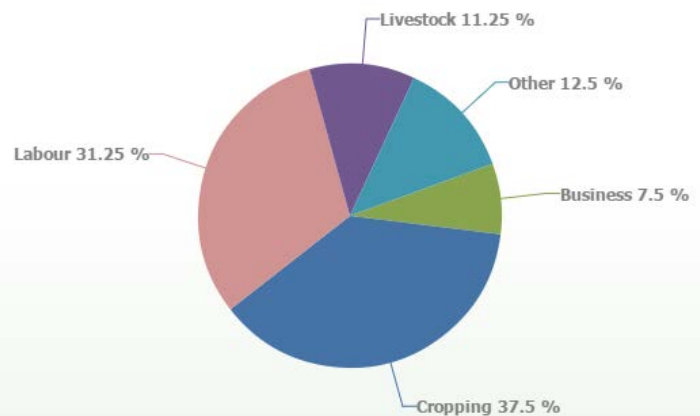


FEAST Data Application user manual



Major Sources of Income by Activity Category



Edit Gendered Focus Group Data (Male) FEAST DataApplication

Focus Group: 3/14/2019 ILRI campus Conference Room

General / Farm / Household Size / Seasons / Rainfall / Feed / Context Issues / Agro-Economic Data / Labour / Interview Data

Feed / Context Issues

What Best Describes the Agricultural System?

Core Commodity of Interest to Community

Core Context Attribute / Feed Issue Ratings On a Scale of 0 to 4

Attribute	Score	Reference
Availability of cash / credit (4 = best)	3	Question 1.8 FEAST discussion
Availability of input delivery (4 = best)	2	Question 1.10 FEAST discussion
Availability of knowledge / skill (4 = best)	2	Based on facilitator's best judg
Availability of labour (4 = best)	1	Question 1.6 FEAST discussion
Availability of land for fodder cultivation (4 = best)	3	Question 1.9 FEAST discussion
Availability of water in growing season (4 = best)	4	Question 1.5.2 FEAST discussion
Is energy / protein shortage a problem? (0 = no, 4 = serious problem)	2	Based on facilitator's best judg
Is quantity a problem? (0 = no, 4 = serious problem)	3	Based on facilitator's best judg
Is scarcity of feed in the dry/cool season a problem? (0 = no, 4 = serious problem)	3	Based on facilitator's best judg






Version: 16 March 14, 2019



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Citation: ILRI. 2015. Feed Assessment Tool (FEAST) focus group discussion guide. Nairobi: ILRI

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Introduction

Approximately 500 million smallholder farmers provide food for over 2 billion people worldwide. Feed for livestock is often cited as the main constraint to improved productivity for smallholder farms. Overcoming this constraint often seems an elusive goal as intervention programs tend to adopt a scattergun or trial-and-error approach which often fails to adequately diagnose the nature of the feed problem and therefore the means to deal with it.

The Farmer-Centred Diagnosis methodology provides a means to systematically and rapidly assess feed resources at site level with a view to developing a site-specific strategy for improving feed supply and utilization through technical or organizational interventions.

Part of the Farmer-Centred Diagnosis approach involves using the Feed Assessment Tool (FEAST), a set of forms and spreadsheets to help collect and analyze data related to local conditions and agricultural practices.

Components of the FEAST Tool

- Focus Group Discussion Guide
- Individual Farmer Interview Questionnaire
- FEAST Data Application Manual
- FEAST Data Application

More information: <https://www.ilri.org/feast>

FEAST Data Application Overview

The FEAST Data Application is a software utility for collecting and analyzing data related to smallholder farming communities' livestock feed resources. It is intended for use in conjunction with the Farmer-Centred Diagnosis research methodology, which involves holding focus group discussions and one-on-one interviews with farmers to get their input on local conditions, feed-related problems and potential solutions. If you are unfamiliar with the Farmer-Centred Diagnosis methodology, we would recommend visiting the International Livestock Research Institute's website at www.ilri.org/feast for additional information and online training materials.

Minimum System Requirements

The FEAST Data Application can be used with any computer installed with one of the following versions of Microsoft Windows

- XP (service pack 2)
- Vista
- 7
- 8
- 10

If you wish to make use of the Excel export feature (optional, but recommended), you will need a copy of Microsoft Excel 2007 or later.

Initial Setup

Installation

The FEAST Data Application is designed to run without the need to install it as a program in Windows.

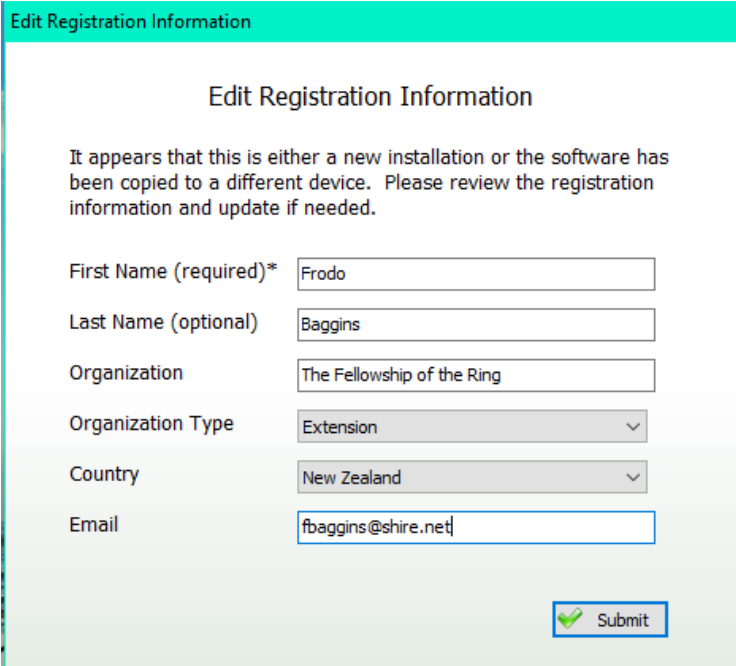
Just download one of the installation packages from www.ilri.org/feast, unzip the contents to any folder on your computer's hard drive or a removable USB drive, then double-click "launch_feast.bat" and it should run.

Some notes regarding installation:

- Always launch the program using "launch_feast.bat". Do not click any of the files inside the "feast_data_app" folder directly.
- While we strongly recommend installing a fresh copy from the original installation package, you can also copy the entire application from one directory or one computer to another. Just be sure to include the "launch_feast.bat" file and the "feast_data_app" folder.
- Most versions of Windows have a 260-character limit on path names. Some of the paths within the "feast_data_app" folder are close to 100 characters long. So you might encounter problems if you try to install the program to a folder with a very long path name (e.g., *"My Documents\work documents\research projects\livestock feed intervention projects\software utilities\FEAST Data Application\version \..."*)
- Because the FEAST Data Application runs without being formally installed and registered, a few of the more sensitive antivirus programs might regard it as suspicious activity, or even mistake it for a virus or malware. If your antivirus blocks the app from launching or if the application fails to launch, you may wish to try adding the directory where the application is installed to your exceptions list or telling the antivirus software to accept the file as secure. If neither of these options work, you can try disabling antivirus during installation then reactivating it afterwards. If you still have issues, contact ILRI for support.

Registering Your Copy

The first time you run a new copy of the FEAST Data Application, you will be prompted to enter your name, email address and some details about the organization you work with.



Edit Registration Information

Edit Registration Information

It appears that this is either a new installation or the software has been copied to a different device. Please review the registration information and update if needed.

First Name (required)*

Last Name (optional)

Organization

Organization Type

Country

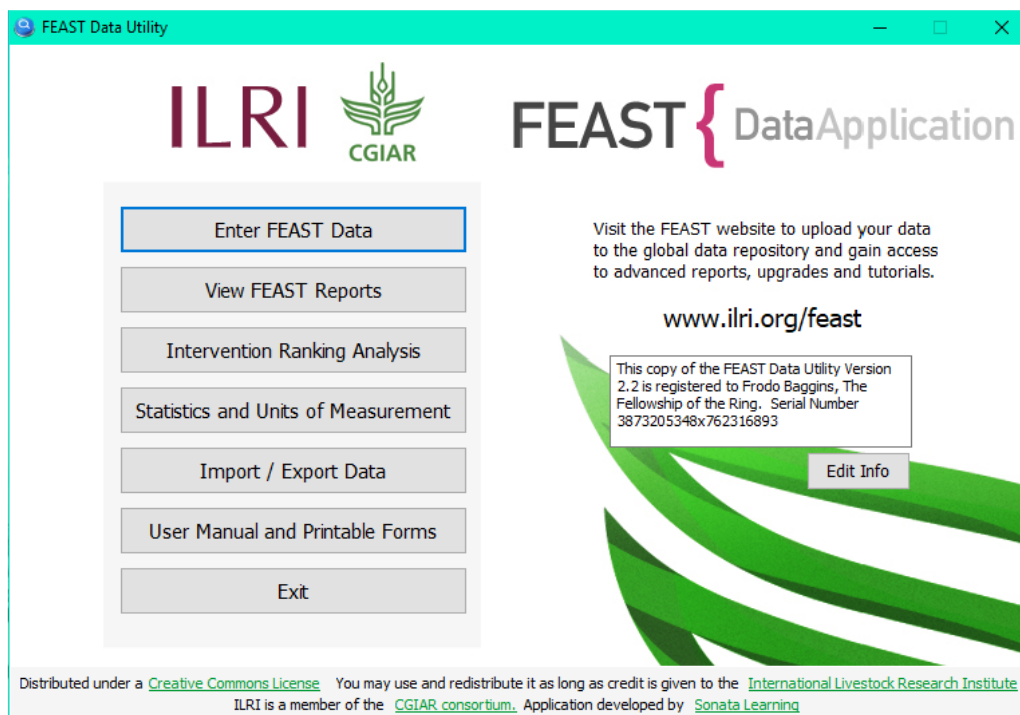
Email

Some notes regarding registration:

- If you copy the FEAST Data Application from another computer, rather than doing a fresh install, the fields in the registration window will be pre-filled with data from the original copy. You can keep or change this information, but either way a new serial number will be assigned to the new copy
- You will be required to enter your name, email address, the name of the organization, and your country. While the type of organization is not required, we would appreciate it if you filled it in, as it helps with our data collection efforts
- ILRI/CGIAR will keep all of your personal contact information private, and not share it with other organizations

Getting Started: The Home Menu

After registering your copy, the first thing you will see upon launching the FEAST Data Application is the home menu.



You may select from the following options:

- **Enter Data** – Create projects, add sites and enter data from focus group discussions and individual farmer interviews
- **View FEAST Reports** – View charts, graphs and tables of key statistics based on the data you entered.
- **Intervention Ranking Analysis** – View a special report that suggests potential interventions based on survey data entered into the app.
- **Statistics and Units of Measurement** – Add new crops, livestock species, units of weight and mass and other custom values for use when entering data.
- **Import / Export Data** – You may export data to a compressed file which may then be imported into a different copy of the FEAST Data Application or uploaded/emailed to the worldwide FEAST data repository at www.ilri.org/feast

- **User Manual and Printable Forms** – Contains links to PDF copies of this manual plus the discussion guide and questionnaire used for collecting data from focus groups and farmer interviews as part of the Farmer-Centred Diagnosis methodology.
- **Exit** – Close the FEAST Data Application
- **Edit Info** – You may edit the name, email and organization information associated with this copy of the FEAST Data Application. Doing so will not change the serial number.

Entering Data

Data in the FEAST Data Application is organized per the following hierarchy:

- **Project** – A collection of related Farmer-Centred Diagnosis data, grouped in any way that makes sense to you. For instance, you might have a project devoted to sites in a particular country or to communities with a particular core agricultural commodity or livestock production system or to research conducted with a particular partner organization.
- **Site** – A general geographic area in which focus group discussions are held. It may be defined as widely as a province/state or as narrowly as an individual community. The only stipulation is that communities in a site must share the following:
 - *Country* – all communities associated with the site must be located in the same country
 - *Currency* – all communities associated with the site must use the same currency
 - *Nutritional value of pasture and collected feed* – all communities associated with the site must have similar naturally occurring forage, to ensure that comparisons of animal nutrition are equivalent
- **Focus Group** – Data collected from meetings of local farmers related to livestock feed resources, agriculture and livestock production systems, etc.
- **Interview Respondent** – Data collected from one-on-one interviews with participants in a focus group including the farmer's livestock holdings, crops grown on the farm, feed purchases, income from milk and livestock sales, etc.

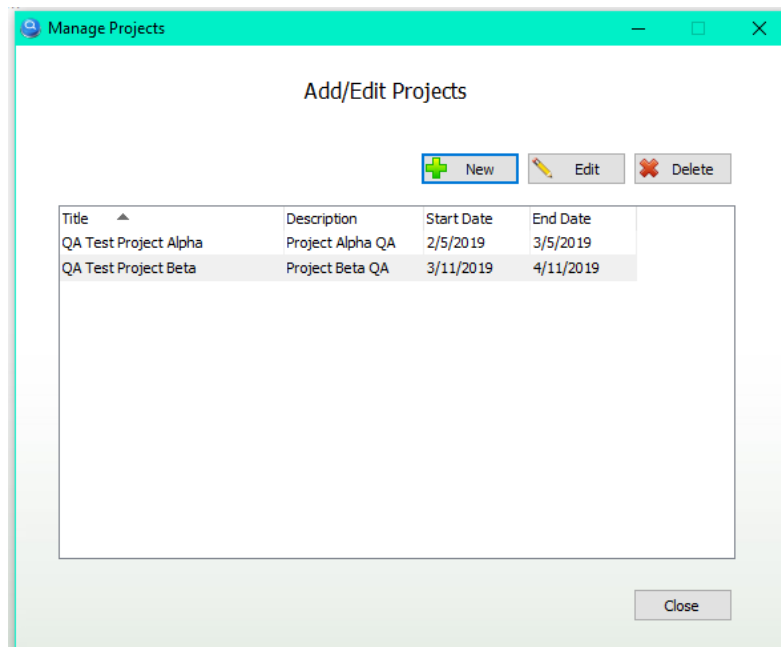
The Entering Data menu option on the home menu will open a form where you may select a project and site or add new projects/sites, then add or edit focus groups.

The screenshot shows a web application window titled "Data Collection". Inside, the "Enter Data" section has the FEAST DataApplication logo. It features three dropdown menus: "Select Project", "Select Site", and "Select Focus Group". The "Select Project" dropdown has an "Add/Edit Projects" button next to it. The "Select Focus Group" dropdown has "New", "Edit", and "Delete" buttons next to it. Below the dropdowns is a table with five columns and one row. A scrollbar is visible at the bottom of the table. A "Close" button is located at the bottom right of the window.

