



NutbalPro 101

Training Case Tutorial

- NUTBAL PRO 101 is a basic case that introduces first time users to the program.
- We will learn to create a new ranch, describe a herd using default breedtypes, etc., and enter the first case for this herd.
- New users need to pay attention to the sequence in which information is entered and buttons are clicked.
- The Organization of NUTBAL PRO:
 - ✓ Client (or ranch)
 - ✓ Herd
 - ✓ Date
 - ✓ Profile
 - ✓ Case

Case Information

2

The Pro 101 Ranch has 50, five year old Angus cows. As of today's date, these cows are in a body condition score of 5, at 150 days of lactation, 70 days pregnant, and their calves weigh 400 lbs. They are in a pasture with adequate forage, moderate slope and good water distribution. They are not being fed at this time. Diet quality is 10% crude protein and 60% digestible organic matter. Fecal N is 1.2% and fecal P is .25%. Thirty days ago, the average high temperature was 85°F, the average low was 55°F and the humidity was 50%. Current conditions are 90°, 65°, and 50% respectively. Wind is 5mph.

What is the crude protein balance?

What is the projected average daily gain or loss?

What is the projected BCS in 30 days?

How much forage dry matter intake is predicted?

- Take this information and fill out the sample sheet.
- Note that we only need one profile to describe this herd.
- We will answer the questions using the NUTBAL standard balance report once we have ran the case.

NUTBAL-PRO English (Press F1 for Help)

About NUTBAL-PRO

Enter Client | Enter Case | Animals, Feeds, MetMods, Utils | Reports

Client Ranch Name: Pro 101

Contact: Joe Rancher

Address1: 123 4th Street

Address2:

City: Youtown

State: TX

Postal Code: 77777

Country: USA

Phone: 111-555-9999

Fax: 111-555-8888

E-Mail: jrancher@nutbal.com

Latitude in decimal degrees:

Longitude in decimal degrees:

