



Pro-Poor
Livestock
Policy
Initiative



Ex ante Tool for Ranking Policy Alternatives

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EXTRAPOLATE
version 1.1 **DRAFT**



◆ User Guide

Table of Contents

- What is EXTRAPOLATE? 1
- What is this User Guide?..... 1
- The EXTRAPOLATE User Interface 2
 - Functions of the Extrapolate User Interface..... 2
- Navigating through EXTRAPOLATE 3
- Changing the Appearance of Data Displayed in Grids 5
 - Grouping Records 5
 - Filtering Records 6
- Working with Extrapolate Model Data..... 8
 - The List of Models..... 9
 - Exporting Models 16
 - Importing Models..... 17
 - Specifying Detailed Data for an Extrapolate Model..... 18
- Summarising Extrapolate Models..... 35
 - Stakeholder Group Summaries 36
 - Outcome Summaries..... 41
 - Constraint Summaries 45
 - Policy Summaries..... 50
- Policy Analysis with Extrapolate 54
 - Impacts on Stakeholder Groups 55
 - Impacts on Outcomes..... 58
 - Impacts on Constraints 61
- Extrapolate System Functions 66
 - Get Help 66
 - Closing the EXTRAPOLATE Software..... 66

What is EXTRAPOLATE?

Extrapolate is a decision support tool that assesses the impact of different policy measures. By disaggregating the effects of policy interventions the tool facilitates discussion of the relevant issues and enables users to visualise the predicted impacts of policy interventions, based on a simple numerical analysis. The tool helps decision makers to sift through a range of policy measures to identify those that could be applied in a specific situation to achieve particular outcomes that further specific policy objectives.

Extrapolate has been developed in close collaboration with policy makers in the livestock sectors of developing countries and thus adapted to meet their specific requirements. The software includes access to an online library of models that have already been developed, enabling users from different regions and disciplines to share knowledge and experiences. Some of these have been written-up more fully as working papers for the FAO Pro-poor Livestock Initiative (PPLPI).

What is this User Guide?

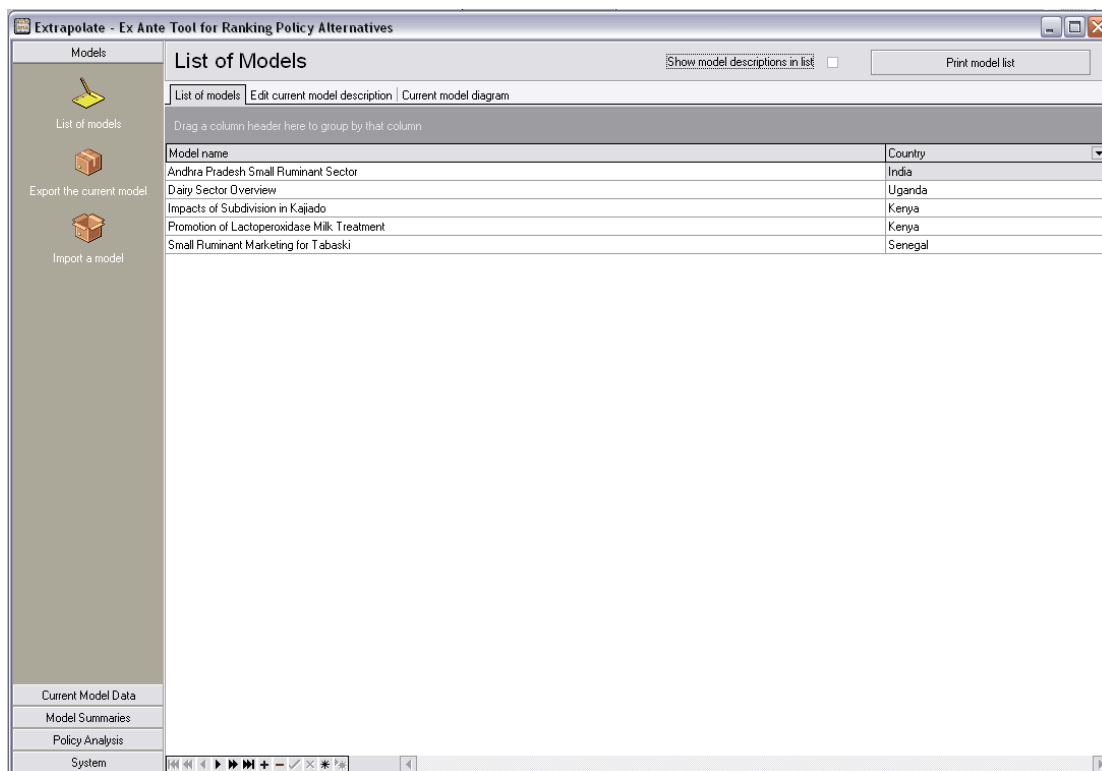
This user guide has been written to provide step-by-step instructions for all the features of the EXTRAPOLATE software. These include how to:

- enter and edit model data;
- view and print summary information;
- run interactive simulations with EXTRAPOLATE and print the results of these.

For more information regarding the rationale behind EXTRAPOLATE and details of its inner workings, please refer to the accompanying EXTRAPOLATE manual (et al., 2005). This guide should be read in conjunction with the full EXTRAPOLATE manual.

The EXTRAPOLATE User Interface

Opening the EXTRAPOLATE software package displays the following user interface.



Functions of the Extrapolate User Interface

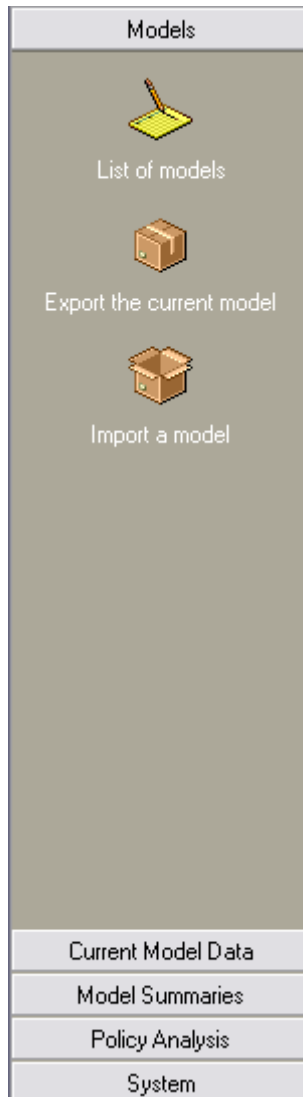
The Extrapolate user interface has been designed to allow the user easy access to the following major functions:

- Displaying and editing the data that are required to run an extrapolate model.
- Displaying exploratory information about the model
- Displaying analytical outputs of model runs

Navigating through EXTRAPOLATE

In order to access the various functions of EXTRAPOLATE, the user need to be familiar with the two major methods of navigation:

- The MS Outlook style side bar on the left-hand side of the user interface gives access to the main pages of the user interface



The navigator bar is divided into five main sections:

- *Models* accesses the functions that allow the user to set up the basic information about Extrapolate models. These include sorting, viewing, editing and adding to the data for individual models as well as viewing or printing information about them. Users can also export and import complete or partially completed models here.
- *Current Model Data* allows editing of the more detailed model data as well as giving access to some tools for assisting with data collection.
- *Model Summaries* are graphical representations of the model data that facilitate an initial exploratory analysis of the policy scenario and help the user to identify policy options for more detailed analysis.
- *Policy Analysis* Allows access to the interactive features that allow comparisons to be made amongst different combinations of policy instruments.
- *System Settings* include changes to the software, setup options access to the on-line help system, contacting the distributors of software and closing the programme.













To use the side bar for navigation:

- ✓ select the section that you require
- ✓ click on the button within the section to display the page that you require.

- The navigation bars that are associated with EXTRAPOLATE's data grids are used to perform various tasks relating to the data in each grid (e.g. moving amongst records or adding and deleting records).