When entering data, you must proceed in the order of the hierarchy. That is, you must create a project before you can add sites and you must create a site before you can add focus groups. If you attempt to add a focus group without an associated site, the system will prompt you to select a site before proceeding.

Creating and Managing Projects

Click the Add/Edit Projects button to define new projects or edit or delete existing projects.



Selecting a project then clicking “Delete” will permanently erase the project as well as all sites, focus groups and individual interview respondents associated with that project!

Click ‘New’ or ‘Edit’ to open a form where you can enter or update details for the project.

Edit Project Information

Title*

Description

Start Date* ☒ Tuesday , February 5, 2019

End Date (Optional) ☒ Tuesday , March 5, 2019

Partner Organization(s)

Sites

Site Name	Country
Addis Campus	Ethiopia

The fields Title and Start Date are required, all others are optional.

Adding and Updating Sites

At the bottom of the project form there is another grid for adding, updating or deleting sites to the project.

Again, selecting a site and clicking “Delete” will **permanently** erase **all** data for the site and any focus groups and individual interview respondents related to the site.

Clicking “Add” or “Edit” will open a form for entering details about the site.

Edit Site Information FEAST DataApplication

Name* *The following details may be changed at the focus group level.*

Description

World Region*

Country*

Local Currency* (=0 USD [Set Exchange Rate](#))

Major Region (e.g., State/Province)

Minor Region (e.g., County)

Sub-Region

Village / Community

Community Type [Define New Type](#)

Local Fodder Resource Data

Grazing Metabolisable Energy MJ/KG (Default 9)

Grazing Crude Protein Percentage (Default 8%)

Collected Fodder Metabolisable Energy MJ/KG (Default 10)

Collected Fodder Crude Protein Percentage (Default 8%)

Local Custom Feed Sources

[New](#) [Edit](#) [Delete](#)

feed_source...
Fast Food

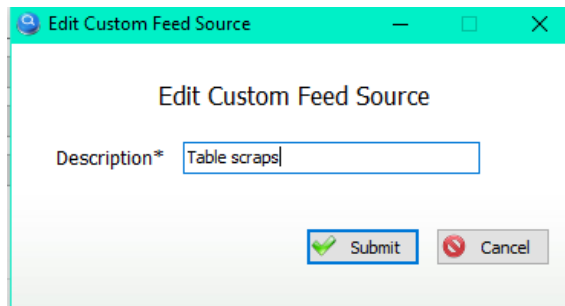
[View Reports](#) [Submit](#) [Cancel](#)

The fields Name, World Region, Country and Local Currency are required. You may enter more specific geographic information that will pre-populate in any focus groups you create for this site, though you can still edit the major region, minor region, sub-region, village/community and community type on a focus-group-by-focus-group basis.

If you do not have specific data about the nutritional value of local collected fodder and pasture, we recommend leaving the default values.

You also have the option of adding custom feed sources in addition to the standard options of cereal crop residues, leguminous crop residues, grazing, green forage and “other”. However, **for the sake of keeping data as organized and standardized as possible, we recommend using the “other” category for less significant sources of feed and only adding additional feed sources if the standard categories do not cover major local sources of animal nutrition.**

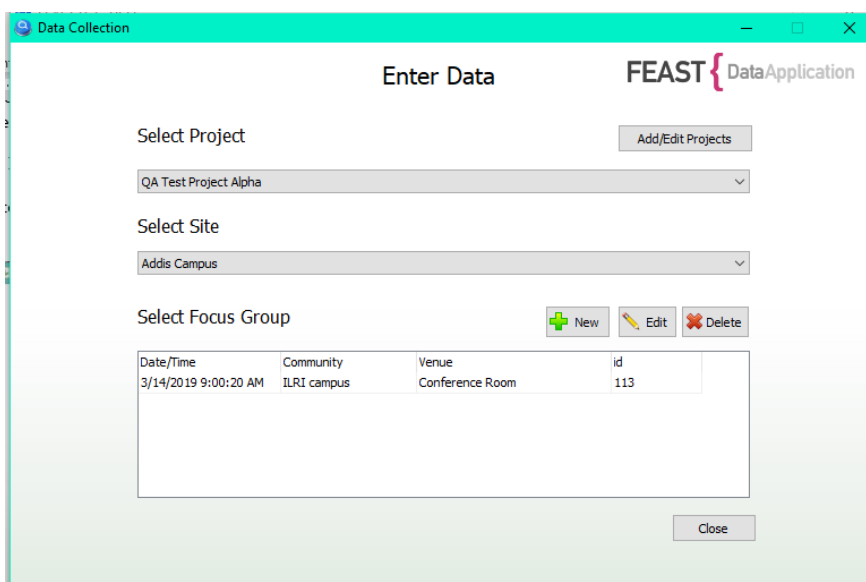
The feed source grid uses the standard New/Edit/Delete buttons. Creating a new source or editing an existing source will bring up the custom feed source form.



You may enter a name for the feed source, which may then be included in allocations of feed sources in other forms. Custom feed sources are unique to the site, so if you want to include the same custom feed source for another site you will have to re-enter it.

Creating Focus Groups

At the bottom of the 'enter data' form there is a grid for adding, updating or deleting focus groups.



Date/Time	Community	Venue	id
3/14/2019 9:00:20 AM	ILRI campus	Conference Room	113

Again, you must create and select a project and a site before adding focus groups.

Once you click to add a new focus group, you will have to choose the type of focus group.



A female focus group will have only female respondents, a male focus group will have only male respondents. A non-gendered focus group will consist of both male and female respondents.

Gendered (male or female) focus groups should use the gendered focus group and interview guides, which include additional gender specific questions.

Upon adding or editing a focus group the following form will appear:

Edit Gendered Focus Group Data (Male) FEAST {DataApplication}

Focus Group: 3/14/2019 ILRI campus Conference Room

General | Farm / Household Size | Seasons / Rainfall | Feed / Context Issues | Agro-Economic Data | Labour | Interview Data

General Focus Group Information

Venue* Conference Room Meeting Date* ☒ 3/14/2019

Country Ethiopia Start Time* ☒ 09:00 AM

Major Region (e.g., State/Province) Don't know End Time ☒ 11:30 AM

Minor Region (e.g., County) the Neighborhood

Sub-Region AU headquarters

Community* ILRI campus

Community Type* Village

Number of Male Participants* 10

Other Attendees

Partner Organization(s)

The Girl Scouts

Enter GPS latitude and longitude in format +/- ddd, mm, ss

GPS Latitude 90 deg 40 m 20 s

GPS Longitude -120 deg 20 m 30 s

[Define New Type](#)

[View Reports](#) [Make Focus Group Non-gendered](#) [Submit](#) [Cancel](#)

The form has the following tabs, which generally correspond to sections in the Focus Group Discussion Guide:

- **General**
- **Farm / Household Size**
- **Seasons/Rainfall**
- **Feed/Context Issues**
- **Agro-Economic Data**
- **Labour**
- **Interview Data**

You must enter **all** required fields before submitting the focus group. We will now go through the tabs and the required fields in each.

General Tab

The general tab contains information about the time and place of the focus group discussion and participants.

The screenshot shows the 'Edit Gendered Focus Group Data (Male)' form in the FEAST Data Application. The 'General' tab is selected, showing fields for venue, date, time, location, and participants. The form is titled 'Edit Gendered Focus Group Data (Male)' and 'FEAST DataApplication'. The 'Focus Group' is identified as '3/14/2019 ILRI campus Conference Room'. The 'General Focus Group Information' section includes fields for Venue* (Conference Room), Country (Ethiopia), Major Region (e.g., State/Province) (Don't know), Minor Region (e.g., County) (the Neighborhood), Sub-Region (AU headquarters), Community* (ILRI campus), and Community Type* (Village). There are also checkboxes for Meeting Date* (3/14/2019), Start Time* (09:00 AM), and End Time (11:30 AM). The Number of Male Participants* is 10. Other Attendees include Tito Puente. The Partner Organization(s) is The Girl Scouts. GPS data is entered as Latitude 90 deg 40 m 20 s and Longitude -120 deg 20 m 30 s. At the bottom, there are buttons for View Reports, Make Focus Group Non-gendered, Submit, and Cancel.

Edit Gendered Focus Group Data (Male) FEAST {DataApplication}

Focus Group: 3/14/2019 ILRI campus Conference Room

General | Farm / Household Size | Seasons / Rainfall | Feed / Context Issues | Agro-Economic Data | Labour | Interview Data

General Focus Group Information

Venue* Meeting Date* ☒ 3/14/2019

Country Start Time* ☒ 09:00 AM

Major Region (e.g., State/Province) End Time ☒ 11:30 AM

Minor Region (e.g., County)

Sub-Region Number of Male Participants*

Community*

Community Type* Other Attendees

[Define New Type](#)

Enter GPS latitude and longitude in format +/- ddd, mm, ss

GPS Latitude deg m s

GPS Longitude deg m s

Partner Organization(s)

[View Reports](#) [Make Focus Group Non-gendered](#) [Submit](#) [Cancel](#)

Required fields are venue, meeting date, start time, numbers of male and female participants, community and community type.

You may optionally add GPS data, an end time, other attendees and any partner organizations involved.

Farm/Household Size Tab

This tab contains basic demographic information about farmers in the community.

The screenshot shows the 'Edit Gendered Focus Group Data (Male)' window in the FEAST Data Application. The 'Focus Group' is '3/14/2019 ILRI campus Conference Room'. The 'Farm / Household Size' tab is active, showing 'Household Information' and 'Range of Farm Sizes*'. The 'Household Information' section includes fields for 'Total households in the Village' (150), 'Average members per household*' (6), and '% of HH members migrating outside the area' (15 %). The 'Range of Farm Sizes*' section includes a table for farm sizes and a dropdown for units (hectare). The table shows the percentage breakdown of households managed by gender (Female and Male) for each farm size category. The 'Units' dropdown is set to 'hectare' and the total percentage is 100%.

	Range of Farm Sizes*	% Households*	% Households Managed by Gender*	
			Female	Male
Landless	n/a	10 %	5 %	95 %
Small Farm	Less than 3	20 %	15 %	85 %
Medium Farm	3 to 5	40 %	15 %	85 %
Large Farm	5 or Larger	30 %	0 %	100 %
Units: hectare		100 (total)		

Buttons at the bottom: View Reports, Make Focus Group Non-gendered, Submit, Cancel.

Required fields include total households in the area, average members per household, the ranges for small, medium and large farms (and a selector for units of area) then the percentage breakdown of farmers who fall into each category, and the percentage breakdown of households managed by gender.

There is an optional field for the percentage of household members migrating outside the area.

Seasons/Rainfall Tab

The seasons and rainfall tab allows you to define seasons, assign seasons to months and add ratings for rainfall for each month.

Month	Season	Rainfall
1 January	Ski Se...	3
2 February	Ski Se...	3
3 March		4
4 April		4
5 May		4
6 June		5
7 July		3
8 August		1
9 September		0
10 October		2
11 November		3
12 December	Ski Se...	1

Note that defining seasons is entirely optional. Season definitions are stored at the focus group level, so if you want to have the same season available for other focus groups you will need to enter it again.

Ratings for monthly rainfall are required. Double-click any row on the rainfall grid to open the monthly statistics form:

Month: March < Prev Next >

Season: [drop-down]

Rainfall (0 to 5)*: 4 [drop-down]

Submit Cancel

Here you may choose one of your defined seasons from the drop-down (optional) and assign a rainfall rating on a scale of 0 to 5, per your notes from the focus group discussion guide (required).

The previous and next buttons will allow you to cycle through the months, rather than have to exit and select a different month.

Feed / Context Issues Tab

On this tab, you need to select a general description of the local livestock system and core commodity from the drop-downs, then enter the ratings given by farmers for each of the issues in the grid.

Edit Gendered Focus Group Data (Male) FEAST {DataApplication}

Focus Group: 3/14/2019 ILRI campus Conference Room

General Farm / Household Size Seasons / Rainfall **Feed / Context Issues** Agro-Economic Data Labour Interview Data

Feed / Context Issues

What Best Describes the Agricultural System? Agro-pastoral / extensive mixed systems

Core Commodity of Interest to Community Dairy cattle / buffalo

Core Context Attribute / Feed Issue Ratings On a Scale of 0 to 4 [Edit](#)

Attribute	Score	Reference
Availability of cash / credit (4 = best)	3	Question 1.8 FEAST discussion
Availability of input delivery (4 = best)	2	Question 1.10 FEAST discussion
Availability of knowledge / skill (4 = best)	2	Based on facilitator's best judgment
Availability of labour (4 = best)	1	Question 1.6 FEAST discussion
Availability of land for fodder cultivation (4 = best)	3	Question 1.9 FEAST discussion
Availability of water in growing season (4 = best)	4	Question 1.5.2 FEAST discussion
Is energy / protein shortage a problem? (0 = no, 4 = serious problem)	2	Based on facilitator's best judgment
Is quantity a problem? (0 = no, 4 = serious problem)	3	Based on facilitator's best judgment
Is scarcity of feed in the dry/cool season a problem? (0 = no, 4 = serious problem)	3	Based on facilitator's best judgment

[View Reports](#) [Make Focus Group Non-gendered](#) [Submit](#) [Cancel](#)

Double-clicking an issue in the grid brings up the following form:

Edit Core Feed Issue Score [< Prev](#) [Next >](#)

Issue Availability of knowledge / skill (4 = best)

Reference Based on facilitator's best judgment [View Discussion Guide](#)

Score* 2 On a Scale of 0 to 4

[Submit](#) [Cancel](#)

The issue text is predetermined. You must assign a score of 0 to 4 from the drop-down for each issue on the list. Previous and next buttons allow you to cycle through the list without exiting.

Agro-Economic Data

This tab contains additional, optional information related to local agriculture and livestock production. There are no required fields, though you should still enter the information from the Focus Group Discussion Guide to keep everything together, especially since some of these statistics will factor into reports included in future versions of the FEAST Data Application.

The screenshot shows the 'Edit Gendered Focus Group Data (Male)' window in the FEAST Data Application. The 'Focus Group' is '3/14/2019 ILRI campus Conference Room'. The 'Agro-Economic Data' tab is selected, showing various input fields for agricultural and economic data. The currency is set to 'Ethiopian Birr' with an exchange rate of 0.049. Fields include land lease price, cultivation percentages, credit usage, feed processing, land use for crops, gender balance in processing, and distance/cost to market. At the bottom are buttons for 'View Reports', 'Make Focus Group Non-gendered', 'Submit', and 'Cancel'.

