-	
----------	----------	----------	----------
Total:	42.22 lbs	3.1%	1.62

Percent of total intake by each component corrected to standard body weight

NUTBAL Online
Nutrition Balance Analyzer

Daily Nutritional Status

	Crude Protein	NEm	NEg
Intake:	4.67 lbs	24.64 Mcal	4.99 Mcal
Requirement:	2.36 lbs	16.47 Mcal	0.0 Mcal
----------	----------	----------	----------
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Daily Dry Matter Intake

	Intc	Wt.	AUE
Concentrates:	0.95		0.04
Roughage:	0.0		0.0
Forage:	35.19		1.35
Calf DM/d:	6.08		0.23
----------	----------		----------
Total:	42.22 lbs	3.1%	1.62

Intake for each constituent calculated as Animal Unit Equivalent (AUE)

NUTBAL Online
Nutrition Balance Analyzer

Daily Nutritional Status

	Crude Protein	NEm	NEg
Intake:	4.67 lbs	24.64 Mcal	4.99 Mcal
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---	---	---	---
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Roughage:	0.0 lbs	0.0%	0.0
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Calf DM/d:	6.08 lbs	-	0.23
---	---	---	---
Total:	42.22 lbs	3.1%	1.62

Nutritional Requirements

- Maintenance
- Reproduction
- Lactation
- Growth
- Work (e.g.,draft animals)
- Fiber production

NUTBAL Online
Nutrition Balance Analyzer

Contribution to Diet Quality from the Forage Sample (Fecal NIRS Analysis)

Consumption of Energy For All Constituents (Forage, Hay, and Concentrates)

Diet Quality

	Overall	Forage
CP Consumption:	*12.93%*	*12.71%*
DOM Consumption:	*63.36%*	*62.32%*
DOM / CP Ratio:	*4.9*	*4.9*

Daily Milk Production

Potential: *14.46 lbs*
Actual: *14.46 lbs*

Daily Fecal Output

Total: *12.32 lbs*
Phosphorus: *0.07 lbs*
Nitrogen: *0.15 lbs*

NUTBAL Online
Nutrition Balance Analyzer

Nutritional Mediation Report

Sample: *28256*
Pasture: *Pasture 1*
Date Collected: *2014-04-01*
Report Date: *2014-04-24*
Period Duration: *30 days*

Profile Name: *Female Angus 2009-04 10647*
Animal Kind: *Cattle*
Animal Breed: *Angus*
Gender: *Female*
Profile Size: *50 head*

Sensitivity Analysis

As Fed Basis

Feed	Current Cost per ton	Required Cost/ton to be selected
20% Cubes, All Plant CP	$100.00	$0.00

Diet Nutrients Per Day Per Animal

100% Dry Matter Basis

	Crude Protein	NEm	NEg
Intake	4.67 lbs	24.64 Mcals	4.99 Mcals
Requirement	2.36 lbs	16.47 Mcals	0.0 Mcals
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Balance	2.31 lbs	8.17 Mcals	4.99 Mcals