The exact function of each button depends on the grid to which the navigator is attached but the general function of each button is as follows:

-  Go to the first record* in the grid.
-  Go to the previous page of records in the grid.
-  Go to the record that is immediately before the currently selected record.
-  Go to the record that is immediately after the currently selected record.
-  Go to the next page of records in the grid.
-  Go to the last record in the grid.
-  Insert a new record into the grid.
-  Delete the record that is currently selected.
-  Accept any edits that have been made.
-  Cancel the most recent edits.
-  Bookmark the record that is currently selected.
-  Go directly to a record that was previously bookmarked

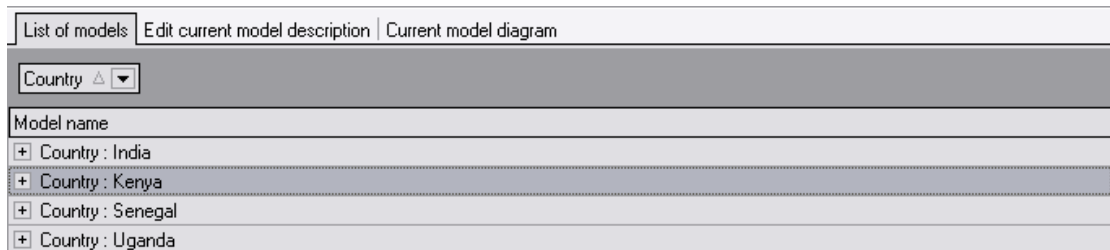
* - in EXTRAPOLATE, a record can be a model, stakeholder group, outcome, constraint or policy depending on which grid is currently in view.

Changing the Appearance of Data Displayed in Grids

Grouping Records

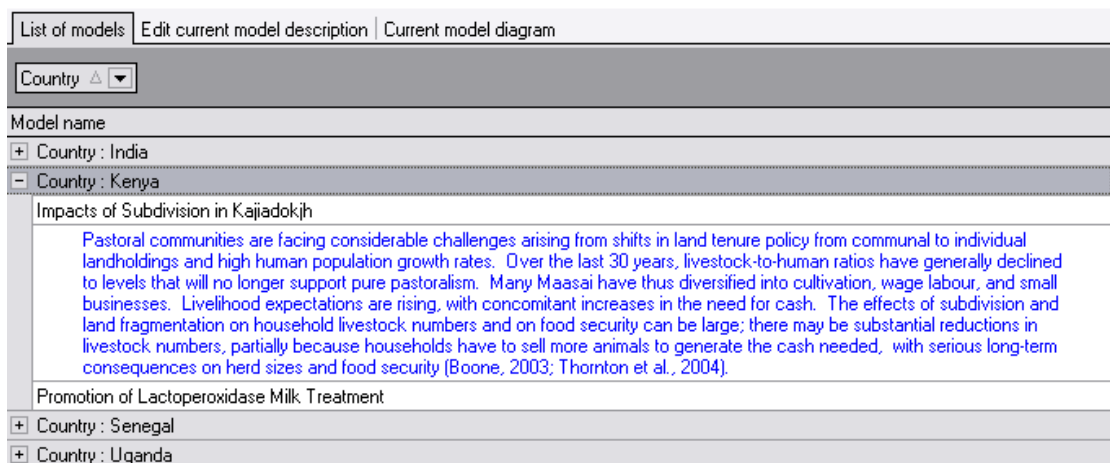
In order to locate particular records in a grid it is sometimes convenient to group these according to a particular characteristic. For example the list of models may be grouped by the country to which the model relates.


To group the list of models by country:



- ✓ Click and hold the *Country* header and drag it to the top bar of the grid. Drag the header back to its original position to switch back to the normal view.

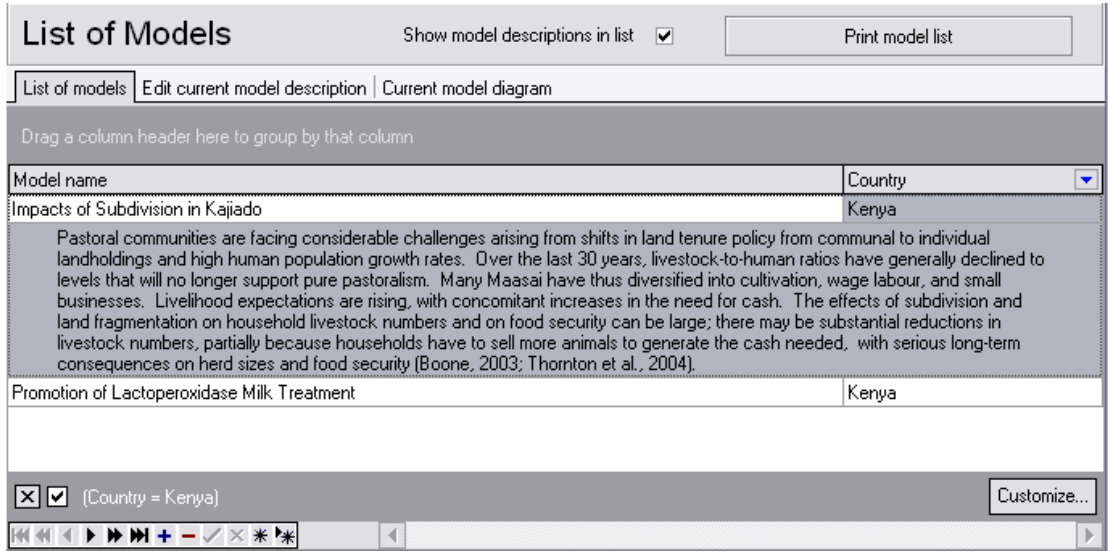
To expand the list of models for a particular country in a grouped list:




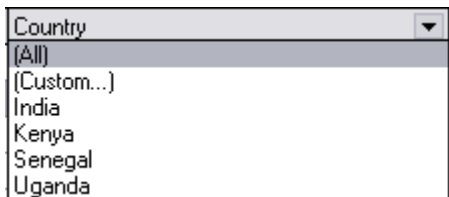
- ✓ Click on the  icon next to the country name

Filtering Records

The records displayed in a grid may be restricted by specifying other criteria for some of their characteristics. For example to display only the models that relate to Kenya in the grid:



- ✓ Click on the  icon on the right-hand side of the country header



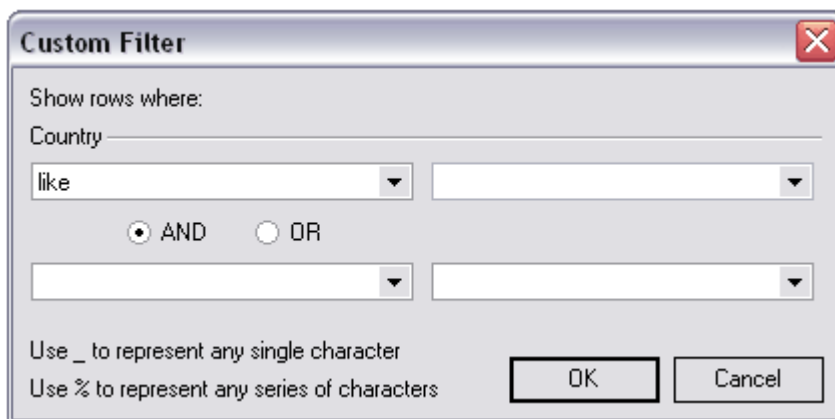
- ✓ Select Kenya from drop-down list that appears

To restore the full list of records in the grid:

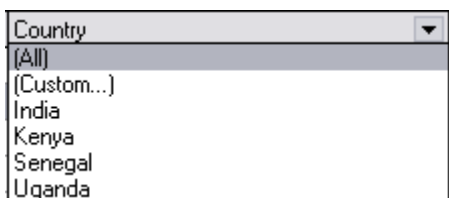


- ✓ Uncheck the box next to the filter condition that is displayed on the left-hand side of the filter bar that appears at the bottom of the grid when a filter is active.

More complex filters may be constructed using the custom filter dialog.




To display this dialog, either



✓ Select custom from the drop-down list

or

✓ Press the  button on the filter bar at the bottom of the grid.

Working with Extrapolate Model Data

EXPTRAPOLATES functions relating to the basic manipulation of models are accessed through the Models section of the side bar.




Displays the list of models allowing basic model information to be edited and a representative diagram of the model to be viewed and manipulated.

Exports the currently selected model to a file.

Imports a new model from an external file specified by the user.

To display the models section of the side bar:

- ✓ Click on the  section heading.