Agro-Economic Data			
All prices in Ethiopian Birr (=0.049 Set Exchange Rate)			
Price to lease 1 ha of land	1000		
% of land under cultivation	80 %		
% of land left fallow	20 %		
% of Cultivated Land Devoted to			
Cash Crops	Subsistence	Fodder	
30	30	40	
% of Farmers Who Use Bull vs. A.I.			
A.I. Service	Bull Service		
60	40		
Informal credit as % of all credit	80 %		
Formal credit as % of all credit	20 %		
Farmers engaged in feed processing	50 %		
Gender Balance of Farmers Engaged in Processing			
Female	30 %	Male	70 %
Average distance to market (km)	5		
Average cost of travel to market	200.00		

View Reports Make Focus Group Non-gendered

Labour Tab

On this tab, you should enter overall maximum and minimum rates for daily labour, then may optionally define specific labour activities and enter the average daily rates paid to male and female workers, respectively.

Edit Focus Group Data

Edit Gendered Focus Group Data (Male) FEAST {DataApplication}

Focus Group: 3/14/2019 ILRI campus Conference Room

General | Farm / Household Size | Seasons / Rainfall | Feed / Context Issues | Agro-Economic Data | **Labour** | Interview Data

Cost of Labour

Maximum Cost of Daily Labour (local currency/day)* 200.00 in Ethiopian Birr
Minimum Cost of Daily Labour (local currency/day)* 50.00 (=0.049 [Set Exchange Rate](#))

Labour Rates by Activity and Gender [New](#) [Edit](#) [Delete](#)

Activity	Daily Rate Female	Daily Rate Male
Shoveling Snow	80.00	50.00

[View Reports](#) [Make Focus Group Non-gendered](#) [Submit](#) [Cancel](#)

Adding or editing an activity will open the following form:

Edit Labour Cost by Activity

Activity* Shoveling Snow

Average Daily Cost of Labour (Female)* 80.00

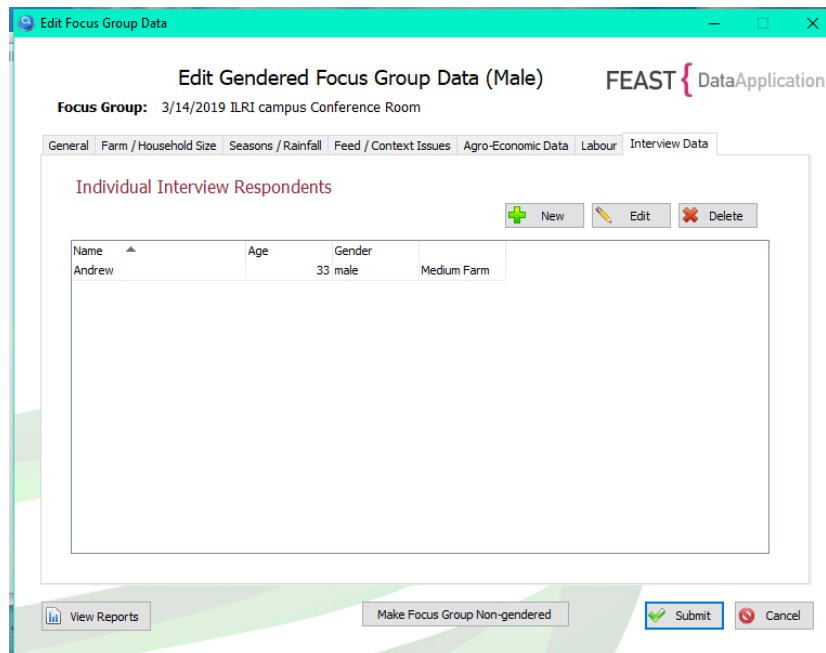
Average Daily Cost of Labour (Male)* 50.00

in Ethiopian Birr
(=0.049 [Set Exchange Rate](#))

[Submit](#) [Cancel](#)

Interview Data

On this tab you may use the grid to add, edit or delete individual interview respondents.



FEAST { DataApplication

Focus Group: 3/14/2019 ILRI campus Conference Room

General Farm / Household Size Seasons / Rainfall Feed / Context Issues Agro-Economic Data Labour Interview Data

Individual Interview Respondents

New Edit Delete

Name	Age	Gender	Medium Farm
Andrew	33	male	Medium Farm

View Reports Make Focus Group Non-gendered Submit Cancel

The form for entering interview data is quite lengthy and completing it will be the subject of the next section of this manual.

If you delete an interview respondent from the grid you will permanently lose all associated data for that interview respondent. Be extremely careful when deleting.

Entering Individual Interview Respondent Data

The form to edit individual interview respondent data is another multi-tab form.

Edit Interview Respondent Data FEAST {DataApplication}

Respondent: Andrew

General | Property / Income | Livestock Holding | Crops | Fodder and Diet | Livestock Sales | Milk | Feed Availability | Gender Roles

General Interview Respondent Information

Interview Date* ☒ 3/14/2019

Respondent Name*

Age*

Gender*

☒ Respondent is Head of Household

☐ Household is Female-Managed

Country

Major Region (e.g., State/Province)

Minor Region (e.g., County)

Sub-Region

Community

Community Type [Define New Type](#)

Head of Household Information

Head of HH Name*

Head of HH Age*

Head of HH Gender*

Cooperative / Organization Affiliations

Coop	# Males	# Females
------	---------	-----------

The tabs include:

- **General**
- **Property / Income**
- **Livestock Holding**
- **Crops**
- **Fodder and Diet**
- **Livestock Sales**
- **Milk**
- **Feed Availability**
- **Gender Roles**

You must enter all required fields before submitting the interview respondent. We will now go through the tabs and the required fields in each.

General

This tab contains general personal information about the respondent and their household.

Edit Interview Respondent Data FEAST DataApplication

Respondent: Andrew

General Property / Income Livestock Holding Crops Fodder and Diet Livestock Sales Milk Feed Availability Gender Roles

General Interview Respondent Information

Interview Date* ☒ 3/14/2019

Respondent Name*

Age*

Gender*

☒ Respondent is Head of Household
☐ Household is Female-Managed

Country

Major Region (e.g., State/Province)

Minor Region (e.g., County)

Sub-Region

Community

Community Type [Define New Type](#)

Head of Household Information

Head of HH Name*

Head of HH Age*

Head of HH Gender*

Cooperative / Organization Affiliations

Coop	# Males	# Females
Field Hockey ...	2	1

Required fields include the interview date (which will default to the date of the focus group discussion), the respondent's name, age and gender. If the respondent is the head of their household and/or the household is female-managed, check the box(es) below their information. If not, you will need to enter the same information for the head of household.

You may also enter information on their place of residence. By default, it will be populated with the same values as the focus group discussion.

There is an optional field for any cooperative/organizations the respondent or their household members might belong to.

Property / Income

The property / income tab includes fields for how much property the respondent owns, the amount of land under cultivation, the landholding category they fall into (small, medium, large or landless) as defined by the focus group participants, the head of household's occupation, and the land ownership broken down by gender. The land ownership is allotted by units and should equal the amount of total land owned.

The screenshot shows the 'Edit Interview Respondent Data' window for a respondent named Andrew. The 'Property / Income' tab is selected. The form includes fields for 'Total Land Owned*' (6), 'Land Under Cultivation*' (3), 'Units*' (hectare), 'Landholding Category*' (Medium Farm), and 'Head of HH Occupation*' (Scuba Instructor). There is a 'Land Ownership' section with 'Jointly-owned land*' (2), 'Individually owned by the man*' (3), and 'Individually owned by the woman*' (1). A 'Sources of Income (Top 4)' table is also present, with columns for Category, Activity, and Pct. The table contains three entries: Livestock (Fattening Animals - Ca... 20), Cropping (Cash Crops 30), and Business (Off-Farm Business 30). The window has a 'View Reports' button and 'Submit' and 'Cancel' buttons at the bottom.

Edit Interview Respondent Data FEAST {DataApplication}

Respondent: Andrew

General Property / Income Livestock Holding Crops Fodder and Diet Livestock Sales Milk Feed Availability Gender Roles

Household Wealth and Sources of Income

Total Land Owned* 6

Land Under Cultivation* 3

Units* hectare Define New Unit

Landholding Category* Medium Farm

Head of HH Occupation* Scuba Instructor

Land Ownership

Jointly-owned land* 2

Individually owned by the man* 3

Individually owned by the woman* 1

Enter data for both tabs below

Household Income %* Women's Income %*

Sources of Income (Top 4)

Percentages must add up to 100*

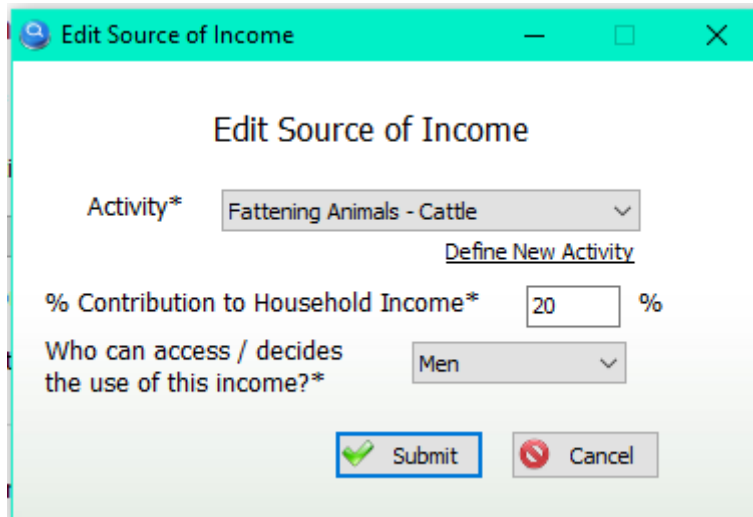
New Edit Delete

Category	Activity	Pct.
Livestock	Fattening Animals - Ca...	20
Cropping	Cash Crops	30
Business	Off-Farm Business	30

View Reports Submit Cancel

There is also a grid form with two tabs to record the top four sources of income. The first tab is for overall household income. The second tab is for women's income specifically. For each tab, the percentages for the four items must add up to 100.

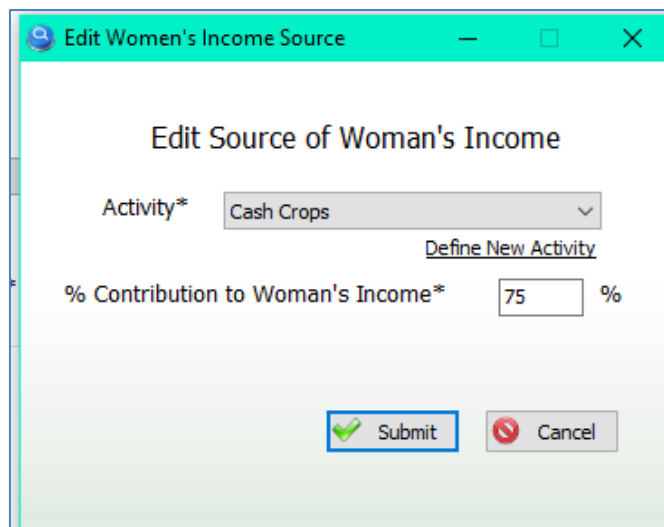
When you add or edit a household income source, the following form appears:



The screenshot shows a window titled "Edit Source of Income". Inside, the title "Edit Source of Income" is centered. Below it, there is a label "Activity*" followed by a dropdown menu showing "Fattening Animals - Cattle". To the right of the dropdown is a link that says "Define New Activity". Below this, there is a label "% Contribution to Household Income*" followed by a text input field containing "20" and a "%" symbol. Below that, there is a label "Who can access / decides the use of this income?*" followed by a dropdown menu showing "Men". At the bottom, there are two buttons: "Submit" with a green checkmark icon and "Cancel" with a red X icon.

You will select an activity then enter the percentage of the respondent's income derived from that activity. You will also need to choose who has access and can use the income. Your options will be joint, men, women, or not applicable.

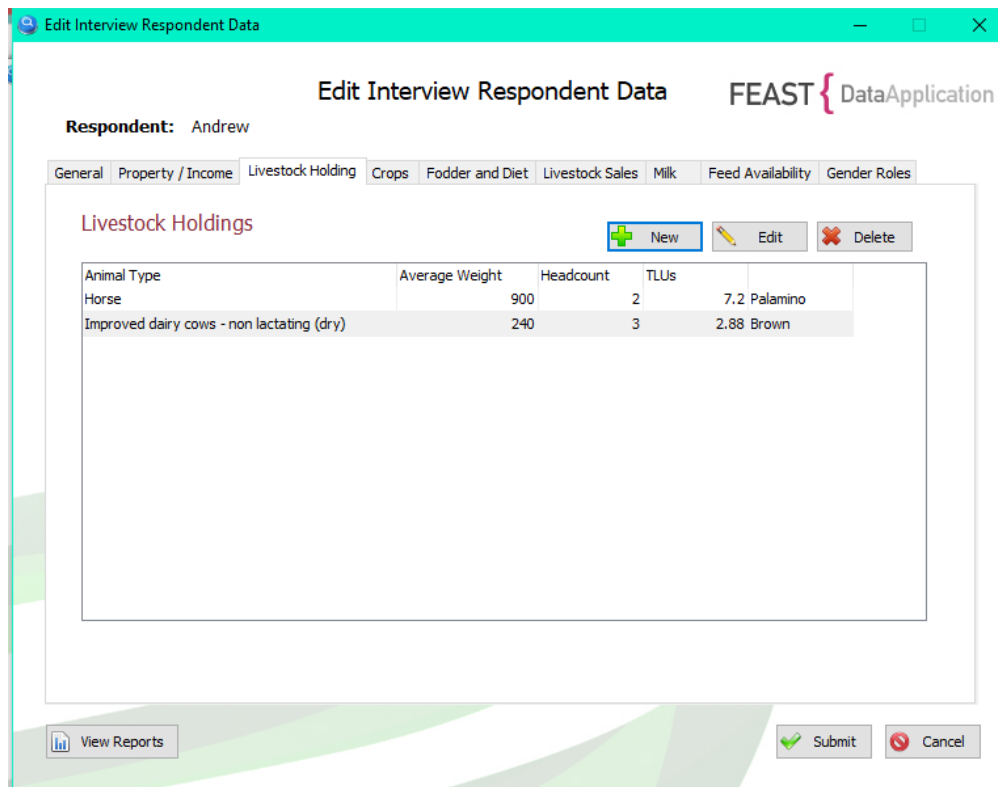
When entering women's income, you will only select the activity and the percentage of contribution to the woman's income as seen below.