Add Client | Update Client

Delete Client | Undo Client Changes

NUTBAL-PRO English

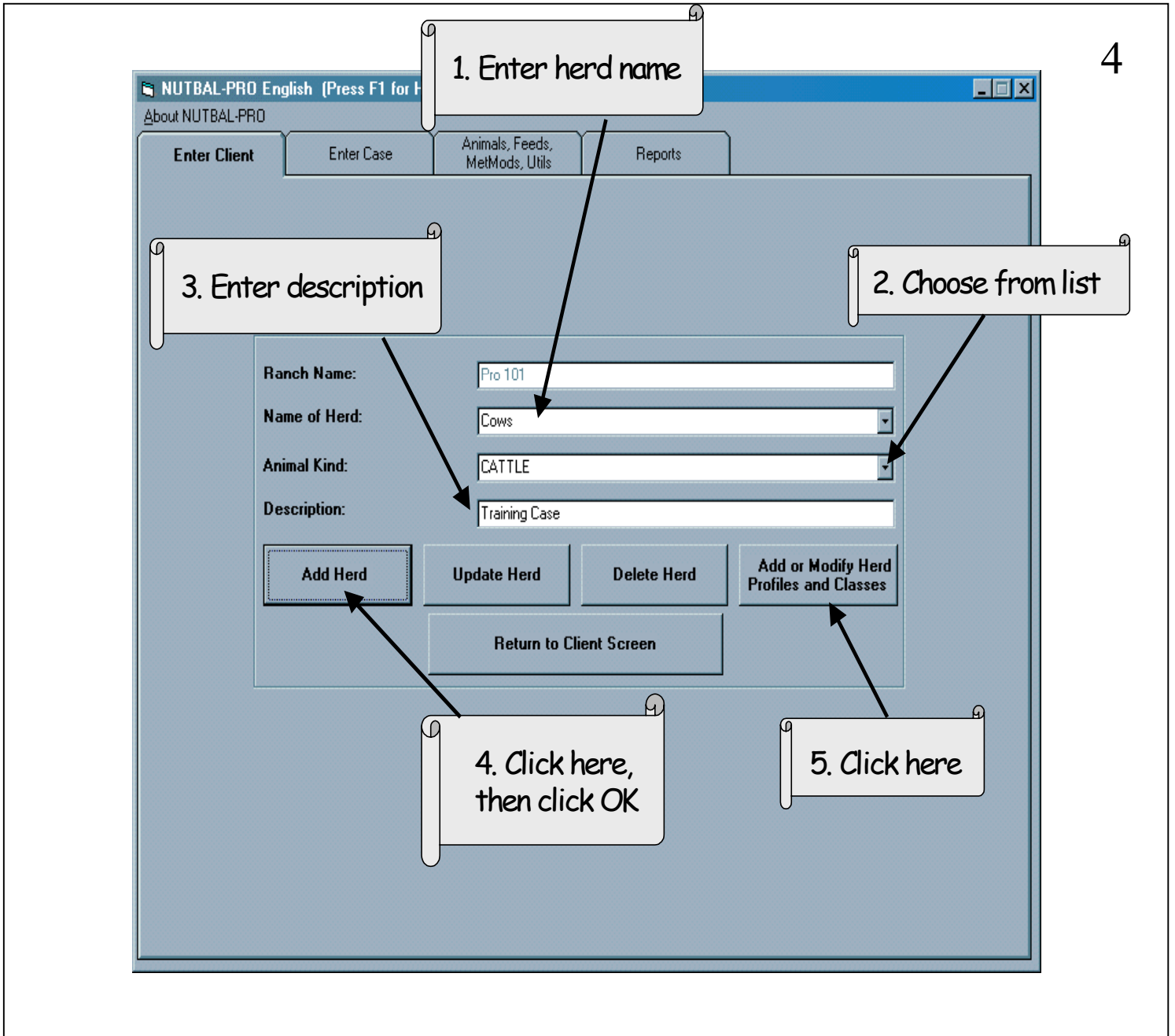
Configure Herd Groups

1. Enter Client/Ranch name, etc...

2. Click here, then click OK

3. Click here

- Only the Client Ranch Name is required.
- Configure Herd Groups - to set up the different profiles within the herd(s) for this ranch.



- To Create a new herd: Let's name and describe the herd.
- Next we will develop the profile(s) within the herd.
- For *Future* reference: when entering next month's sample, you would need to come to this screen first in order to add more dates and profiles.

8. Click here

1. Enter date

2. Name profile

3. Choose from list

4. Enter information

5. Choose BCS system

6. Enter value for weight OR body condition score, then tab.

7. Click here, then click OK

- Here we are creating a profile of the herd.
- This information will help determine the cattle's nutritional requirements.
- Note the Ranch name and Herd, always check that you are entering information under the right ranch and herd.
- The date can be the date the sample was collected.
- We will use in this example the default breedtype for Angus.
- For *Future* reference: Note in #4 that this information will have changed when you run the next case in a month. So you will come in and add a new profile under a new date changing days of pregnancy, etc.

The screenshot shows the 'Enter Case' form in the NUTBAL-PRO software. The form includes the following fields and buttons:

- Select Ranch:** A dropdown menu with 'Pro 101' selected.
- Herd:** A dropdown menu with 'Cows' selected.
- Select Herd Date:** A date picker showing '08/23/2000'.
- Case Name:** A dropdown menu with 'Cow 101' selected.
- Case Description:** A text input field containing 'Training Case'.
- Buttons:** 'Input Case Information', 'Clear Case Parameters', and 'Delete Case'.

Five numbered callouts provide instructions:

- 1. Choose from list:** Points to the 'Select Ranch' and 'Herd' dropdown menus.
- 2. Click on date:** Points to the 'Select Herd Date' date picker.
- 3. Name case:** Points to the 'Case Name' dropdown menu.
- 4. Describe case:** Points to the 'Case Description' text input field.
- 5. Click here:** Points to the 'Input Case Information' button.

- Let's set up the case:
- The Herd Date refers to the date used in Slide 5. It links the profile with the case information. Make sure you have the one you want highlighted.
- Think of a case as describing the conditions for one point in time.
- Note: The drop down list for Case Name will show ALL the cases you have entered for that herd, so use the case name or description to help you match the correct case to the date selected.