The List of Models

List of Models
Show model descriptions in list
Print model list

List of models | Edit current model description | Current model diagram

Drag a column header here to group by that column

Model name	Country
Andhra Pradesh Small Ruminant Sector <small>Examination of the policy environment that improves availability of and access to feed and fodder resources for small ruminants.</small>	India
Dairy Sector Overview <small>Model based on Jinja workshop and revised by Robinson, Thornton and Thorne on December 1 2006.</small>	Uganda
Impacts of Subdivision in Kajjado <small>Pastoral communities are facing considerable challenges arising from shifts in land tenure policy from communal to individual landholdings and high human population growth rates. Over the last 30 years, livestock-to-human ratios have generally declined to levels that will no longer support pure pastoralism. Many Maasai have thus diversified into cultivation, wage labour, and small businesses. Livelihood expectations are rising, with concomitant increases in the need for cash. The effects of subdivision and land fragmentation on household livestock numbers and on food security can be large; there may be substantial reductions in livestock numbers, partially because households have to sell more animals to generate the cash needed, with serious long-term consequences on herd sizes and food security (Boone, 2003; Thornton et al., 2004).</small>	Kenya
Promotion of Lactoperoxidase Milk Treatment	Kenya
Small Ruminant Marketing for Tabaski	Senegal

The list of models currently loaded into Extrapolate displays by default when the software is opened.

If the list is not currently visible and you wish to view it:



- ✓ Press the button marked List of models under the “Models” heading of the side bar

Displaying Model Descriptions in the List

To view the list with the model descriptions displayed:

List of Models		Show model descriptions in list <input checked="" type="checkbox"/>	Print model list
List of models	Edit current model description	Current model diagram	
Drag a column header here to group by that column			
Model name	Country		
Andhra Pradesh Small Ruminant Sector	India		
Examination of the policy environment that improves availability of and access to feed and fodder resources for small ruminants.			
Dairy Sector Overview	Uganda		
Model based on Jinja workshop and revised by Robinson, Thornton and Thorne on December 1 2006.			
Impacts of Subdivision in Kajjado	Kenya		
Pastoral communities are facing considerable challenges arising from shifts in land tenure policy from communal to individual landholdings and high human population growth rates. Over the last 30 years, livestock-to-human ratios have generally declined to levels that will no longer support pure pastoralism. Many Maasai have thus diversified into cultivation, wage labour, and small businesses. Livelihood expectations are rising, with concomitant increases in the need for cash. The effects of subdivision and land fragmentation on household livestock numbers and on food security can be large; there may be substantial reductions in livestock numbers, partially because households have to sell more animals to generate the cash needed, with serious long-term consequences on herd sizes and food security (Boone, 2003; Thornton et al., 2004).			
Promotion of Lactoperoxidase Milk Treatment	Kenya		
Small Ruminant Marketing for Tabaski	Senegal		

- ✓ Make sure that the **Show model descriptions in list** checkbox is checked.

To hide the model descriptions in the list of models:

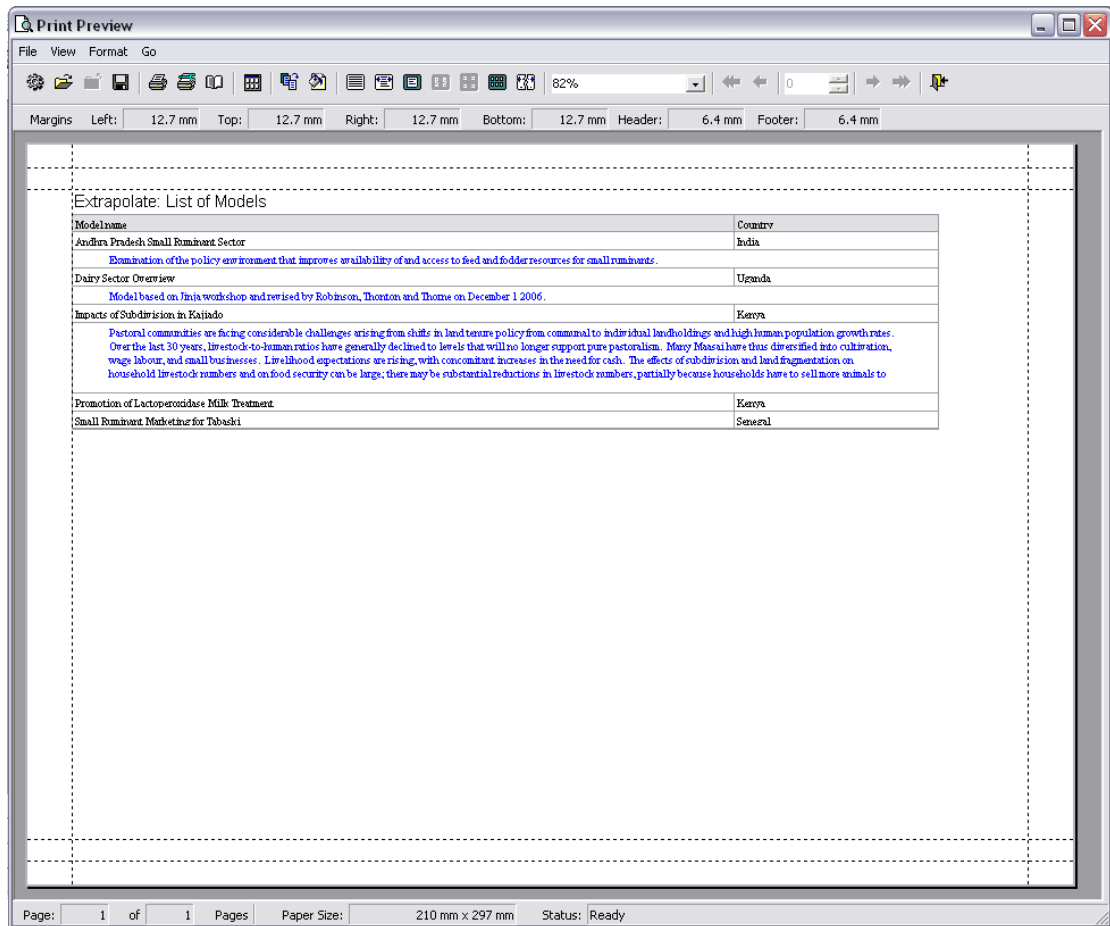
List of Models		Show model descriptions in list <input type="checkbox"/>	Print model list
List of models	Edit current model description	Current model diagram	
Drag a column header here to group by that column			
Model name	Country		
Andhra Pradesh Small Ruminant Sector	India		
Dairy Sector Overview	Uganda		
Impacts of Subdivision in Kajjado	Kenya		
Promotion of Lactoperoxidase Milk Treatment	Kenya		
Small Ruminant Marketing for Tabaski	Senegal		


- ✓ Uncheck the **Show model descriptions in list** checkbox.

Printing the List of Models

The list of models can be printed directly from the List of Models page.

To display the print preview dialog that allows the selection of printers and manipulation of the appearance of the print out:



- ✓ Press the  button on the top right-hand side of the page.

To print to the currently selected printer from the print preview dialog:

Press the  button.

Editing the Model Description

In order to edit the model description:

List of Models Show model descriptions in list Print model list

List of models **Edit current model description** Current model diagram

Driving variable used:

Description

Pastoral communities are facing considerable challenges arising from shifts in land tenure policy from communal to individual landholdings and high human population growth rates. Over the last 30 years, livestock-to-human ratios have generally declined to levels that will no longer support pure pastoralism. Many Maasai have thus diversified into cultivation, wage labour, and small businesses. Livelihood expectations are rising, with concomitant increases in the need for cash. The effects of subdivision and land fragmentation on household livestock numbers and on food security can be large; there may be substantial reductions in livestock numbers, partially because households have to sell more animals to generate the cash needed, with serious long-term consequences on herd sizes and food security (Boone, 2003; Thornton et al., 2004).

- ✓ Select the tab on the List of Models page.
- ✓ Make any changes that you require.
- ✓ Press the button to accept those changes or
- ✓ Press the button to cancel them.