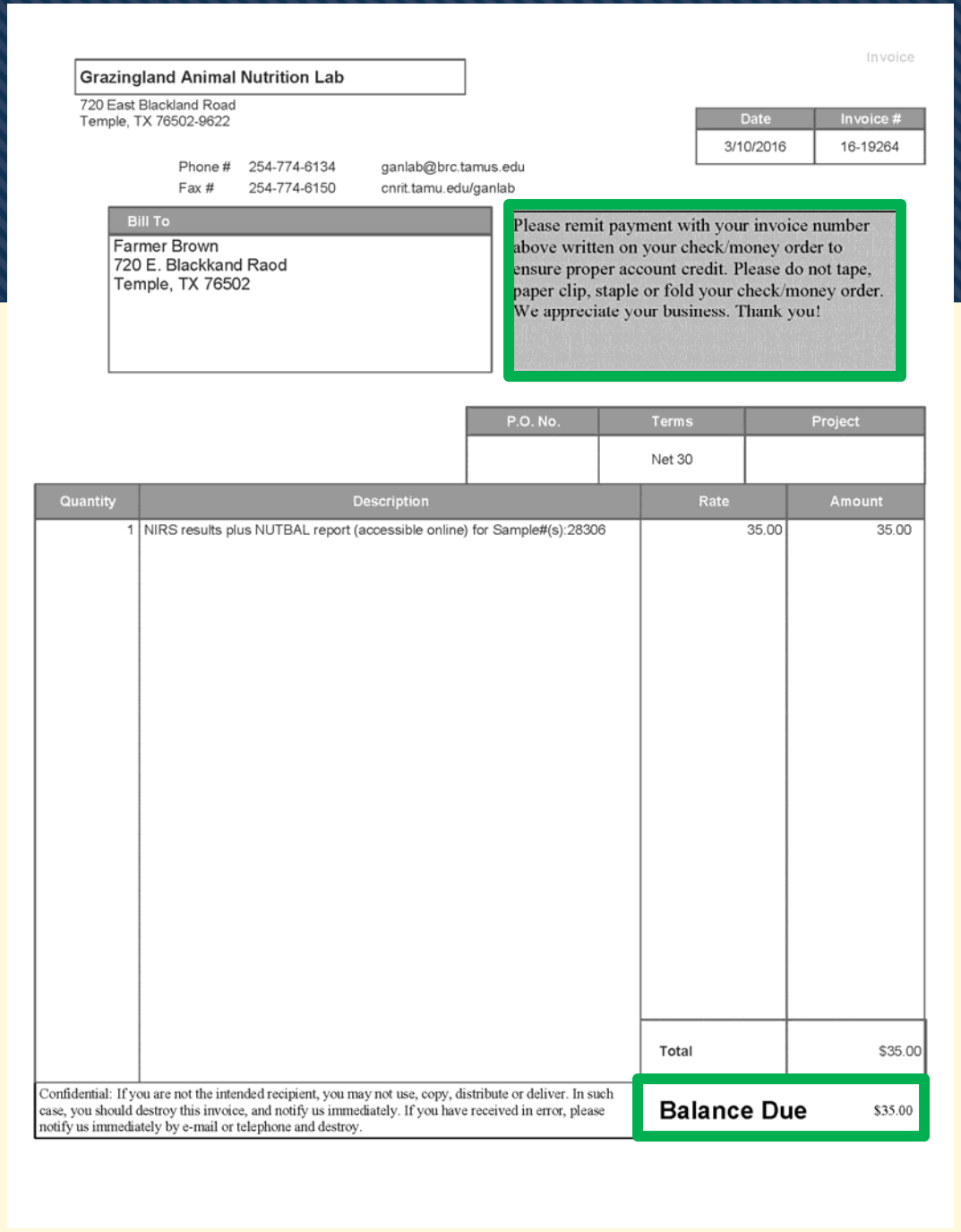
NUTBAL Online
Nutrition Balance Analyzer

Model Weather

	Temp Max	Temp Min	Humidity	Wind	Daylight
7 day Average:	*69° F*	*40° F*	*57%*	*8 mph*	*10.6 hrs*
30 day Average:	*61° F*	*37° F*	69%	-	-

Invoicing and Payment

- Once the lab has completed the processing and report is generated, it will be sent to you via your selected contact method.
- It is strongly recommended to send payment after receiving invoice, not with the sample. Checks can get lost in the packing or become ruined by leaking samples



Invoice

Grazingland Animal Nutrition Lab
720 East Blackland Road
Temple, TX 76502-9622

Phone # 254-774-6134 ganlab@brc.tamus.edu
Fax # 254-774-6150 cnrit.tamu.edu/ganlab

Date	Invoice #
3/10/2016	16-19264

Bill To
Farmer Brown
720 E. Blackkand Raod
Temple, TX 76502

Please remit payment with your invoice number above written on your check/money order to ensure proper account credit. Please do not tape, paper clip, staple or fold your check/money order. We appreciate your business. Thank you!

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
1	NIRS results plus NUTBAL report (accessible online) for Sample#(s):28306	35.00	35.00
		Total	$35.00

Confidential: If you are not the intended recipient, you may not use, copy, distribute or deliver. In such case, you should destroy this invoice, and notify us immediately. If you have received in error, please notify us immediately by e-mail or telephone and destroy.

Balance Due $35.00

Thank you for your attention!

Contact Information

GAN Lab
Blackland Research & Extension Center
720 E. Blackland Road
Temple, TX 76502-9622
ganlab@brc.tamus.edu
254-774-6134
254-774-6150 fax