NUTBAL-PRO English (Press F1 for HELP)

About NUTBAL-PRO

Enter Client **Enter Case** Animals, Feeds, MetMods, Utils Reports

Case: Cow 101 Ranch: Pro 101 Herd: Cows Date: 08/23/2000

Response Adjustments Metabolic Modifiers **Forage/Fodder Diet Quality** Environmental Conditions Pasture Conditions Feedstuff Allocation

2. Click here

1. Enter information

Type of Sample: FECAL

Lab Analysis ID: 12345

Crude Protein [%]: 10

Digestibility [% DOM]: 60

DOM to CP Ratio: 6.00

Rumen degradable protein DIP [% of CP]: 49.16

Degradable By-Pass Protein DUP: 40.67

Fecal N [%]: 1.2

Fecal P [%]: .25

Clear Current Screen

Add Case Update Case Delete Case Undo Case Changes Run Case Analysis Return to Main Case Screen

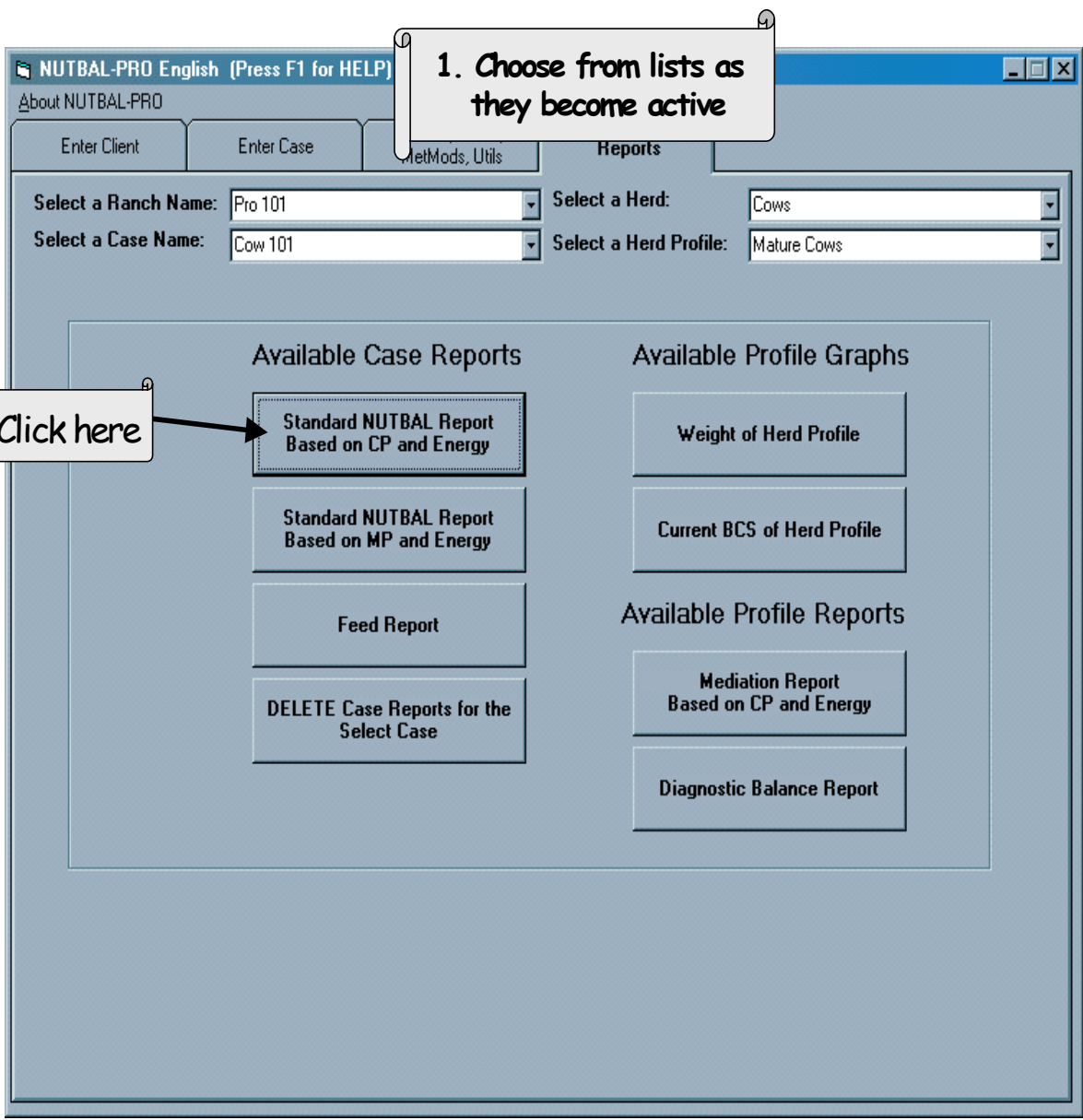
- The Case:
- These 6 tabs asks for information that calculates the animal's intake and requirements.
- For now NUTBAL PRO 101, we will work with just the diet quality and environmental conditions.
- Notice that some of the fields already have defaults. Change these only if applicable. This program is used internationally, so we have fields that suited for other methods of livestock production and use.
- Remember that more guidelines are available by clicking on the field in question and hitting F1.