Changing the Model Basis



To change the driving variable for the model:

Driving variable used:	Stakeholder livelihood status
Description	<ul style="list-style-type: none"> Stakeholder livelihood status Custom driving variable

- ✓ Select whether you wish to use the default “Stakeholder livelihood status” as the driving variable or specify a custom driving variable of your own choice

If you choose to use a custom driving variable you will need to give it an appropriate name in the box that appears:

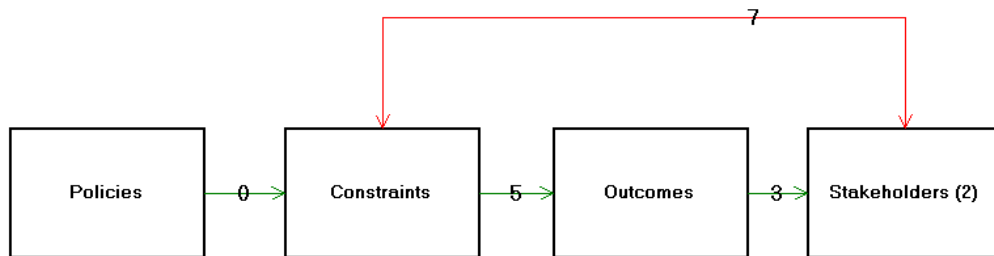
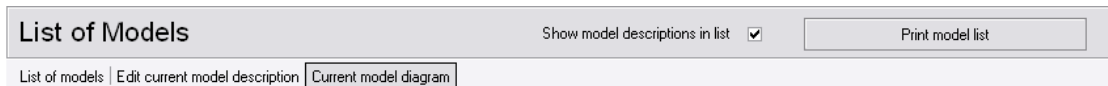
Driving variable used:	Custom driving variable
Custom variable name	My own variable

- ✓ Enter the custom variable name in the text box.
- ✓ Press the  button to accept the name or
- ✓ Press the  button to cancel

The Model Diagram

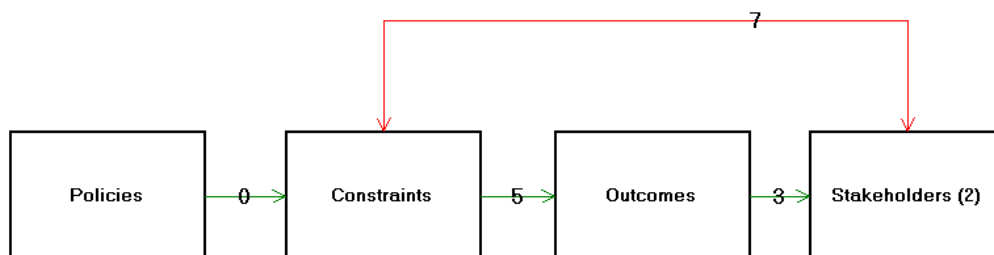
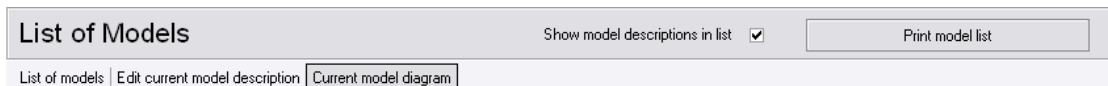
The model diagram summarise the elements in the current model in a way that is easy for the user to assimilate. In addition, it provides a rapid interactive tool for assessing the individual pathways through which policies may exert their effects in the model.

To display the model diagram:



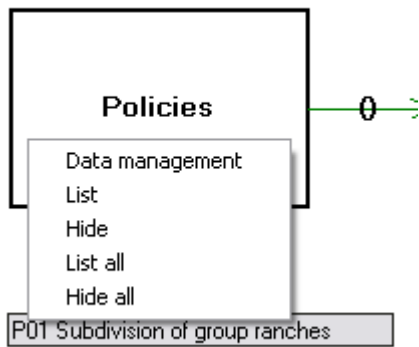
- ✓ Select the **Current model diagram** tab on the List of Models page..

To make the model diagram more useful to the user, it can be expanded to include descriptive drop-down lists of the individual elements of the model. To expand the lists:



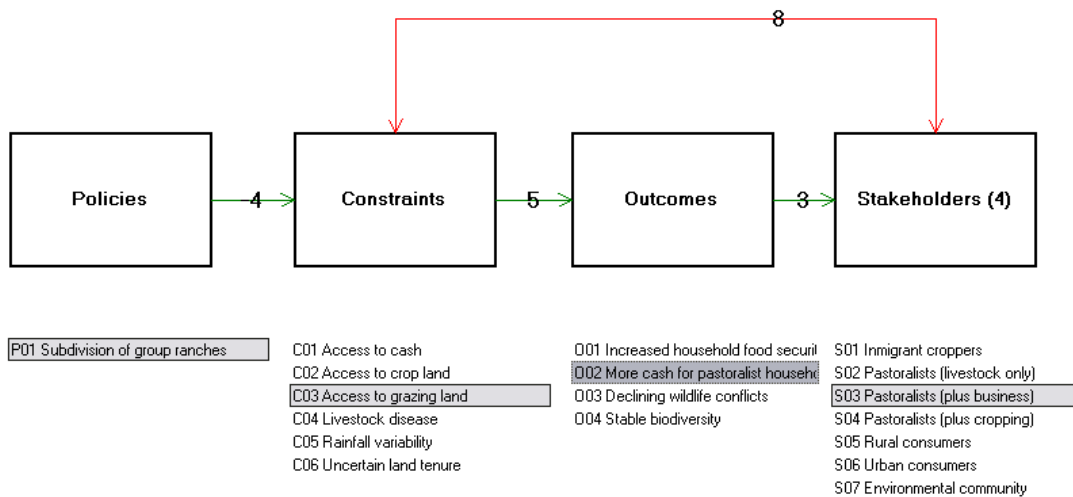
P01 Subdivision of group ranches	C01 Access to cash C02 Access to crop land C03 Access to grazing land C04 Livestock disease C05 Rainfall variability C06 Uncertain land tenure	O01 Increased household food securit O02 More cash for pastoralist househ O03 Declining wildlife conflicts O04 Stable biodiversity	S01 Inmigrant croppers S02 Pastoralists (livestock only) S03 Pastoralists (plus business) S04 Pastoralists (plus cropping) S05 Rural consumers S06 Urban consumers S07 Environmental community
----------------------------------	---	---	--

- ✓ Right-click with the mouse on one of the model boxes (Policies, Constraints, Outcomes or Stakeholders).



- ✓ Select the list display option that you require. Selecting “List” drops-down only the list for the currently selected model box while “List all” drops down the lists for all boxes.

To use the diagram interactively:



- ✓ Select from the elements in the lists to construct a path through the model that you wish to examine

The numbers next to the arrows linking boxes in the model summarise the strength of the interaction between the elements that have been selected under the boxes. A path in which all of these numbers is large suggests a path through which the implementation of the selected policy is likely to be effective. If small numbers (particularly zeros) are displayed in the diagram, the policy is likely to be ineffective via the path that has been constructed.

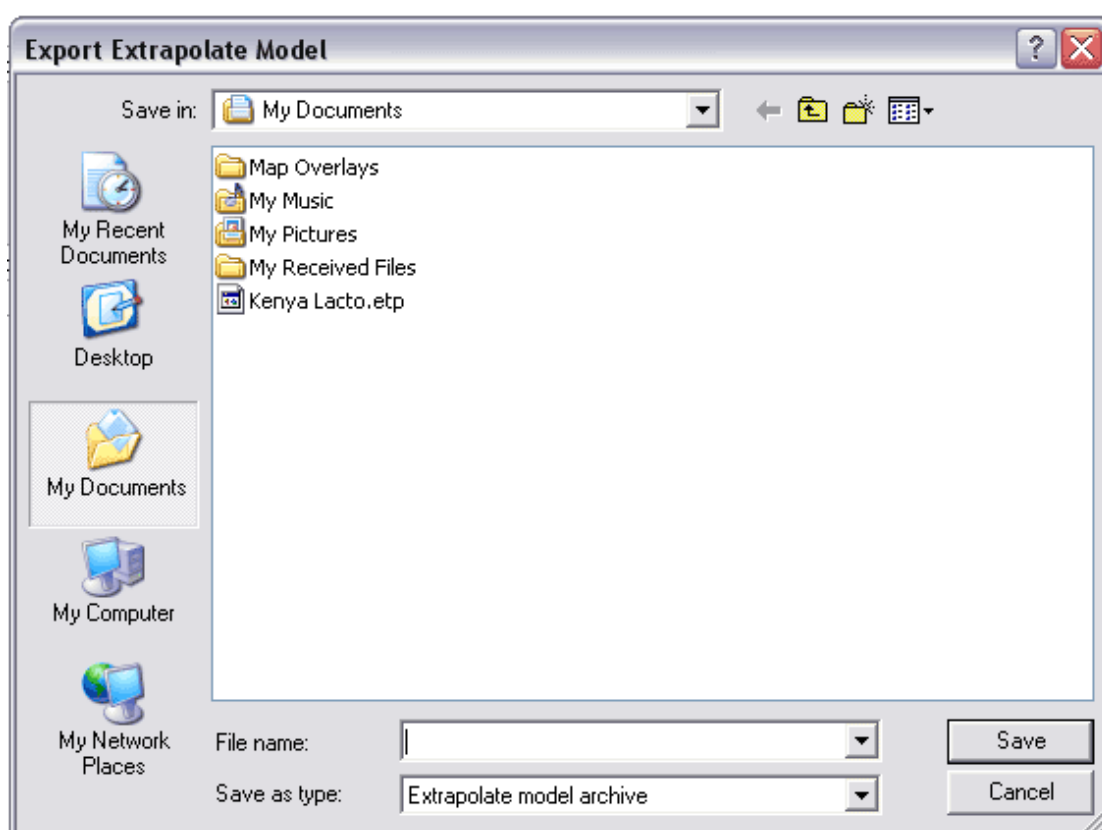
Exporting Models

To export an EXTRAPOLATE model to a file that may be used to circulate the model to other users:

- ✓ Select the model that you wish to export in the List of Models.