The screenshot shows a window titled "Edit Women's Income Source". Inside, the title "Edit Source of Woman's Income" is centered. Below it, there is a label "Activity*" followed by a dropdown menu showing "Cash Crops". To the right of the dropdown is a link that says "Define New Activity". Below this, there is a label "% Contribution to Woman's Income*" followed by a text input field containing "75" and a "%" symbol. At the bottom, there are two buttons: "Submit" with a green checkmark icon and "Cancel" with a red X icon.

Livestock Holding

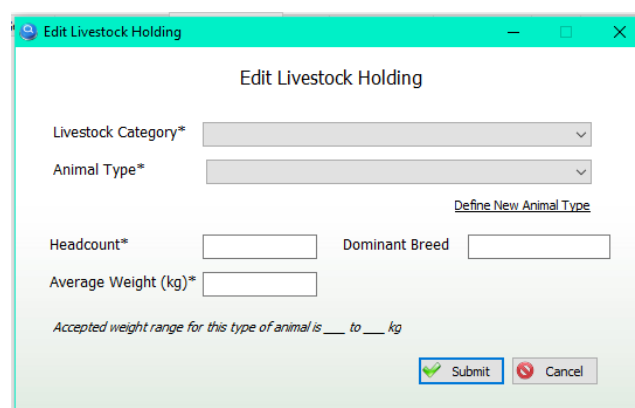
The livestock holding form allows you to add records for the different types of animals owned by the respondent.



The screenshot shows the 'Edit Interview Respondent Data' window for a respondent named Andrew. The 'Livestock Holding' tab is selected. It features a table with columns: Animal Type, Average Weight, Headcount, TLUs, and a description. Two records are listed: 'Horse' with an average weight of 900, headcount of 2, and 7.2 TLUs (Palamino), and 'Improved dairy cows - non lactating (dry)' with an average weight of 240, headcount of 3, and 2.88 TLUs (Brown). Buttons for 'New', 'Edit', and 'Delete' are above the table. At the bottom, there are 'View Reports', 'Submit', and 'Cancel' buttons.

Animal Type	Average Weight	Headcount	TLUs	
Horse	900	2	7.2	Palamino
Improved dairy cows - non lactating (dry)	240	3	2.88	Brown

When you add or edit a record via the grid, the following form will appear:



The screenshot shows the 'Edit Livestock Holding' form. It includes two drop-down menus for 'Livestock Category*' and 'Animal Type*'. A link 'Define New Animal Type' is next to the 'Animal Type*' menu. Below these are input fields for 'Headcount*', 'Average Weight (kg)*', and 'Dominant Breed'. A text line indicates the accepted weight range: 'Accepted weight range for this type of animal is ___ to ___ kg'. At the bottom are 'Submit' and 'Cancel' buttons.

You may select a category of livestock via the drop-down at the top then the specific type via the second drop-down. Other required fields include the headcount and average weight. You may optionally add the dominant breed.

Crops

The crops tab lists all crops grown for purposes other than feed.

Edit Interview Respondent Data FEAST {DataApplication}

Respondent: Andrew

General | Property / Income | Livestock Holding | **Crops** | Fodder and Diet | Livestock Sales | Milk | Feed Availability | Gender Roles

Crops Grown (Excluding crops grown specifically for fodder)

[New](#) [Edit](#) [Delete](#)

Crop Type	Area	Units (Area)	Yield	Units (Yield)	% Fed	% Burned
Broad beans (Vicia faba)	1 hectare	10000 kilogram			50	50
Pumpkin (Cucurbita maxima)	0.5 hectare	4000 kilogram			50	

[View Reports](#) [Submit](#) [Cancel](#)

Adding or editing a record will bring up the following form:

Edit Crop Data

Crop Type* [Define New Crop Type](#)

Cultivated Area* Units* [Define New Unit](#)

Annual Yield* Units* [Define New Unit](#)

Uses of Residue*

Fed to Animals	<input type="text" value="50"/> %
Burned	<input type="text"/> %
Mulched	<input type="text" value="25"/> %
Sold	<input type="text" value="25"/> %
Other	<input type="text"/> %
Total	<input type="text" value="100"/>

[Submit](#) [Cancel](#)

Select a crop type from the drop-down, enter the hectares devoted to cultivation and yield, then the uses of residue. Percentages for uses of residue must add up to 100.

Fodder and Diet

The fodder and diet tab contains required fields for percentages of the animals' diet by source plus grids for cultivated fodder crops and feeds purchased by the respondent.

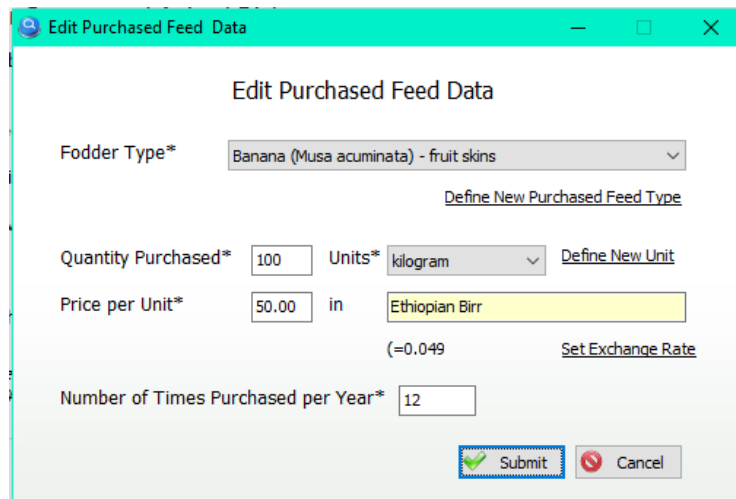
The screenshot shows the 'Edit Interview Respondent Data' window for a respondent named Andrew. The 'Fodder and Diet' tab is selected. On the left, under 'Fodder Sources and Animal Diet', there is a section for 'Contributions to Animals' Diet' with five input fields: Collected Fodder* (10%), Grazing* (10%), Cultivated Fodder* (20%), Crop Residue* (20%), and Purchased Feed* (20%). A note states: 'These values do not necessarily need to add up to 100%'. On the right, there are two tables. The 'Fodder Crops' table has columns for Fodder Crop, Cultivated Area, and Units. It lists 'Bermuda grass (Cynodon ...)' with 1 hectare and 'Italian Ryegrass (Lolium ...)' with 3 hectares. The 'Feed Purchases' table has columns for Feed Type, Quantity, Units (Mass), and Price. It lists 'Banana (Musa acum...)' with 100 kilogram at 50.00 and 'Pineapple (Ananas ...)' with 50 kilogram at 10.00. At the bottom, there are buttons for 'View Reports', 'Submit', and 'Cancel'.

Adding or editing a record on the fodder crops grid will open this form:

The screenshot shows the 'Edit Fodder Crop Data' window. It has a title bar 'Edit Fodder Crop Data'. The main content area has two required fields: 'Fodder Crop Type*' with a dropdown menu showing 'Bermuda grass (Cynodon dactylon)' and a link 'Define New Fodder Crop Type'; and 'Cultivated Area*' with an input field containing '1' and 'Units*' with a dropdown menu showing 'hectare' and a link 'Define New Unit'. At the bottom, there are 'Submit' and 'Cancel' buttons.

There are three fields available for type of fodder crop, the area cultivated and the unit of area. All fields are required.

Adding or editing a purchased feed source opens this form:



Edit Purchased Feed Data

Fodder Type* Banana (Musa acuminata) - fruit skins [Define New Purchased Feed Type](#)

Quantity Purchased* Units* kilogram [Define New Unit](#)

Price per Unit* in Ethiopian Birr [Set Exchange Rate](#)
(=0.049)

Number of Times Purchased per Year*

The required fields include type of fodder, quantity purchased, unit of mass, price per unit (currency defaults to that selected for the site) and the number of purchases made per year.

Livestock Sales

The livestock sales tab has grids for entering the number of animals sold or slaughtered over the past 3 years and the typical market prices by month.

Edit Interview Respondent Data FEAST {DataApplication

Respondent: Andrew

General Property / Income Livestock Holding Crops Fodder and Diet **Livestock Sales** Milk Feed Availability Gender Roles

Livestock Sales and Market Prices

Animals Sold (Past 3 Years) [Edit](#)

Species	Gender	Number Sold	Approx. Weight
Cattle	female	2	100
Cattle	male		
Sheep	female		
Sheep	male		
Goat	female	3	70
Goat	male		

Market Price for Livestock [Edit](#)

Month	Cattle	Sheep	Goat	
January	2000.00	500.00	400.00	1
February	2100.00	500.00	300.00	2
March	2200.00	500.00	450.00	3
April	2300.00	600.00	350.00	4
May	2400.00	450.00	450.00	5
June	2500.00	450.00	100.00	6
July	2800.00	200.00	300.00	7
August	3100.00	400.00	250.00	8
September	3300.00	500.00	480.00	9
October	3500.00	600.00	550.00	10
November	3700.00	440.00	320.00	11
December	4000.00	200.00	200.00	12

[View Reports](#) [Submit](#) [Cancel](#)

Editing the records for sales opens this form:

Edit Livestock Sales Data

Species [< Prev](#) [Next >](#)

Gender

Number Sold/Slaughtered Over Past 3 Years

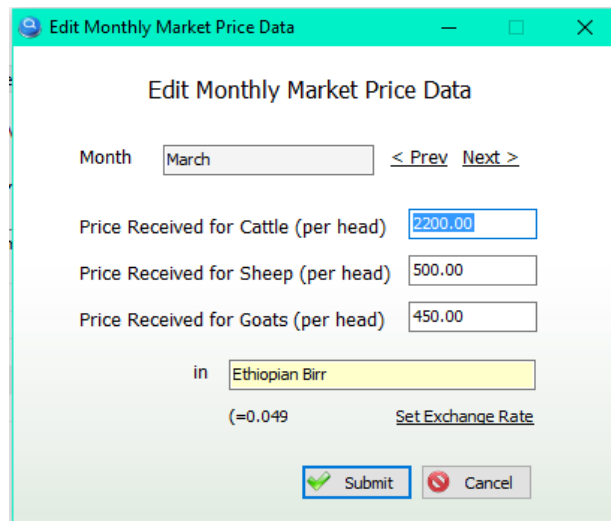
Approximate Average Weight (kg)

[Submit](#) [Cancel](#)

For each species / gender, enter the headcount sold or slaughtered and the average weight. You may use the previous and next arrows to cycle through the species / gender categories.

Not all categories require input. If the farmer has not sold or slaughtered any animals of a given type, it is fine to leave it blank.

Editing any of the monthly livestock price records opens this form:



The screenshot shows a web application window titled "Edit Monthly Market Price Data". The form contains the following elements:

- Month:** A dropdown menu currently showing "March", with "< Prev" and "Next >" links.
- Price Received for Cattle (per head):** A text input field containing "2200.00".
- Price Received for Sheep (per head):** A text input field containing "500.00".
- Price Received for Goats (per head):** A text input field containing "450.00".
- in:** A dropdown menu showing "Ethiopian Birr".
- (=0.049):** A label indicating the exchange rate.
- Set Exchange Rate:** A link to update the exchange rate.
- Submit:** A button with a green checkmark icon.
- Cancel:** A button with a red X icon.

For each month you may enter average prices for cattle, sheep and goats in local currency. Again, enter as much data as possible, though it is not necessary to enter values for every category for every month.

Milk

The milk tab has a grid for entry of average monthly milk production and prices.

Edit Interview Respondent Data FEAST { DataApplication

Respondent: Andrew

General / Property / Income / Livestock Holding / Crops / Fodder and Diet / Livestock Sales / **Milk** / Feed Availability / Gender Roles

Milk Yield and Sales [Edit](#)

Month	Avg Yield (L)	Retained for HH	Avg Price	
January	8	4	80.00	1
February	7	5	90.00	2
March	8	4	80.00	3
April	7	5	90.00	4
May	9	3	60.00	5
June	9	3	60.00	6
July	8	4	80.00	7
August	8	4	80.00	8
September	7	0.5	90.00	9
October	8	2.5	100.00	10
November	7	3.5	80.00	11
December	8	4	50.00	12

[View Reports](#) [Submit](#) [Cancel](#)

Ideally you should enter complete data for all months, though the program will accept partially complete data.

Adding or editing a monthly record will open the following form:

Edit Monthly Milk Data

Month: [< Prev](#) [Next >](#)

Average Milk Yield (Litres/Day/Household):

Average Retained for Household Use (L/day):

Average Price Received per Litre:

in: (=0.049) [Set Exchange Rate](#)

[Submit](#) [Cancel](#)

The prev / next buttons allow you to cycle through the months and enter data.

Feed Availability

The feed availability tab allows you to enter overall feed availability by month, then breakdown by feed source.

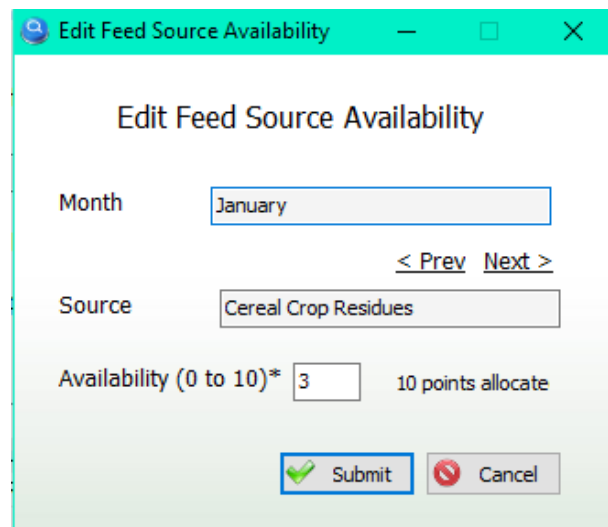
Month	Overall Feed ...	Order
January	3	1
February	2	2
March	3	3
April	7	4
May	8	5
June	8	6
July	4	7
August	5	8
September	8	9
October	8	10
November	7	11
December	6	12

Editing a monthly record opens the following form:

Source	Rating
Cereal Crop Residues	3
Leguminous Crop Residues	4
Grazing	3
Concentrates	
Green Forage (e.g., weeds, ...)	
Other (Unspecified)	
Fast Food	

Total (must equal 10) 10

On the form you may use prev/next to page through months, enter an overall field availability value using the drop-down then edit records for individual feed sources using the grid. Editing a feed source record will open this form:



The screenshot shows a web application window titled "Edit Feed Source Availability". The form contains the following elements:

- Month:** A dropdown menu currently showing "January".
- Navigation:** Two buttons labeled "< Prev" and "Next >" are positioned to the right of the Month dropdown.
- Source:** A dropdown menu currently showing "Cereal Crop Residues".
- Availability (0 to 10)*:** A text input field containing the number "3". To the right of the input field, the text "10 points allocate" is displayed.
- Buttons:** At the bottom, there are two buttons: "Submit" (with a green checkmark icon) and "Cancel" (with a red X icon).