The screenshot shows the NUTBAL-PRO software interface. At the top, there are buttons for 'Enter Client', 'Enter Case', 'Animals, Feeds, MetMods, Utils', and 'Reports'. Below these are input fields for 'Case: Cow 101', 'Ranch: Pro 101', 'Herd: Cows', and 'Date: 08/23/2000'. The main area is divided into tabs: 'Response Adjustments', 'Metabolic Modifiers', 'Environmental Conditions', 'Pasture Conditions', and 'Feedstuff Allocation'. The 'Environmental Conditions' tab is active, showing a dropdown for 'Activity' set to 'ADEQUATELY WATERED PASTURE, <= 15% SLOPE'. Below this is a table of conditions:

CONDITIONS	PREVIOUS 30-DAYS	CURRENT
Maximum Temperature (F):	85	90
Minimum Temperature (F):	55	65
Mean Daily Humidity (%):	50	50

Below the table are input fields for 'Windspeed (mph): 5', 'Coat Condition: DRY', 'Night cooling: Y', 'Direct Sunlight Exposure (hrs): 8', 'Hours Access to Grazing/Feed at Night: 12', 'Work Intensity: NONE', and 'Hours of Work: 0'. A 'Clear Current Screen' button is located below these fields. At the bottom, there are buttons for 'Add Case', 'Update Case', 'Delete Case', 'Undo Case Changes', 'Run Case Analysis', and 'Return to Main Case Screen'. Five callout boxes provide instructions: 1. Enter information (points to Activity), 2. Enter wind speed (points to Windspeed), 3. Click here, then click OK (points to Add Case), 4. Click here, wait for small screen to flash across (points to Run Case Analysis), and 5. Click here (points to Reports).

- Be sure to click on Run Case Analysis.



- Now we are ready to view reports.

The screenshot displays a software window titled 'STANDARD BALANCE REPORT'. The window has a standard Windows-style title bar with minimize, maximize, and close buttons. The main content area shows a detailed report for a cow named 'Pro 101'. The report is divided into several sections: Case Information, Vegetation, Nutritional Status, Performance, Dry Matter Intake, Diet Quality, and Milk. Callouts with arrows point to various UI elements: 'Print report' points to the printer icon in the toolbar; 'Change view size' points to the zoom percentage dropdown (64%); 'Save report to Word, ASCII file, etc...' points to the save icon; and 'Close' points to the close button in the title bar.

Case Information
 Ranch Name: Pro 101

Vegetation:
 Pasture ID:
 Animal Kind: CATTLE
 Animal Class: COW 60-7 MONTHS
 Breedtype: A K G U S
 Standard Ref. Wt. (lbs): 1094.870
 Current Weight (lbs): 1094.868
 Current Body Condition: 5.00
 Days Lactating: 150
 Days Pregnant: 70

Nutritional Status	In Take	Requirement	Balance
Crude Protein (lbs)	3.064	2.220	0.836
ME (Mcal/day)	19.570	16.436	3.143
ME (Mcal/day)	1.843	0.000	1.843