- ✓ Press the button marked "Export the current model" under the "Models" heading of the side bar.



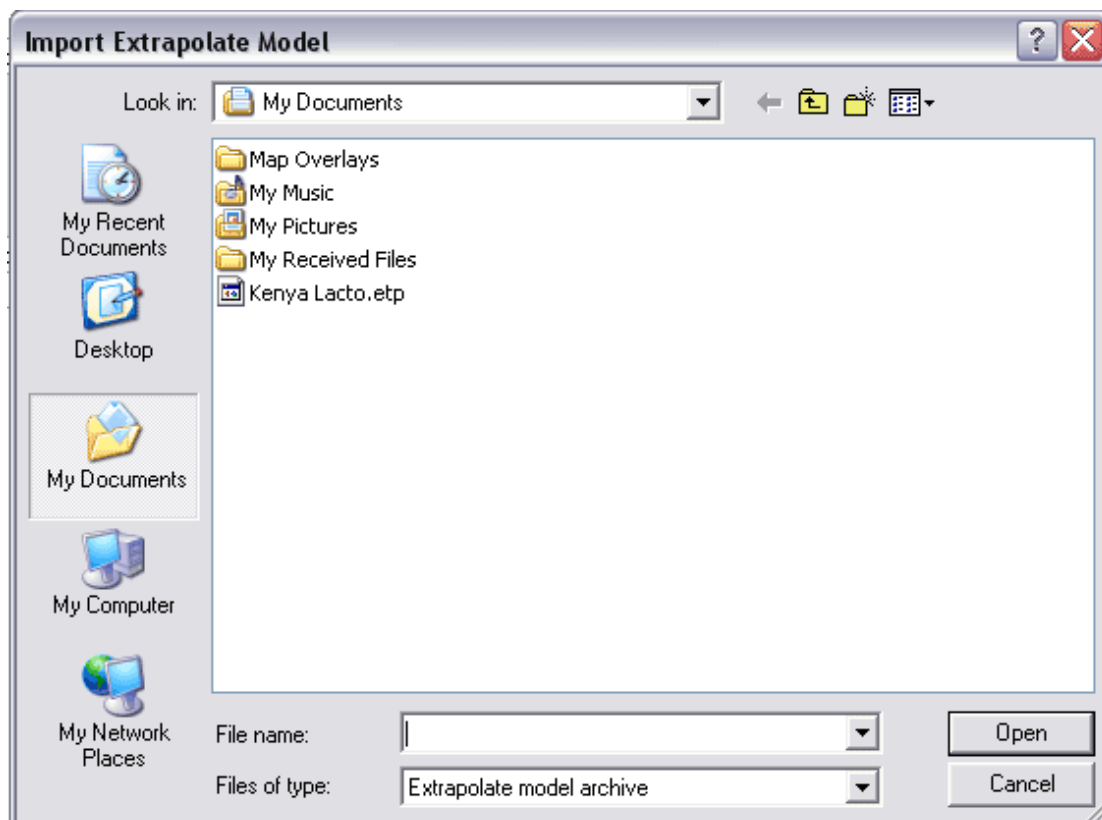
- ✓ Enter a suitable name for the model (.etp) file in the dialog box that appears.

Importing Models

To import a model that has been sent to you by another user:



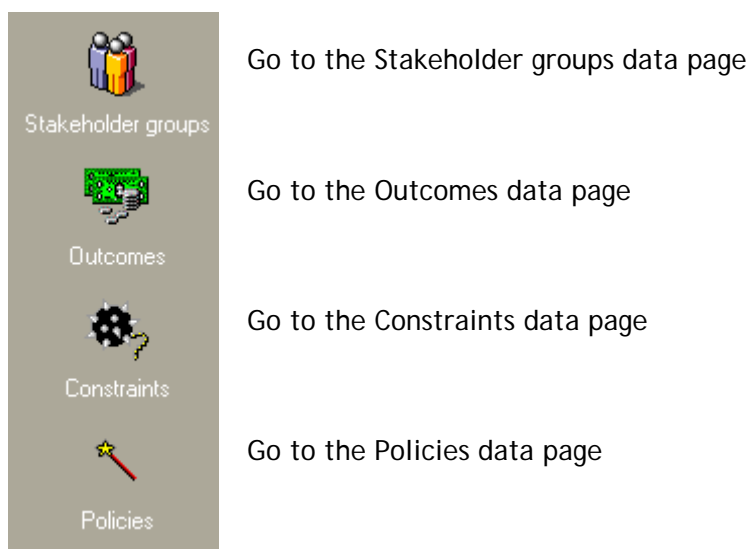
- ✓ Press the button marked "Import a model" under the "Models" heading of the side bar.



- ✓ Select the model file name from the list in the dialog box that appears.

Specifying Detailed Data for an Extrapolate Model

Manipulation of the detailed data that are required to construct an effective EXTRAPOLATE model is accessed via the buttons under the Current Model Data section of the side bar.



After you have selected the model that you wish to work with from the List of Models, to display the Current Model Data section of the side bar:

- ✓ Click on the  section heading.

Stakeholder Group Data

The data required to describe the stakeholder groups in the model may be viewed and edited on the Stakeholder Groups data page.

Stakeholder Groups	
Show group descriptions in list <input checked="" type="checkbox"/>	
Print list of stakeholder groups	
List of stakeholder groups Edit description of current group Pairwise comparisons	
Drag a column header here to group by that column	
Stakeholder group	Livelihood status (0 - 10)
S01 Immigrant croppers	2
S02 Pastoralists (livestock only)	1
S03 Pastoralists (plus business)	4
S04 Pastoralists (plus cropping)	5
S05 Rural consumers	3
S06 Urban consumers	6
S07 Environmental community	10

To access this page:



- ✓ Press the button marked “Stakeholder groups” under the “Current Model Data” heading of the side bar.

The data required to define each stakeholder group consist of:


- A descriptive name for the stakeholder group
- An assessment of the livelihood status of the groups relative to other groups in the model. This may be determined in any way deemed fit by the user although EXTRAPOLATE provides a pairwise ranking tool (see below) for a more systematic assessment if required.
- An optional description of the characteristics of the group that may be accessed via the tab marked [Edit description of current group](#)

Displaying Stakeholder Group Descriptions in the List

To view the list with the descriptions of each stakeholder group displayed:

- ✓ Make sure that the  checkbox is checked.

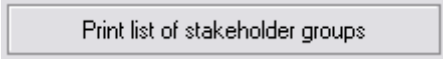
To hide the descriptions in the list of stakeholder groups:

- ✓ Uncheck the  checkbox.


Printing the List of Stakeholder Groups

The list of stakeholder groups can be printed directly from the Stakeholder groups data page.

To display the print preview dialog that allows the selection of printers and manipulation of the appearance of the print out:

- ✓ Press the  button on the top right-hand side of the page.

To print to the currently selected printer from the print preview dialog:

- ✓ Press the  button on the print preview dialog.

Pairwise Ranking of Stakeholder Groups

Extrapolate includes a tool that allows the user to conduct a set of pairwise rankings amongst a model's stakeholder groups in order to generate a more consistent set of values of the relative livelihood statuses of those groups.