You may page through the sources using the prev / next buttons and enter a value of 0 to 10 for each source. For each month, the ratings for all sources must total 10.

Gender Roles

The gender roles tab has grids allowing you to select the group responsible for making certain decisions.

Edit Interview Respondent Data FEAST {DataApplication}

Respondent: Andrew

General Property / Income Livestock Holding Crops Fodder and Diet Livestock Sales Milk Feed Availability **Gender Roles**

Decision Making Edit

Type	Decision	Group
Crops Grown	Who decides on how to...	Joint
Crops Grown	Who decides on what c...	Women
Cultivated F...	Who decides on what f...	Men
Purchased F...	Who decides or purcha...	Men
Sales of Live...	Large ruminant livestoc...	Men
Sales of Live...	Milk	N/A
Sales of Live...	Pins	Women

Division of Labor Edit

Type	Group
Cleaning of feeding and wateri...	Children and y...
Collection of off-farm forages	Men
Feeding	Women
Harvesting forages/crop residues	Women
Mixing feed ingredients	Women
Planting forages	Men
Preparing land for planting fora...	Men
Processing (milling/chopping) fe...	Men

View Reports Submit Cancel

You must enter complete data for all decision making and the division of labor.

Editing a decision-making issue will open the following form:

Edit Decision-Making Issue

< Prev Next >

Issue Type: Crops Grown

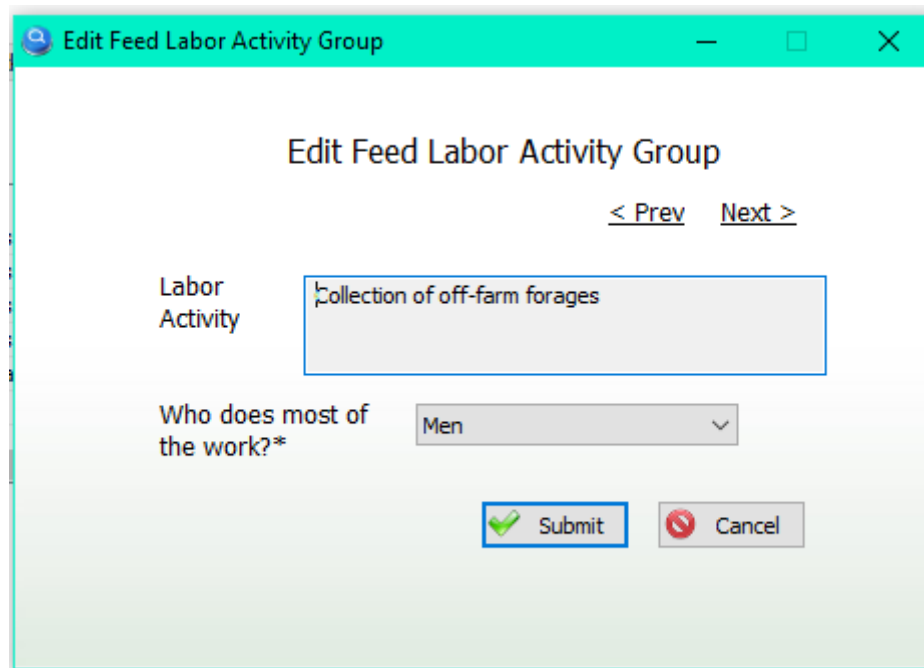
Issue To Be Decided: Who decides on how to use crop residue?

Who Decides?*: Joint

Submit Cancel

The prev / next buttons allow you to cycle through the decision making issues to enter data.

Similarly, editing a feed labor activity will bring up the following form:



The screenshot shows a web application window titled "Edit Feed Labor Activity Group". The window has a teal header bar with the title and standard window controls (minimize, maximize, close). The main content area is white and contains the following elements:

- A title "Edit Feed Labor Activity Group" centered at the top.
- Navigation links "< Prev" and "Next >" on the right side.
- A label "Labor Activity" on the left, followed by a text input field containing "Collection of off-farm forages".
- A label "Who does most of the work?*" on the left, followed by a dropdown menu showing "Men".
- Two buttons at the bottom: "Submit" (with a green checkmark icon) and "Cancel" (with a red X icon).

Again, the prev / next buttons allow you to cycle through the labor activities to enter data.

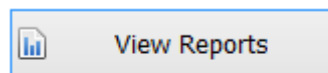
This completes the review of the various input forms.

Viewing FEAST Reports

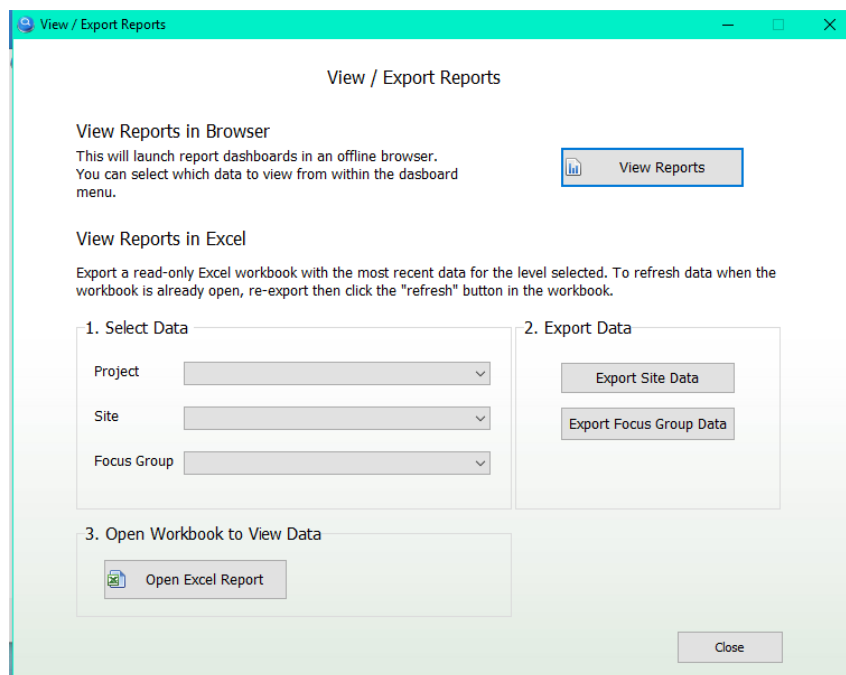
Once you have entered data for one or more focus groups, you will likely want to analyze the data and generate charts for inclusion in your report. The FEAST Data Application has a wide variety of available reports including:

- Animal Diet and Nutrition (Dry Matter, Metabolisable Energy and Crude Protein by source)
- Monthly Rainfall and Feed Availability
- Daily milk production vs. price per litre
- Dominant livestock species
- Monthly market price per animal type
- Dominant crops, fodder crops and purchased feed types
- Sources of income
- Gender pay equality
- Households by landholding category

The FEAST Data Application offers a variety of options for accomplishing this. The reports menu may be accessed via the home menu or any of the “View Reports” buttons included throughout the interface.



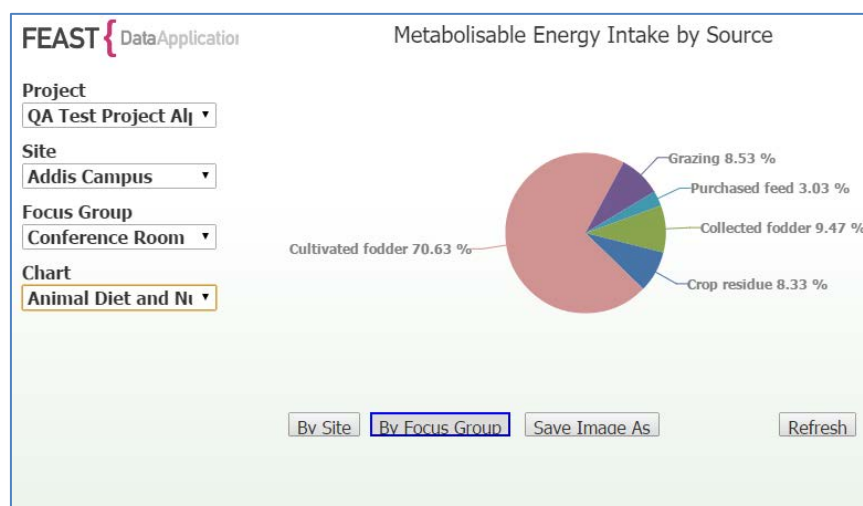
Clicking these buttons will open the report menu.



There are two main options for viewing reports: the browser and in a Microsoft Excel spreadsheet.

Report Browser

The report browser will open in a separate window. On the left hand side you will find drop-down menus allowing you to select a project, site and focus group, then the type of graph you wish to view.



Use the buttons at the bottom of the window to select whether to view data for the entire site or just the selected focus group. You may also save an image to your hard drive in .png format for insertion into a report.

Excel Export

To use these features you must have Microsoft Excel 2007 or later installed on your computer.

Viewing reports in Excel is a multi-step process.

1. Export data from FEAST Data App
2. Open Excel Report package
3. Enable macros / content
4. Refresh data as necessary

Let's start with the "View Reports in Excel" section of the reports menu.

View Reports in Excel

Export a read-only Excel workbook with the most recent data for the level selected. To refresh data when the workbook is already open, re-export then click the "refresh" button in the workbook.

1. Select Data	2. Export Data
Project <input type="text"/>	<input type="button" value="Export Site Data"/>
Site <input type="text"/>	<input type="button" value="Export Focus Group Data"/>
Focus Group <input type="text"/>	

3. Open Workbook to View Data

[View Excel workbook in folder.](#)

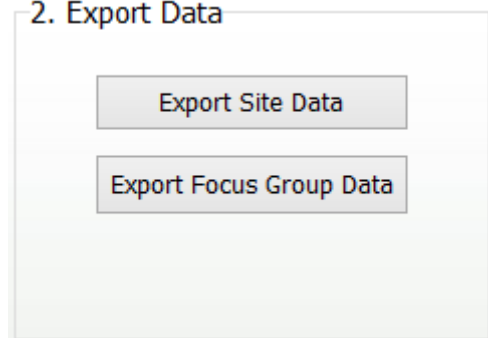
The first step is to choose the project, site and focus group for which you wish to view data. If you plan to do a report at the site level, it is not necessary to select a focus group.

1. Select Data

Project	<input type="text" value="QA Test Project Alpha"/>
Site	<input type="text" value="Addis Campus"/>
Focus Group	<input type="text" value="Conference Room"/>

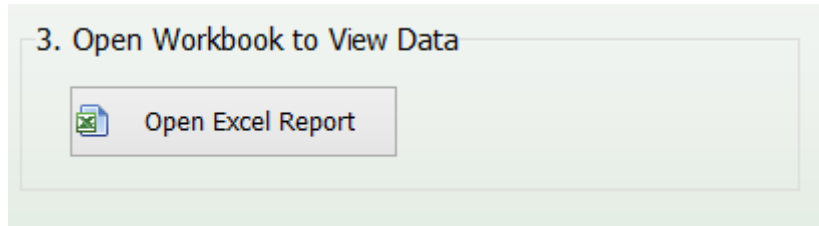
The next step is to export data either for the site or the focus group using the buttons in the second group.

2. Export Data



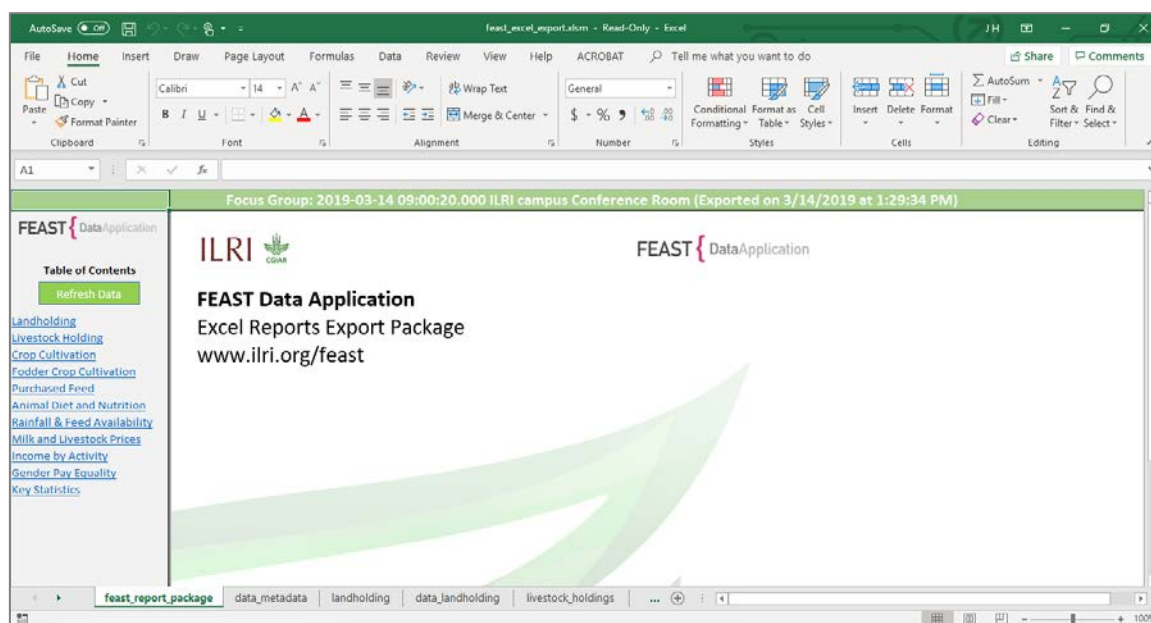
The third step is to click the button to open the Excel report package.