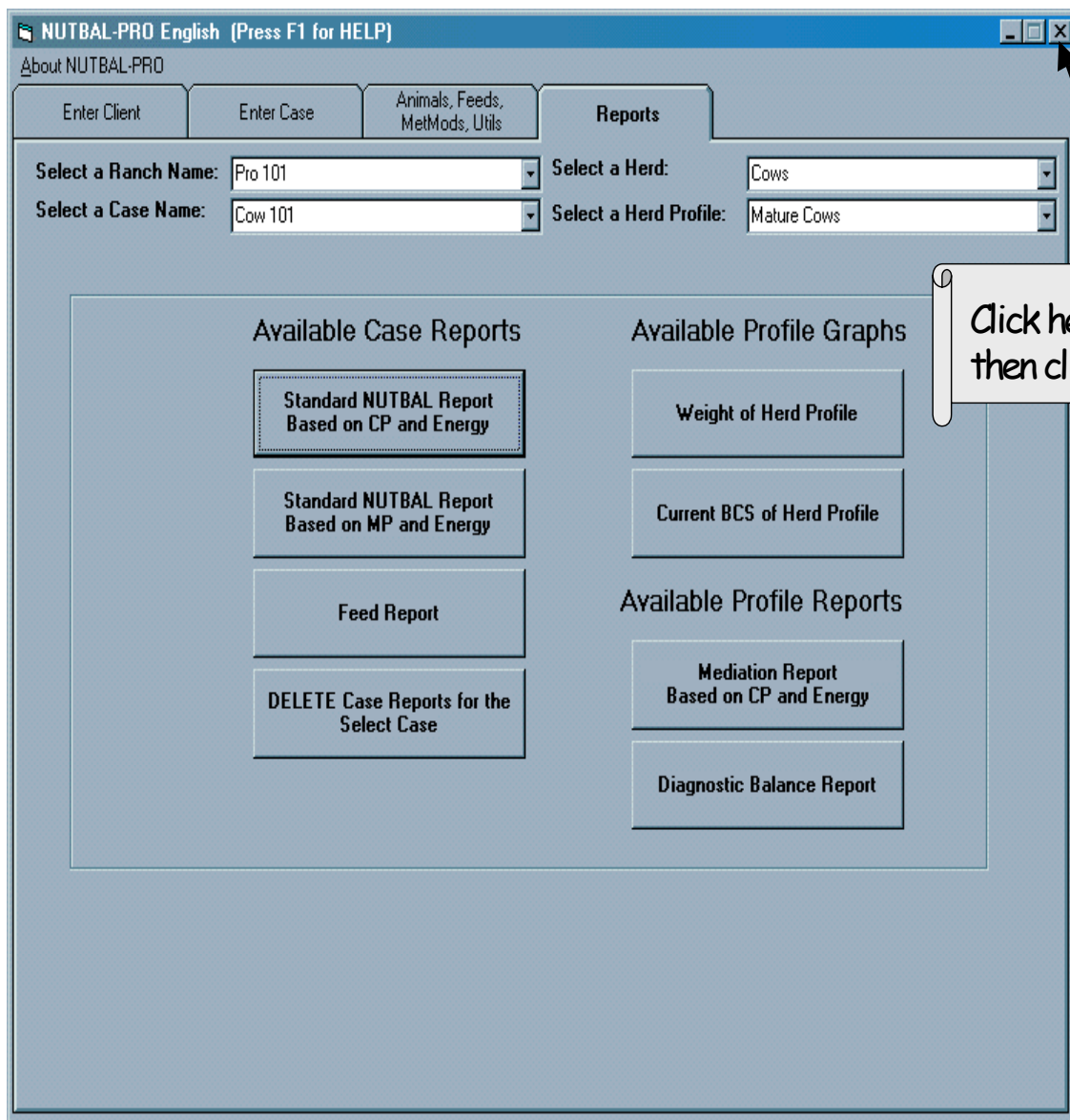
Performance
 Weight Performance goal in lbs/day: 0.000
 Estimated weight change in lbs/day: 0.871
 Estimated body condition in 30 days: 5.26
 Performance Linked By: E H E R D Y

Dry Matter Intake	lbs	% Std. Ref. Wt.	AME
Concentrates:	0.000	0.000	0.000
Roughage:	0.000	0.000	0.000
Forage:	30.644	2.799	1.170
Sub Total:	30.644	2.799	1.170
Cal P D Wts:	6.487		0.240
Total:	37.131	2.799	1.428

Diet Quality	Overall	Forage
CP consumption (%):	10.00	10.00
DOM consumption (%):	60.00	60.00
DOM if CP ratio:	6.00	6.00

Milk	Fecal
Potential Milk Production (lb/day): 12.77	Estimated Fecal Output (lb/day): 11.3384
Actual Milk Production (lb/day): 12.77	Fecal P Output (lb/day): 0.0283
	Fecal N Output (lb/day): 0.1361

- Viewing the report:
- NUTBAL PRO uses Crystal Report Writer to generate reports.
- From here, you can send the report directly to the computer's printer, save as a file, or send to an application (MS Word for example) to add your comments or edit formatting.
- If working with more than one profile, click on the arrows in the upper left hand corner to move between pages.



- You have successfully completed NUTBAL PRO 101.