Stakeholder Groups
Show group descriptions in list
Print list of stakeholder groups

List of stakeholder groups
Edit description of current group
Pairwise comparisons

Less well endowed
Equally endowed
Better endowed

1/9	1/8	1/7	1/6	1/5	1/4	1/3	1/2	1	2	3	4	5	6	7	8	9
Extremely	Very much	Moderately	Not very					Not very	Moderately	Very much	Extremely					

Consistency ratio: not calculated

Individual comparisons
Consistency matrix

	S01 Inmigrant croppers	S02 Pastoralists (livestock only)	S03 Pastoralists (plus business)	S04 Pastoralists (plus cropping)	S05 Rural consumers	S06 Urban consumers	S07 Environmental community	Calculated rank
S01 Inmigrant croppers	1							
S02 Pastoralists (livestock only)		1						
S03 Pastoralists (plus business)			1					
S04 Pastoralists (plus cropping)				1				
S05 Rural consumers					1			
S06 Urban consumers						1		
S07 Environmental community							1	

To make use of the pairwise comparisons tool

- ✓ Click on the Pairwise comparisons tab.

When the pairwise comparisons grid is displayed, the stakeholder groups currently in the model are transferred automatically to the two axes of the grid. To enter values for each comparison:

Less well endowed				Equally endowed				Better endowed								
1/9	1/8	1/7	1/6	1/5	1/4	1/3	1/2	1	2	3	4	5	6	7	8	9
Extremely	Very much	Moderately	Not very					Not very	Moderately	Very much	Extremely					

- ✓ click on the button that best describes the relationship between the livelihood status of the stakeholder group in the row and that in the corresponding column. The value and its inverse for the column - row comparison will be entered and the cursor will move to the next cell so that the data entry process can be repeated.

Stakeholder Groups

Show group descriptions in list Print list of stakeholder groups

List of stakeholder groups | Edit description of current group | Pairwise comparisons

Less well endowed Equally endowed Better endowed


1/9	1/8	1/7	1/6	1/5	1/4	1/3	1/2	1	2	3	4	5	6	7	8	9
Extremely	Very much	Moderately	Not very				Not very	Moderately	Very much	Extremely						

Consistency ratio: 0.165

Individual comparisons | Consistency matrix

	S01 Immigrant croppers	S02 Pastoralists (livestock only)	S03 Pastoralists (plus business)	S04 Pastoralists (plus cropping)	S05 Rural consumers	S06 Urban consumers	S07 Environmental community	Calculated rank
S01 Immigrant croppers	1	3	1	2	1/5	1/6	1/8	0.62
S02 Pastoralists (livestock only)	1/3	1	1/2	1	1/4	1/7	1/9	0.35
S03 Pastoralists (plus business)	1	2	1	3	1/2	1/4	1/6	0.74
S04 Pastoralists (plus cropping)	1/2	1	1/3	1	1/2	1/3	1/8	0.44
S05 Rural consumers	5	4	2	2	1	1/2	1/5	1.30
S06 Urban consumers	6	7	4	3	2	1	1/3	2.16
S07 Environmental community	8	9	6	8	5	3	1	4.39

When all the cells have been completed, the EXTRAPOLATE will perform the comparisons required to rank the stakeholder groups for livelihood status on a scale of 1 - 10.

	S01 Immigrant croppers	S02 Pastoralists (livestock only)	S03 Pastoralists (plus business)	S04 Pastoralists (plus cropping)	S05 Rural consumers	S06 Urban consumers	S07 Environmental community	Calculated rank
S01 Immigrant croppers	1	3	1	2	1/5	1/6	1/8	0.62
S02 Pastoralists (livestock only)	1/3	1	1/2	1	1/4	1/7	1/9	0.35
S03 Pastoralists (plus business)	1	2	1	3	1/2	1/4	1/6	0.74
S04 Pastoralists (plus cropping)	1/2	1	1/3	1	1/2	1/3	1/8	0.44
S05 Rural consumers	5	4	2	2	1	1/2	1/5	1.30
 S06 Urban consumers	6	7	4	3	2	1	1/3	2.16
S07 Environmental community	8	9	6	8	5	3	1	4.39

The calculated ranks for each stakeholder group are displayed in the right-hand column of the grid. To update the stakeholder group data for the current model with these calculated ranks:

- ✓ Press the button marked 

Consistency ratio: 0.165

The consistency ratio for the pairwise comparisons is displayed on the left-hand side, just above the grid. This is colour-coded, with green indicating that the exercise has been conducted with an acceptable level of consistency. Should the user wish to explore the consistency of the matrix further, a consistency matrix can be displayed.

To display this matrix:

Stakeholder Groups Show group descriptions in list Print list of stakeholder groups

List of stakeholder groups | Edit description of current group | Pairwise comparisons

Less well endowed Equally endowed Better endowed

1/9 1/8 1/7 1/6 1/5 1/4 1/3 1/2 1 2 3 4 5 6 7 8 9 Update stakeholders

Extremely Very much Moderately Not very Not very Moderately Very much Extremely

Consistency ratio: 0.165

Individual comparisons | **Consistency matrix**

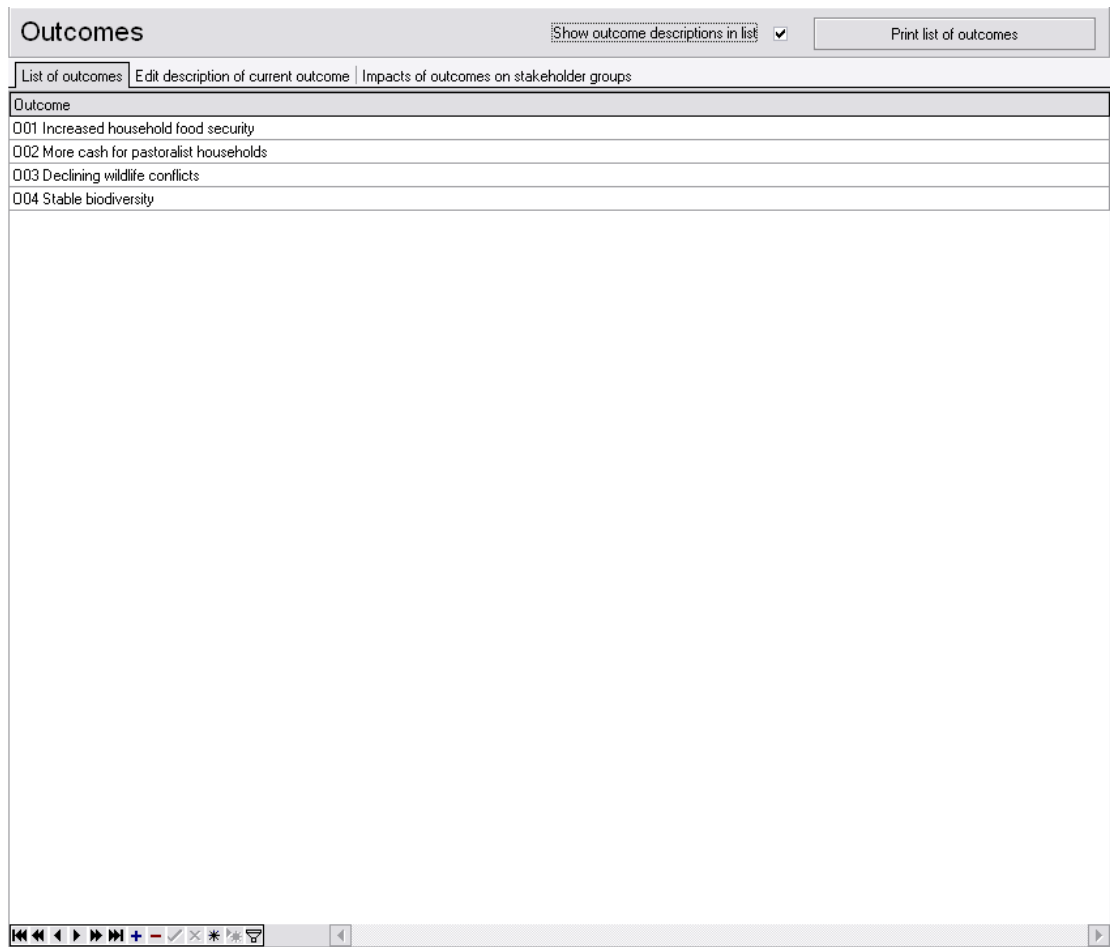
	S01 Immigrant croppers	S02 Pastoralists (livestock only)	S03 Pastoralists (plus business)	S04 Pastoralists (plus cropping)	S05 Rural consumers	S06 Urban consumers
S01 Immigrant croppers	0.062	0.105	0.074	0.088	0.026	0.036
S02 Pastoralists (livestock only)	0.021	0.035	0.037	0.044	0.033	0.031
S03 Pastoralists (plus business)	0.062	0.070	0.074	0.132	0.065	0.054
S04 Pastoralists (plus cropping)	0.031	0.035	0.025	0.044	0.065	0.072
S05 Rural consumers	0.310	0.140	0.148	0.088	0.130	0.108
S06 Urban consumers	0.372	0.245	0.296	0.132	0.260	0.216
S07 Environmental community	0.496	0.315	0.444	0.352	0.650	0.648

- ✓ Select the tab marked Consistency matrix

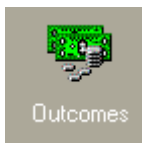
The consistency matrix may be used to search for possible sources of inconsistency in the pairwise comparisons, higher values indicate individual comparisons that may be contradicting comparisons elsewhere in the pairwise grid.