3. Open Workbook to View Data



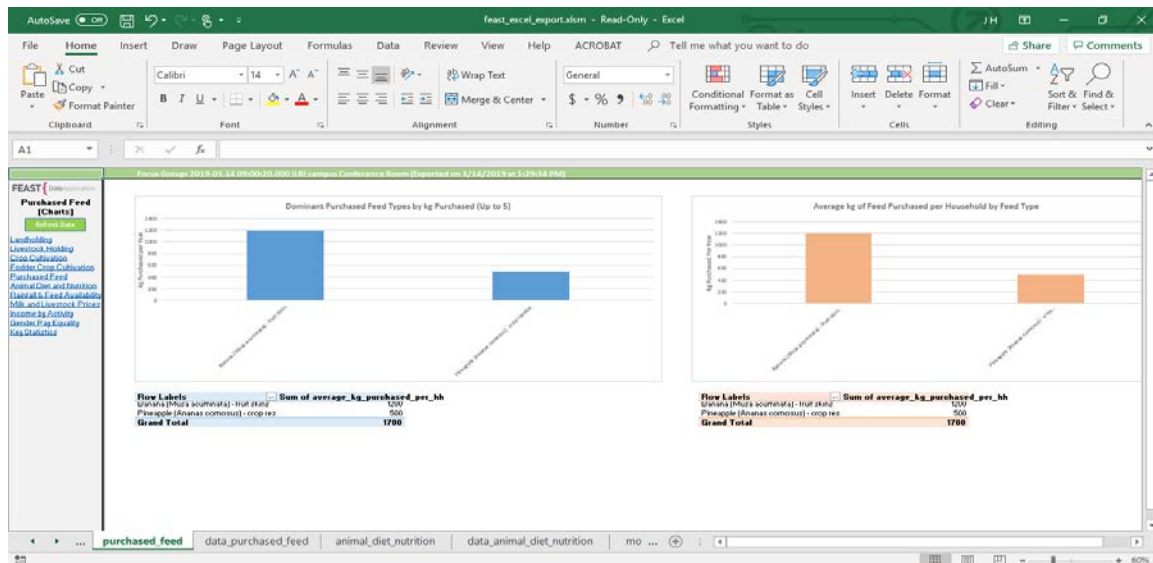
(If, for whatever reason, clicking the button does not open the report package, it can be found inside the “feast_data_app” folder under “Reports\feast_excel_export.xlsm”. However, you should always open the package with the button if possible as it will help ensure that all data is imported correctly).

If you have Excel 2007 or later, the Excel Report package should appear as soon as Excel launches.



Using the list on the left-hand side you can navigate to the various charts and graphs.

FEAST Data Application User Manual



You can also click the tabs along the bottom of the spreadsheet to view chart source data as a table.

The screenshot shows an Excel spreadsheet with a table of monthly rainfall data. The table has columns for project_id, site_id, focus_group_id, month_name, ordering, and rainfall. The data shows rainfall for 12 months, with values ranging from 1 to 12. The spreadsheet has a ribbon with tabs for File, Home, Insert, Draw, Page Layout, Formulas, Data, Review, View, Help, and ACROBAT. The left sidebar shows a list of data sources: Landholding, Livestock Holding, Crop Cultivation, Fodder Crop Cultivation, Purchased Feed, Animal Diet and Nutrition, Rainfall & Feed Availability, Milk and Livestock Prices, Income by Activity, Gender Pay Equality, and Key Statistics. The bottom of the spreadsheet shows tabs for 'monthly_rainfall_and_feed_avail', 'data_monthly_feed_availability', 'data_monthly_rainfall', and 'month ...'.

project_id	site_id	focus_group_id	month_name	ordering	rainfall
1	1	113	January	1	3
1	1	113	February	2	3
1	1	113	March	3	4
1	1	113	April	4	4
1	1	113	May	5	4
1	1	113	June	6	5
1	1	113	July	7	3
1	1	113	August	8	1
1	1	113	September	9	0
1	1	113	October	10	2
1	1	113	November	11	3
1	1	113	December	12	1

If you make any further changes to the data via the input forms, simply re-export the data then click “Refresh Data” in the left-hand menu (or Data > Refresh All via the Excel ribbons).

Intervention Ranking Analysis

The Intervention Ranking Analysis Report is a powerful tool that can suggest promising interventions for improving a community's livestock feed resources. The report presents a series of brief survey questions taken from the Focus Group Discussion Guide plus some additional questions for the facilitator, then compares the responses to a database of potential livestock feed interventions to generate a list of suggestions.

Note that the interventions listed in the Intervention Ranking Analysis Report are merely suggestions for your consideration and do not represent formal recommendations by ILRI. The survey upon which the report is based is subjective and the suitability of interventions may be impacted by factors not accounted for in the report.

Click the “Intervention Ranking Analysis” button on the home menu to display the Intervention Analysis menu. As with FEAST focus group data, assessments are associated with projects and sites [see the section on entering FEAST data for details on creating projects and sites].

Title	ID
3/14/2019 ILRI campus Conference Room	114

If you previously entered focus group data for a Farmer-Centred Diagnosis, then you will find an assessment for that focus group pre-populated on the Intervention Analysis menu under its corresponding project and site. The application also allows you to create assessments independent of any focus group.

To add a new assessment, select or create a project, select or create a site, then click “Add New” to enter data for a new assessment. Just note that you cannot delete an assessment that is associated with a focus group, unless you delete the focus group itself.

Double-clicking an assessment in the table will display the “View/Edit Intervention Analysis” form, which displays basic information about the assessment and forms for entering survey data.

View/Edit Intervention Analysis FEAST {DataApplication

Assessment Title* 3/14/2019 ILRI campus Conference Room

Site: Addis Campus [View Intervention Ranking Report](#)

Core Context Attribute Data **Attribute Weighting**

What Best Describes the Agricultural System? Agro-pastoral / extensive mixed systems

Core Commodity of Interest to Community Dairy cattle / buffalo

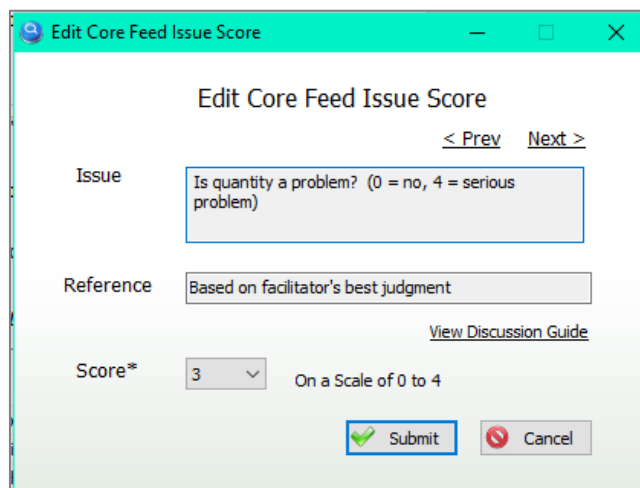
Core Context Attribute / Feed Issue Ratings On a Scale of 0 to 4 [Edit](#)

Attribute	Score	Reference
Availability of cash / credit (4 = best)	3	Question 1.8 FEAST discussion
Availability of input delivery (4 = best)	2	Question 1.10 FEAST discussion
Availability of knowledge / skill (4 = best)	2	Based on facilitator's best judgment
Availability of labour (4 = best)	1	Question 1.6 FEAST discussion
Availability of land for fodder cultivation (4 = best)	3	Question 1.9 FEAST discussion
Availability of water in growing season (4 = best)	4	Question 1.5.2 FEAST discussion
Is energy / protein shortage a problem? (0 = no, 4 = serious problem)	2	Based on facilitator's best judgment

[Submit](#) [Cancel](#)

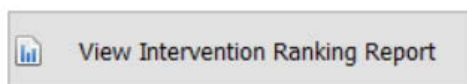
The “Core Context Attribute Data” tab contains a table listing survey questions, plus drop-down fields to select the primary livestock commodity of interest to local farmers and the predominant farming system in the area.

Double clicking a row or selecting a row then clicking “Edit” will open a form where you may enter a score between 0 and 4 for each issue. Use the “< Prev” and “Next >” links to cycle between the issues on the list.

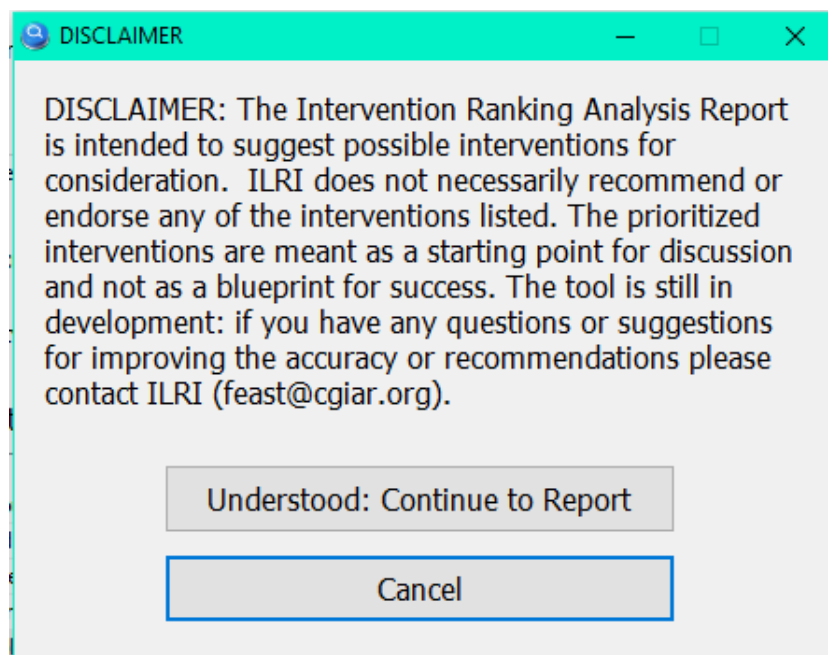


The screenshot shows a web browser window titled "Edit Core Feed Issue Score". The form has a title "Edit Core Feed Issue Score" and navigation links "< Prev" and "Next >". It contains three main sections: "Issue" with a text box containing "Is quantity a problem? (0 = no, 4 = serious problem)", "Reference" with a text box containing "Based on facilitator's best judgment", and "Score*" with a dropdown menu showing "3" and the text "On a Scale of 0 to 4". There is also a link "View Discussion Guide" and two buttons at the bottom: "Submit" (with a green checkmark icon) and "Cancel" (with a red X icon).

Once you have entered the survey responses and selected the primary livestock commodity and predominant farming system, click the “View Intervention Ranking Report” button on the View/Edit Intervention Analysis form to view a list of suggested interventions.



A disclaimer will appear notifying you that the report is simply a suggestion and that ILRI does not necessarily recommend any of the interventions listed.



The screenshot shows a dialog box titled "DISCLAIMER". The text inside reads: "DISCLAIMER: The Intervention Ranking Analysis Report is intended to suggest possible interventions for consideration. ILRI does not necessarily recommend or endorse any of the interventions listed. The prioritized interventions are meant as a starting point for discussion and not as a blueprint for success. The tool is still in development: if you have any questions or suggestions for improving the accuracy or recommendations please contact ILRI (feast@cgiar.org).". At the bottom, there are two buttons: "Understood: Continue to Report" and "Cancel".

The first page of the report displays a list of suggested interventions and the scores each intervention received for five major ranking criteria.

FEAST Data Application Report Viewer

FEAST DataApplication

Intervention Analysis Report

3/14/2019 ILRI campus Conference Room

Display: Click icons to sort by individual scores. (Click Here for an explanation of scores.)

Scores:

Click intervention to view details.

	Mitigate Core Constraint	Relevance to Commodity	Relevance to Farm System	Match Context Attributes	Production Impact
Grasses - for cut&carry systems (cut from cultivated fodder field under rainfed)	20	20	15	13	20
Rehabilitation of communal/degraded grazing land.	15	20	15	13	20
Short-duration / annual fodder crops (e.g. Oats, maize, sorghum, vetch)	20	20	10	12	20
Supplementation with energy-rich supplements e.g. molasses,	16	20	10	16	20
Use of commercial balanced compounded feeds (e.g. dairy meal)	18	20	10	14	20

The scores listed in the table include:

- **Mitigate Core Constraint** - The intervention's ability to mitigate the major problems identified by local farmers, such as feed quality or quantity, or scarcity during the dry season or growing season.
- **Relevance to Commodity** - The suitability of the intervention to the main type of livestock raised by local farmers.
- **Relevance to Farm System** – The suitability of the intervention given to the predominant type of farming practiced in the community?
- **Match Context Attributes** - How closely the intervention matches the “core context attributes” rated by the farmers (land, water, labour, credit and inputs plus the level of technical knowledge among local farmers). *If the local area does not meet the minimum threshold for either land or water, then the intervention will be disqualified from the ranking report entirely.*
- **Production Impact:** The overall potential impact of the intervention under ideal conditions.

By default, the Intervention Ranking Analysis Report will show the top five interventions ranked by overall scores. Additional interventions may be listed in the event of ties.

You can click the icon above the column for any one of the factors to see the results ranked by that particular score. There is also an option to expand the list to show rankings for all of the interventions in the database, beyond the top suggestions.

Another available option is to show the normalized score versus the raw score. Normalized scores are always shown on a scale of zero to twenty, to allow for direct comparison of

scores across different factors. For raw scores, each factor is measured using a different numerical scale.

From the ranking list, click on an intervention to see a page with a brief summary of the intervention – if available - and rationales for each of the scores it received.

The screenshot shows a web application window titled "FEAST Data Application Report Viewer". The main heading is "Intervention Analysis Report". Below the heading is a link "Back to Results". The report title is "Grasses - for cut&carry systems (cut from cultivated fodder field under rainfed)".

The report text states: "There are many tall grasses that are used for intensive fodder production for different environments and situations. They are mostly grown in rows, like crops, in intensively managed plots. They are cut regularly, chopped and fed fresh to stall-fed animals (thus the term 'cut and carry'). They can also be planted as hedgerows or field boundaries. Grass species used in such systems include Panicum maximum (guinea), Pennisetum purpureum (napier) and hybrids (such as Pakchong 1), P. pedicellatum (Desho grass), Brachiaria hybrids (mulato), Brachiaria brizantha (brizantha), Chloris gayana (rhodes), Paspalum atratum (atratum), Tripsacum laxum (guatemala grass) and Axonopus scoparius (imperial grass). All are perennial species that can be used for several years before they need to be replanted. Most grasses can be established from seed or from vegetative cuttings. This makes it easy for farmers to expand their plots."

Below the text is a link "Read More Online".