Outcomes Data

The data required to describe the outcomes in the model may be viewed and edited on the Outcomes data page.



To access this page:



- ✓ Press the button marked “Outcomes” under the “Current Model Data” heading of the side bar.

The data required to define each stakeholder group consist of:

- A descriptive name for the outcome
- An optional description of the characteristics of the outcome that may be accessed via the tab marked Edit description of current outcome
- An assessment of the level of impact (on a scale of -5 to +5) that each outcome can be expected to have on each of the stakeholder groups in the model.

Impacts of Outcomes on Stakeholder Groups

Outcomes Show outcome descriptions in list Print summary of outcome impacts

List of outcomes | Edit description of current outcome | **Impacts of outcomes on stakeholder groups**

Drag a column header here to group by that column

Outcome	Stakeholder group	Impact (-5 to +5)
001 Increased production_sales of dairy products	S01 Smallholder intensive	5
001 Increased production_sales of dairy products	S02 Smallholder extensive	2
001 Increased production_sales of dairy products	S03 Medium-scale intensive	4
001 Increased production_sales of dairy products	S04 Medium-scale extensive	2
001 Increased production_sales of dairy products	S05 Large scale	1
001 Increased production_sales of dairy products	S06 Pastoralists	5
001 Increased production_sales of dairy products	S07 Agropastoralists	3
001 Increased production_sales of dairy products	S08 Informal traders	1
001 Increased production_sales of dairy products	S09 Formal traders	1
001 Increased production_sales of dairy products	S10 Informal small processors	1
001 Increased production_sales of dairy products	S11 Formal small processors	0
001 Increased production_sales of dairy products	S12 Large processors_exporters	1
001 Increased production_sales of dairy products	S13 Low-income rural consumers	1
001 Increased production_sales of dairy products	S14 Low-income urban consumers	0
001 Increased production_sales of dairy products	S15 High-income consumers	0
002 Increased profit margins	S01 Smallholder intensive	5
002 Increased profit margins	S02 Smallholder extensive	2
002 Increased profit margins	S03 Medium-scale intensive	4
002 Increased profit margins	S04 Medium-scale extensive	2
002 Increased profit margins	S05 Large scale	1
002 Increased profit margins	S06 Pastoralists	5
002 Increased profit margins	S07 Agropastoralists	3
002 Increased profit margins	S08 Informal traders	4
002 Increased profit margins	S09 Formal traders	3
002 Increased profit margins	S10 Informal small processors	5
002 Increased profit margins	S11 Formal small processors	3
002 Increased profit margins	S12 Large processors_exporters	1
002 Increased profit margins	S13 Low-income rural consumers	0
002 Increased profit margins	S14 Low-income urban consumers	0
002 Increased profit margins	S15 High-income consumers	0
003 Increased security of livestock assets	S01 Smallholder intensive	5
003 Increased security of livestock assets	S02 Smallholder extensive	3

To access the data entry page for the impacts of outcomes on stakeholder groups

- ✓ Select the tab marked **Impacts of outcomes on stakeholder groups**

The data entry grid may be grouped by outcome or stakeholder group to improve clarity and reduce the chances of errors during data entry.

Displaying Outcome Descriptions in the List

To view the list with the descriptions of each outcome displayed:

- ✓ Make sure that the **Show outcome descriptions in list** checkbox is checked.

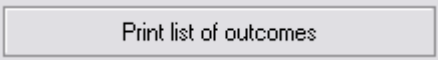
To hide the descriptions in the list outcomes:

- ✓ Uncheck the **Show outcome descriptions in list** checkbox.


Printing the List of Outcomes

The list of outcomes can be printed directly from the outcomes data page.

To display the print preview dialog that allows the selection of printers and manipulation of the appearance of the print out:

- ✓ Make sure that the list of outcomes or an outcome description is displayed
- ✓ Press the  button on the top right-hand side of the page.

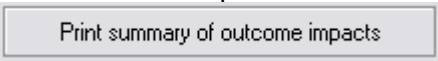
To print to the currently selected printer from the print preview dialog:

- ✓ Press the  button on the print preview dialog.


Printing the List of Outcome Impacts

The list of impacts of outcomes on stakeholder groups can be printed directly from the outcomes data page.

To display the print preview dialog that allows the selection of printers and manipulation of the appearance of the print out:

- ✓ Make sure that the list of impacts of outcomes on stakeholder groups is displayed
- ✓ Press the  button on the top right-hand side of the page.

To print to the currently selected printer from the print preview dialog:

- ✓ Press the  button on the print preview dialog.

Constraints Data

The data required to describe the constraints in the model may be viewed and edited on the Constraints data page.

To access this page:



- ✓ Press the button marked "Constraints" under the "Current Model Data" heading of the side bar.

The data required to define each stakeholder group consist of:

- A descriptive name for the constraint
- An optional description of the characteristics of the constraint that may be accessed via the tab marked Edit description of current outcome
- An assessment of the level of impact (on a scale of -5 to +5) that each constraint can be expected to have on each of the outcomes in the model.
- An assessment of the relevance (on a scale of 0 to 10) that each constraint has to each of the stakeholder groups in the model.

Impacts of Constraints on Outcomes

Constraints		
List of constraints Edit description of current constraint Impacts of constraints on outcomes Relevance of constraints to stakeholder groups		<input type="checkbox"/> Show constraint descriptions in list <input type="button" value="Print summary of constraint impacts"/>
Drag a column header here to group by that column		
Constraint	Outcome	Impact (-5 to +5)
C01 Lack of knowledge and skills	001 Increased production_sales of dairy products	4
C01 Lack of knowledge and skills	002 Increased profit margins	3
C01 Lack of knowledge and skills	003 Increased security of livestock assets	2
C01 Lack of knowledge and skills	004 Improved nutritional status	2
C01 Lack of knowledge and skills	005 Increased on and off-farm employment oppotun	2
C01 Lack of knowledge and skills	006 Reduced environmental degradation	2
C02 Poor access to land	001 Increased production_sales of dairy products	4
C02 Poor access to land	002 Increased profit margins	0
C02 Poor access to land	003 Increased security of livestock assets	0
C02 Poor access to land	004 Improved nutritional status	0
C02 Poor access to land	005 Increased on and off-farm employment oppotun	0
C02 Poor access to land	006 Reduced environmental degradation	2
C03 Poor access to water	001 Increased production_sales of dairy products	4
C03 Poor access to water	002 Increased profit margins	2
C03 Poor access to water	003 Increased security of livestock assets	2
C03 Poor access to water	004 Improved nutritional status	0
C03 Poor access to water	005 Increased on and off-farm employment oppotun	0
C03 Poor access to water	006 Reduced environmental degradation	0
C04 High costs and low availability of inputs	001 Increased production_sales of dairy products	5
C04 High costs and low availability of inputs	002 Increased profit margins	5
C04 High costs and low availability of inputs	003 Increased security of livestock assets	2
C04 High costs and low availability of inputs	004 Improved nutritional status	0
C04 High costs and low availability of inputs	005 Increased on and off-farm employment oppotun	0
C04 High costs and low availability of inputs	006 Reduced environmental degradation	-1
C05 Low yielding cattle breeds	001 Increased production_sales of dairy products	2
C05 Low yielding cattle breeds	002 Increased profit margins	2
C05 Low yielding cattle breeds	003 Increased security of livestock assets	-2
C05 Low yielding cattle breeds	004 Improved nutritional status	-1
C05 Low yielding cattle breeds	005 Increased on and off-farm employment oppotun	1
C05 Low yielding cattle breeds	006 Reduced environmental degradation	-1
C06 Insufficient labour force	001 Increased production_sales of dairy products	1
C06 Insufficient labour force	002 Increased profit margins	1

To access the data entry page for the impacts of constraints on outcomes

- ✓ Select the tab marked Impacts of constraints on outcomes

The data entry grid may be grouped by constraint or outcome to improve clarity and reduce the chances of errors during data entry.