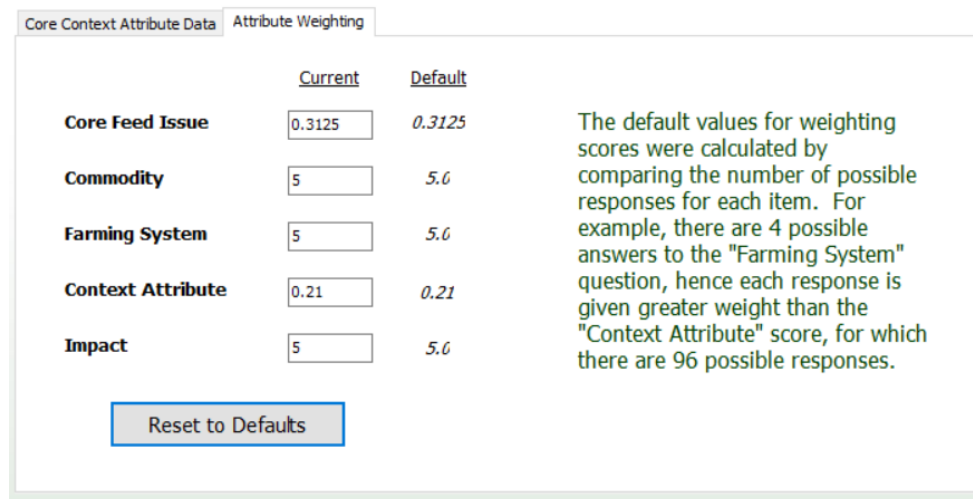
Score	Value	Rationale	Weighting
<p>● Mitigate Core Constraint</p>	20	<p>Overall, the scores suggest that this intervention has a very high potential to mitigate the area's core constraints.</p> <ul style="list-style-type: none"> Moderate potential to mitigate the area's dry season feed scarcity issues, which the survey rated as a major constraint Very high potential to mitigate the area's growing season feed scarcity issues, which the survey rated as a major constraint Very high potential to mitigate the area's feed quality issues, which the survey rated as a moderate constraint High potential to mitigate the area's feed quantity issues, which the survey rated as a major constraint 	0.3125

Click the "Read More Online" link at the end of the summary to view a full tech sheet on the ILRI website with detailed information about the intervention.

Advanced Settings

The Intervention Ranking Analysis Report allows you to adjust the calculations used for ranking suggested interventions.

Selecting the “attribute weighting” tab on the View/Edit Intervention Analysis menu will let you change how heavily the app weighs each factor when ranking interventions in the report. We do not recommend adjusting these settings without a very strong reason – for instance, if you were aware of specific circumstances within a community that made the type of farming system irrelevant to interventions.



	<u>Current</u>	<u>Default</u>
Core Feed Issue	0.3125	0.3125
Commodity	5	5.6
Farming System	5	5.6
Context Attribute	0.21	0.21
Impact	5	5.6

The default values for weighting scores were calculated by comparing the number of possible responses for each item. For example, there are 4 possible answers to the "Farming System" question, hence each response is given greater weight than the "Context Attribute" score, for which there are 96 possible responses.

Reset to Defaults

If you unintentionally change the weighting or desire to change it back to the pre-set values, then click the “Reset to Defaults” button and the values will be updated to the default settings.

Custom Statistics and Units of Measurement

Throughout the interface, you will find many links to add custom statistics and units of measurement, including:

- Units of area
- Units of weight/mass
- Currency exchange rates
- Livestock types
- Crop, Fodder Crop and Purchased Feed types
- Community types

These options are included to help you better represent the unique conditions for the community in the data. However, it must be said that **custom statistics and units of measurement should be defined only when necessary**, as having too many variations of similar statistics will make it difficult for people to interpret the data in a meaningful way (for example, having twenty different types of dairy cows or adding a custom crop type for ‘rhubarb’ for the sake of the one farmer who grows less than a square meter’s worth in their garden).

The Statistics and Units of Measurement Section

While the entry forms can be accessed wherever custom units or animal/crop types are used in the data entry interface, you can manage any custom statistics or units of measurement via the “Statistics and Units of Measurement” link on the home page.

Statistics and Units of Measurement FEAST {DataApplication}

Crops Fodder Purchased Feed Livestock Species Units Currency / Income Communities

Standard Crop Types

Description	Harvest Index	DM (%)	ME (MJ/kgDM)	CP (%)	Reference
Banana (Mus...	0.44	9	8.66		9.5 DPI (n.d), D...
Barley (Hord...	0.534	88	7.201296		4.1 NRC (1978), ...
Broad beans ...	0.54	92.2	6.8		4 Keftasa (198...
Buckwheat (...)	0.3	92.69	6.34		8.94 DPI (n.d), D...
Cabbage (Br...	0.7353	5.77	10.77		15.63 DPI (n.d), D...
Carrot (Dauc...	0.842	16.4	10.173924		12.1 FAO (n.d), F...
Cassava (Ma...	0.8696	16.1	10.006452		19.94 FAO (n.d), ...

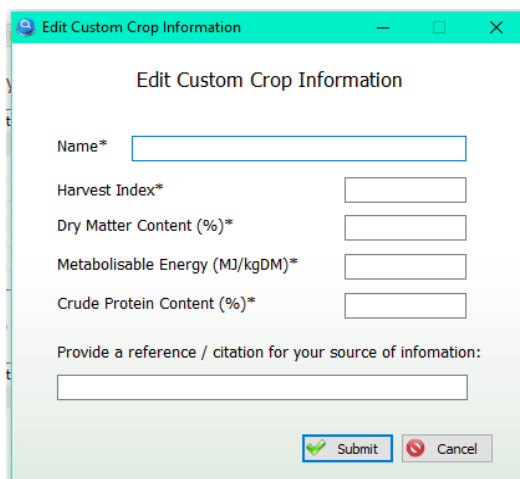
My Custom Crop Types [New] [Edit] [Delete]

Description	Harvest Index	DM (%)	ME (MJ/kgDM)	CP (%)	Reference
St. John's Wort	0.4	20		1	10 Completely Inaccurate

Close

Crops

The first page, Crops, has two grids. One displays standard crop types that may not be edited. The second displays any custom crop types you have defined. Adding or editing will bring up the following form:

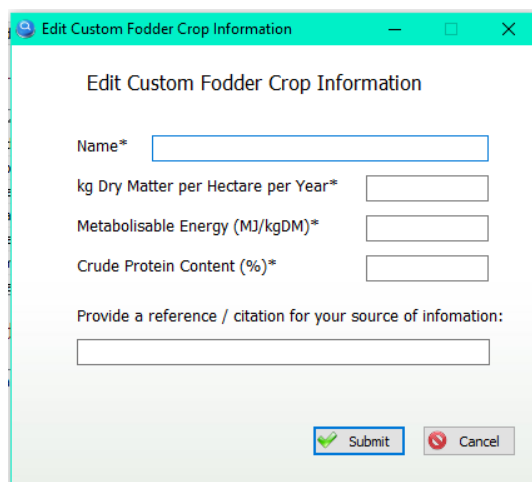


The screenshot shows a window titled "Edit Custom Crop Information". Inside, the title "Edit Custom Crop Information" is centered. Below it, there are five input fields, each with an asterisk indicating it is required: "Name*", "Harvest Index*", "Dry Matter Content (%)", "Metabolisable Energy (MJ/kgDM)", and "Crude Protein Content (%)". Below these fields is a text prompt "Provide a reference / citation for your source of information:" followed by a text input field. At the bottom right, there are two buttons: "Submit" with a green checkmark icon and "Cancel" with a red X icon.

In addition to a name, you will need to add data for the Harvest Index, Dry Matter Content %, Metabolisable Energy in MJ/kg and Crude Protein Content %. There is also a field to cite a reference for the statistics. For the sake of the integrity of your reports, make sure that any new crop types you add are based on complete and reliable information.

Fodder

The Fodder tab is structured in a similar way with standard types above and custom types below. Editing or adding custom types opens the following form:

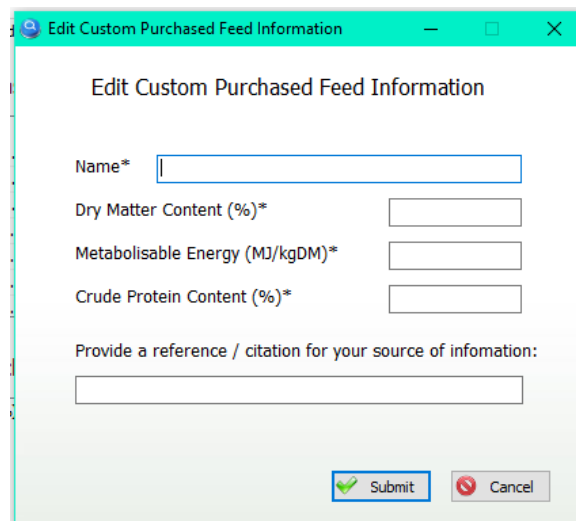


The screenshot shows a window titled "Edit Custom Fodder Crop Information". Inside, the title "Edit Custom Fodder Crop Information" is centered. Below it, there are four input fields, each with an asterisk indicating it is required: "Name*", "kg Dry Matter per Hectare per Year*", "Metabolisable Energy (MJ/kgDM)", and "Crude Protein Content (%)". Below these fields is a text prompt "Provide a reference / citation for your source of information:" followed by a text input field. At the bottom right, there are two buttons: "Submit" with a green checkmark icon and "Cancel" with a red X icon.

Once again, you will need to enter key data for the fodder crop and a reference.

Purchased Feed

The Purchased Feed tab also follows the pattern of standard types above, custom types below. When adding or editing, the following form appears.

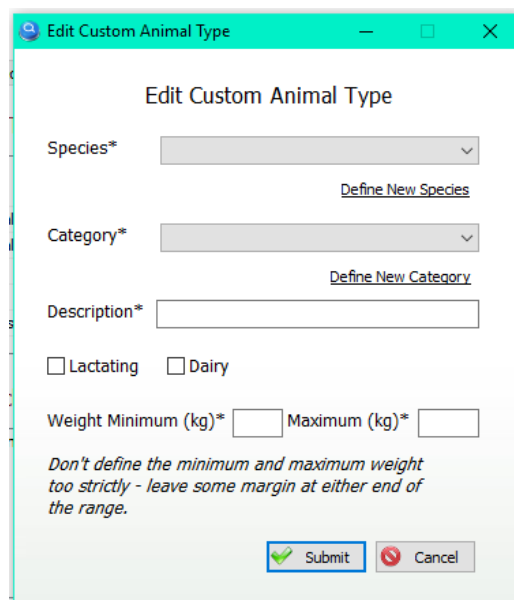


The screenshot shows a window titled "Edit Custom Purchased Feed Information". Inside the window, the title "Edit Custom Purchased Feed Information" is centered at the top. Below the title, there are four input fields: "Name*" (a text box), "Dry Matter Content (%)*" (a text box), "Metabolisable Energy (MJ/kgDM)*" (a text box), and "Crude Protein Content (%)*" (a text box). Below these fields is a label "Provide a reference / citation for your source of information:" followed by a text box. At the bottom right of the window are two buttons: "Submit" (with a green checkmark icon) and "Cancel" (with a red X icon).

You will need to add the requisite statistics and a reference.

Livestock Types

The Livestock Types tab also has standard types above, custom types below. Adding or editing custom types opens the following form:



The screenshot shows a window titled "Edit Custom Animal Type". Inside the window, the title "Edit Custom Animal Type" is centered at the top. Below the title, there are two dropdown menus: "Species*" and "Category*", each with a "Define New Species" or "Define New Category" link below it. Below these is a "Description*" text box. Then there are two checkboxes: "Lactating" and "Dairy". Below these are two text boxes for "Weight Minimum (kg)*" and "Maximum (kg)*". Below these fields is a note: "Don't define the minimum and maximum weight too strictly - leave some margin at either end of the range." At the bottom right of the window are two buttons: "Submit" (with a green checkmark icon) and "Cancel" (with a red X icon).

From this form, you may select the species and category for the custom type, and also define custom species and categories. Other requisite data is a description and the minimum and maximum weight range in kilograms.

Species

The Species tab has a different type of layout.

The screenshot shows the 'Statistics and Units of Measurement' window with the 'Species' tab selected. The window has a title bar and a menu bar with options: Crops, Fodder, Purchased Feed, Livestock, Species, Units, Currency / Income, and Communities. The main content area is divided into four sections:

- Standard Animal Species:** A list box containing 'Buffalo', 'Camel', 'Cattle', 'Donkey', and 'Goat'. An 'Edit' button is next to it.
- Standard Livestock Sales Categories:** A table with two columns: Species and Sex. The data is as follows:

Species	Sex
Cattle	male
Cattle	female
Goat	female
Goat	male
Sheep	female
Sheep	male
- My Custom Species:** A text input field with a placeholder 'animal_specie...'. Above it are 'New', 'Edit', and 'Delete' buttons.
- My Custom Livestock Sales Categories:** A table with two columns: Species and Sex. The data is as follows:

Species	Sex
	female
	male

 Above it are 'New' and 'Delete' buttons.

A 'Close' button is located at the bottom right of the window.

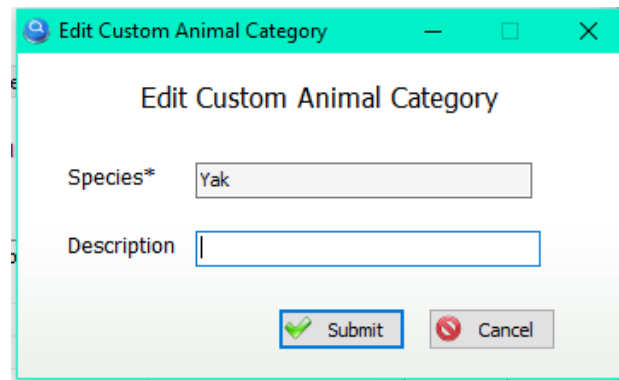
While you cannot edit standard livestock species, clicking “edit” will allow you to add custom categories for that species.

The screenshot shows the 'Edit Categories' window. It has a title bar and a menu bar. The main content area contains:

- Species:** A text input field with the value 'Buffalo'.
- Custom Categories:** A section with 'New', 'Edit', and 'Delete' buttons.
- Description:** A large text area for entering a description.

A 'Close' button is located at the bottom right of the window.

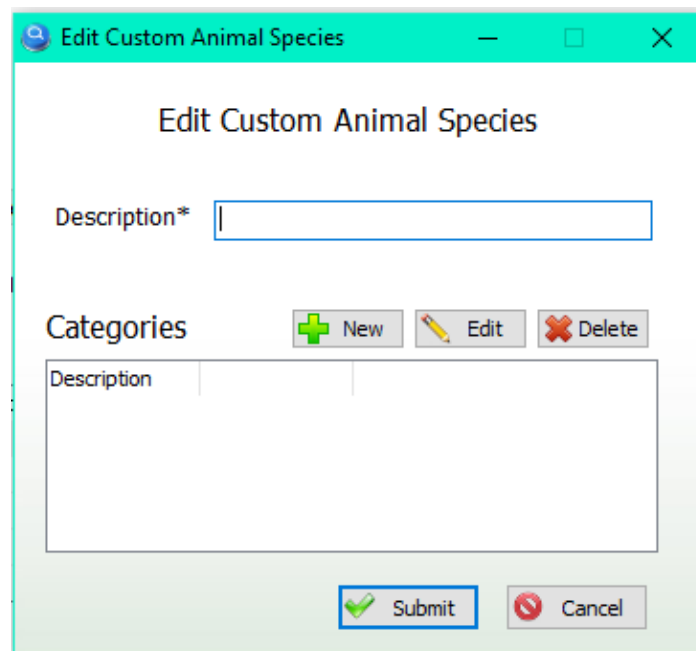
To add, edit or delete custom categories you can use the standard grid controls. Adding or editing opens the following form:



The screenshot shows a dialog box titled "Edit Custom Animal Category". It has a light blue header bar with the title and standard window controls (minimize, maximize, close). The main content area is white and contains two text input fields. The first field is labeled "Species*" and contains the text "Yak". The second field is labeled "Description" and is currently empty. At the bottom of the dialog, there are two buttons: a "Submit" button with a green checkmark icon and a "Cancel" button with a red X icon.

As long as a category with the same name does not already exist for the animal species, it will be added to all relevant drop-down lists.

Adding or editing custom species will open this form:

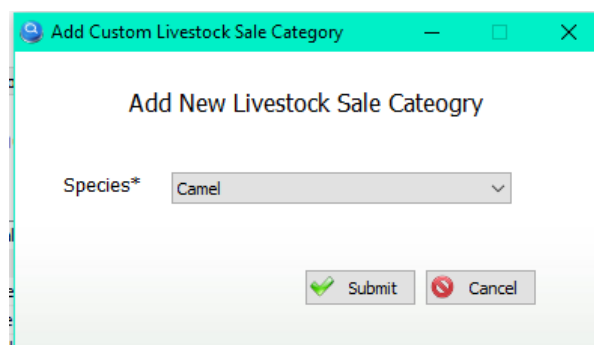


The screenshot shows a web application window titled "Edit Custom Animal Species". The window has a teal header bar with a magnifying glass icon, the title, and standard window controls (minimize, maximize, close). The main content area is white and contains the following elements:

- A heading "Edit Custom Animal Species" centered at the top.
- A text input field labeled "Description*" with a blue border.
- A section titled "Categories" with three buttons: a green plus icon labeled "New", a pencil icon labeled "Edit", and a red X icon labeled "Delete".
- A table with one visible row containing the text "Description".
- At the bottom, two buttons: a green checkmark icon labeled "Submit" and a red X icon labeled "Cancel".

You can use the grid to add categories as needed.

To add additional livestock species to the animal sales section, use the grid.



The screenshot shows a web application window titled "Add Custom Livestock Sale Category". The window has a teal header bar with a magnifying glass icon, the title, and standard window controls (minimize, maximize, close). The main content area is white and contains the following elements:

- A heading "Add New Livestock Sale Category" centered at the top.
- A dropdown menu labeled "Species*" with "Camel" selected and a downward arrow.
- At the bottom, two buttons: a green checkmark icon labeled "Submit" and a red X icon labeled "Cancel".

Select any species from the drop-down and male and female sale categories will be added.

Units Tab

The Units tab reverts to the standard items above, custom items below scheme.

The screenshot shows the 'Statistics and Units of Measurement' window with the 'Units' tab active. The window has a teal header bar with the title and standard window controls. Below the header, there's a navigation bar with tabs: Crops, Fodder, Purchased Feed, Livestock, Species, Units (selected), Currency / Income, and Communities. The main content area is divided into four sections:

- Standard Units of Weight / Mass:** A table with columns 'Unit', '=kg', and 'Standard / Local'. It lists 'klogram' with a value of '1 standard'.
- Standard Units of Area:** A table with columns 'Unit', '=ha', and 'Standard / Local'. It lists 'acre' with a value of '0.404686 standard' and 'hectare' with a value of '1 standard'.
- My Custom Units of Weight / Mass:** Includes 'New', 'Edit', and 'Delete' buttons. Below is a table with columns 'Unit', '=kg', and 'Standard / Local'. It lists 'Bale' with a value of '14 standard' and 'Guria' with a value of '0.05 local'.
- My Custom Units of Area:** Includes 'New', 'Edit', and 'Delete' buttons. Below is an empty table with columns 'Unit', '=ha', and 'Standard / Local'.

A 'Close' button is located at the bottom right of the window.

When adding custom units of weight / mass the following form appears:

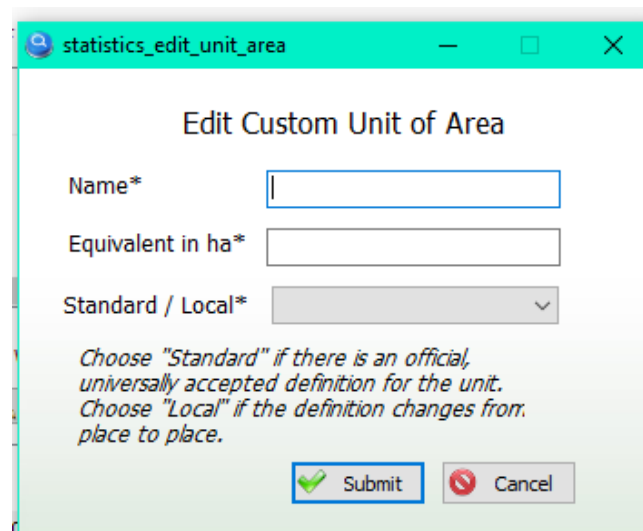
The screenshot shows the 'Edit Unit of Weight / Mass' dialog box. It has a teal header bar with the title and standard window controls. The main content area is titled 'Edit Custom Unit of Weight / Mass' and contains the following fields:

- Name*:** A text input field.
- Equivalent in kg*:** A text input field.
- Standard / Local*:** A dropdown menu.

Below the fields, there is a note: "Choose 'Standard' if there is an official, universally accepted definition for the unit. Choose 'Local' if the definition changes from place to place." At the bottom, there are 'Submit' and 'Cancel' buttons.

Enter a name for the unit, an equivalent in kilograms and whether the unit is standard (same definition everywhere in the world) or local (changes from community to community).

Similarly, the Edit Custom Unit of Area form gives the same options, except with equivalence in hectares.



The screenshot shows a window titled "statistics_edit_unit_area" with a teal header bar. The main title is "Edit Custom Unit of Area". It contains three input fields: "Name*" (a text box), "Equivalent in ha*" (a text box), and "Standard / Local*" (a dropdown menu). Below these fields is a paragraph of instructions: "Choose 'Standard' if there is an official, universally accepted definition for the unit. Choose 'Local' if the definition changes from place to place." At the bottom are two buttons: "Submit" (with a green checkmark icon) and "Cancel" (with a red X icon).

Currency / Income Tab

While you cannot add your own currencies, you may update the exchange rates via the grid.

The screenshot shows the 'Statistics and Units of Measurement' window with the 'Currency / Income' tab selected. The window title is 'Statistics and Units of Measurement' and the logo 'FEAST {DataApplication}' is visible. The tab bar includes 'Crops', 'Fodder', 'Purchased Feed', 'Livestock', 'Species', 'Units', 'Currency / Income', and 'Communities'. The main content area is divided into three sections:

- Currency Exchange Rates in USD:** A table with columns 'Currency', 'Name', 'Default Value...', and 'Current E...'. It lists various currencies and their exchange rates. Above the table are 'Edit' and 'Reset All' buttons.
- Standard Income-Generating Activities:** A table with columns 'Category' and 'Activity'. It lists activities like 'Cash Crops', 'Dairying', 'Fattening An...', 'Food Crops', and 'Labouring / S...'. Above the table are 'New', 'Edit', and 'Delete' buttons.
- Custom Income-Generating Activities:** A section for adding custom activities, with a 'New' button and a table with columns 'Category' and 'Activity'.

A 'Close' button is located at the bottom right of the window.

Select a currency and click edit to open this form:

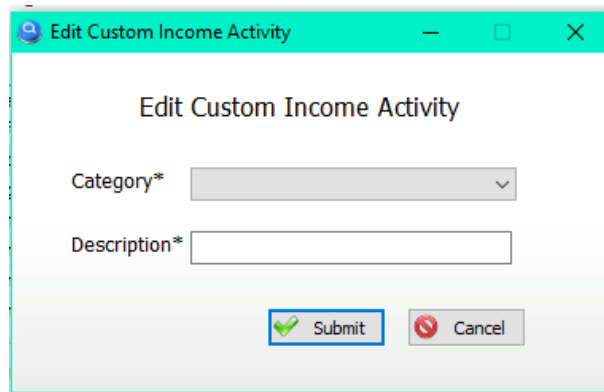
The screenshot shows the 'Edit Exchange Rate' window. The title bar says 'Edit Exchange Rate'. The main content area is titled 'Update Exchange Rate'. It contains three input fields:

- Currency:** A dropdown menu showing 'Albanian Lek'.
- Default Value in USD:** A text input field containing '0.01'.
- Current Value in USD:** A text input field containing '0.0077'.

At the bottom, there are two buttons: 'Submit' (with a green checkmark icon) and 'Cancel' (with a red X icon).

At any time you can click the "Reset All" button above the currency grid to revert to the default exchange rates.

If you add or edit custom income-generating activities, this form appears:

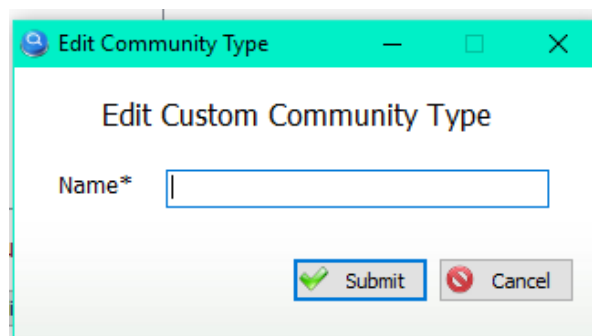


The screenshot shows a dialog box titled "Edit Custom Income Activity". It has a title bar with standard window controls. The main content area contains two fields: "Category*" which is a dropdown menu, and "Description*" which is a text input field. At the bottom right, there are two buttons: "Submit" with a green checkmark icon and "Cancel" with a red X icon.

Select from the pre-defined categories and enter a name. As long as an activity with the same name does not exist, it will be added to relevant drop-downs.

Communities Tab

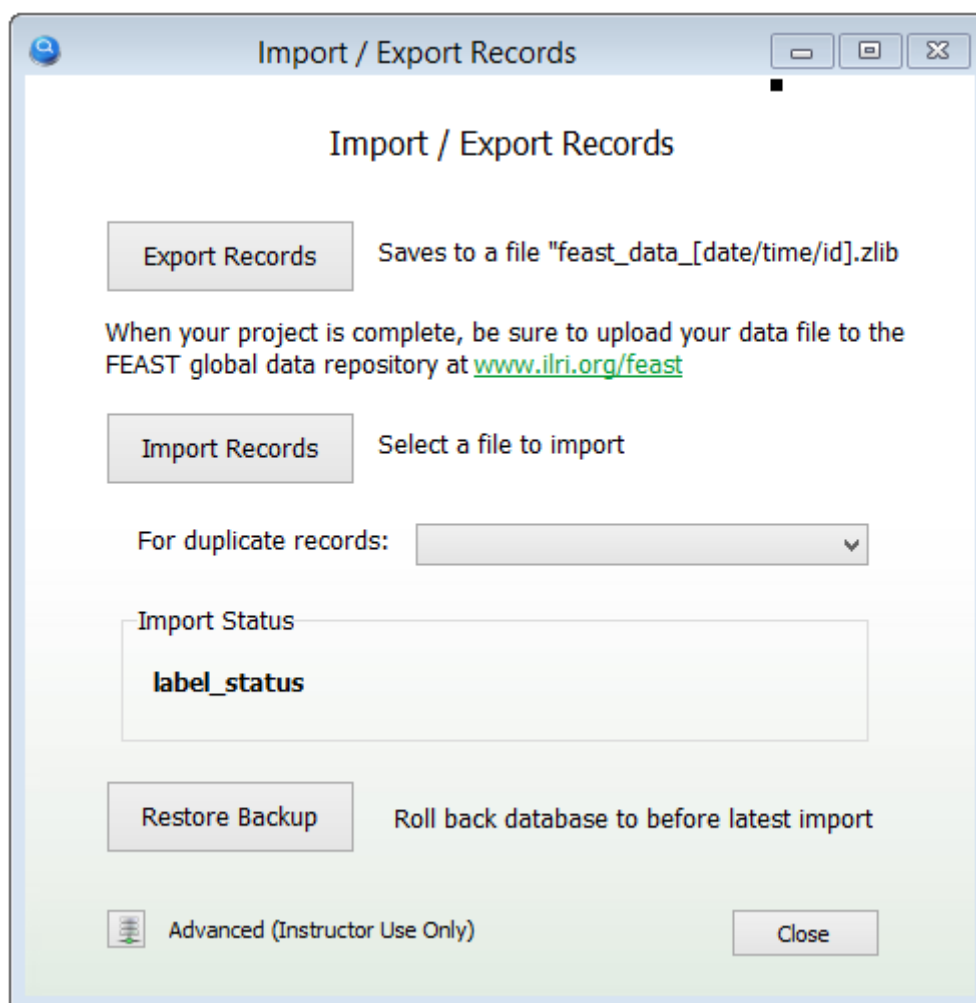
The Communities tab follows the regular standard above / custom below format. You may add new community types with this form:



The screenshot shows a dialog box titled "Edit Community Type". It has a title bar with standard window controls. The main content area contains one field: "Name*" which is a text input field. At the bottom right, there are two buttons: "Submit" with a green checkmark icon and "Cancel" with a red X icon.

Importing, Exporting and Uploading Data

You can export data to upload to the FEAST worldwide data repository or import into another instance of the FEAST Data Application (in case you need to switch to a new computer, upgrade to a new version of the application or consolidate all your records in one place).




To export, click the “Export” button and select a directory on your computer. A file named “feast_data_[date/time/id].zlib” will be created in the directory indicated.

To import exported data from another instance of the application, click “Import Records”, select a FEAST .zlib file and it will be imported. In the dropdown below you can choose whether to keep the existing, imported or newest version of any duplicate records.

Finally, if you wish to reverse the import, you can click “Restore Backup” to reload the database to the state it was in prior to the last import operation.

Uploading to the FEAST Worldwide Data Repository

We encourage all FEAST facilitators to share their data with the larger community by submitting data to the FEAST worldwide data repository. Visit ilri.org/feast for instructions.




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FEAST
GLOBAL DATA REPOSITORY

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Welcome to the FEAST Global Data Repository



The **Feed Assessment Tool (FEAST)** consists of a simple and brief, quantitative questionnaire and software application to aid in the assessment of local feed resource availability and use. This website provides a central repository of FEAST project data, where facilitators may upload their data then download aggregated data sets from around the world for further analysis. The data is intended to provide insights into feed availability, quality and seasonality to help inform intervention strategies.

News

Working out how to improve livestock feeding: The FEAST feed assessment tool

08/24/2016

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