Relevance of Constraints to Stakeholder Groups

Constraints Show constraint descriptions in list Print summary of constraint relevancies

List of constraints | Edit description of current constraint | Impacts of constraints on outcomes | **Relevance of constraints to stakeholder groups**

Drag a column header here to group by that column

Constraint	Stakeholder group	Relevance (0 - 10)
C01 Lack of knowledge and skills	S01 Smallholder intensive	8
C02 Poor access to land	S01 Smallholder intensive	3
C03 Poor access to water	S01 Smallholder intensive	2
C04 High costs and low availability of inputs	S01 Smallholder intensive	6
C05 Low yielding cattle breeds	S01 Smallholder intensive	3
C06 Insufficient labour force	S01 Smallholder intensive	3
C07 Cattle theft	S01 Smallholder intensive	1
C08 Poor access to credit and capital	S01 Smallholder intensive	4
C09 Poor utilities (water and electricity)	S01 Smallholder intensive	2
C10 Poor dairy infrastructure	S01 Smallholder intensive	8
C11 Seasonal variation in milk production / price	S01 Smallholder intensive	4
C12 Lack of effective demand	S01 Smallholder intensive	4
C13 Poor access to markets - physical	S01 Smallholder intensive	6
C14 Poor access to markets - institutional	S01 Smallholder intensive	6
C15 Poor quality of milk and dairy products	S01 Smallholder intensive	5
C16 Poor animal nutrition	S01 Smallholder intensive	5
C17 Poor animal health	S01 Smallholder intensive	4
C01 Lack of knowledge and skills	S02 Smallholder extensive	6
C02 Poor access to land	S02 Smallholder extensive	5
C03 Poor access to water	S02 Smallholder extensive	3
C04 High costs and low availability of inputs	S02 Smallholder extensive	4
C05 Low yielding cattle breeds	S02 Smallholder extensive	2
C06 Insufficient labour force	S02 Smallholder extensive	2
C07 Cattle theft	S02 Smallholder extensive	2
C08 Poor access to credit and capital	S02 Smallholder extensive	3
C09 Poor utilities (water and electricity)	S02 Smallholder extensive	0
C10 Poor dairy infrastructure	S02 Smallholder extensive	6
C11 Seasonal variation in milk production / price	S02 Smallholder extensive	4
C12 Lack of effective demand	S02 Smallholder extensive	6
C13 Poor access to markets - physical	S02 Smallholder extensive	7
C14 Poor access to markets - institutional	S02 Smallholder extensive	6
C15 Poor quality of milk and dairy products	S02 Smallholder extensive	5

To access the data entry page for the relevance of constraints to stakeholder groups

- ✓ Select the tab marked **Relevance of constraints to stakeholder groups**

The data entry grid may be grouped by constraint or stakeholder group to improve clarity and reduce the chances of errors during data entry.

Displaying Constraint Descriptions in the List

To view the list with the descriptions of each constraint displayed:

- ✓ Make sure that the **Show constraint descriptions in list** checkbox is checked.

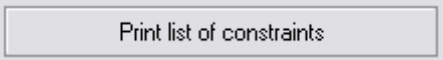
To hide the descriptions in the list outcomes:

- ✓ Uncheck the **Show constraint descriptions in list** checkbox.


Printing the List of Constraints

The list of constraints can be printed directly from the constraints data page.

To display the print preview dialog that allows the selection of printers and manipulation of the appearance of the print out:

- ✓ Make sure that the list of constraints or a constraint description is displayed
- ✓ Press the  button on the top right-hand side of the page.

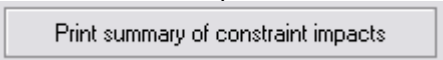
To print to the currently selected printer from the print preview dialog:

- ✓ Press the  button on the print preview dialog.


Printing the List of Constraint Impacts

The list of impacts of constraints on outcomes can be printed directly from the constraints data page.

To display the print preview dialog that allows the selection of printers and manipulation of the appearance of the print out:

- ✓ Make sure that the list of impacts of constraints on outcomes is displayed
- ✓ Press the  button on the top right-hand side of the page.


To print to the currently selected printer from the print preview dialog:

- ✓ Press the  button on the print preview dialog.


Printing the List of Constraint Relevances

The list of relevances of constraints to stakeholder groups can be printed directly from the constraints data page.

To display the print preview dialog that allows the selection of printers and manipulation of the appearance of the print out:

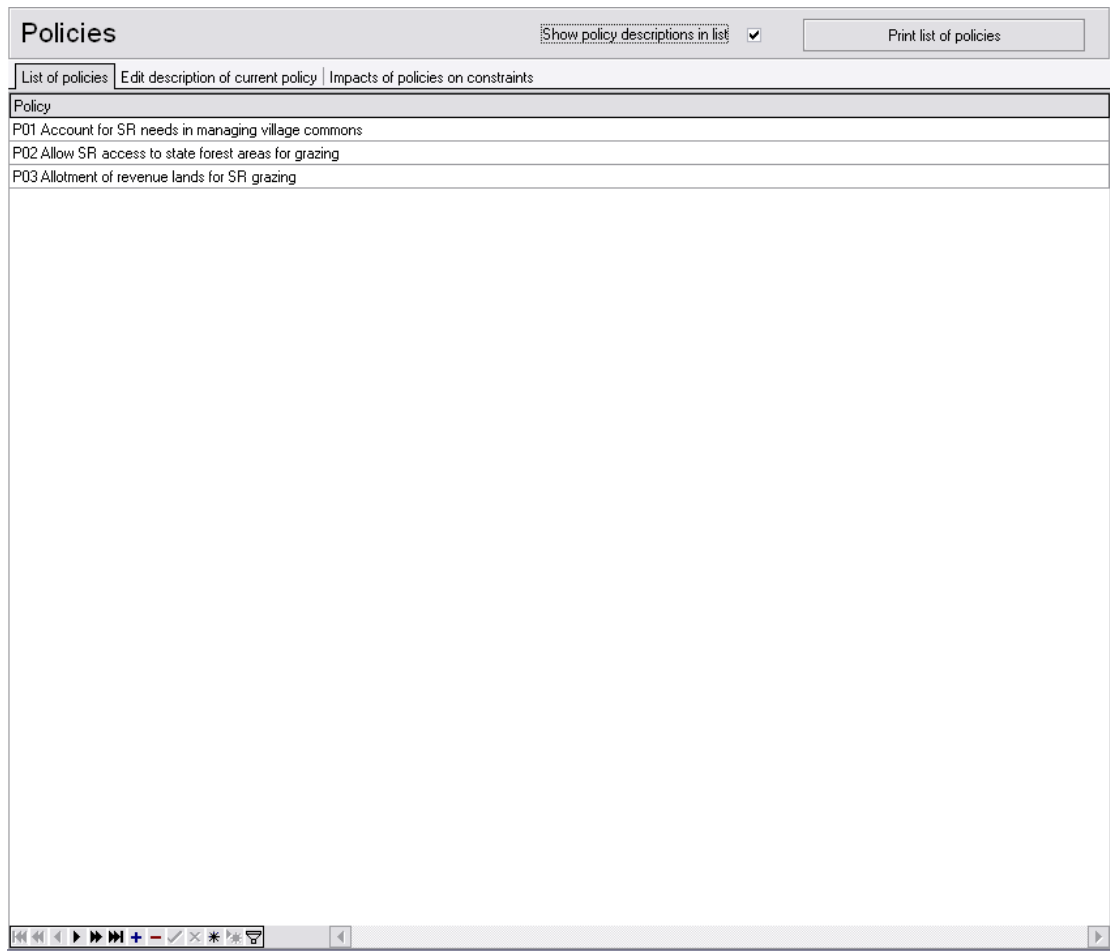
- ✓ Make sure that the list of relevances of constraints to stakeholder groups is displayed
- ✓ Press the  button on the top right-hand side of the page.

To print to the currently selected printer from the print preview dialog:

- ✓ Press the  button on the print preview dialog.

Policy Data

The data required to describe the policies in the model may be viewed and edited on the Policies data page.



To access this page:



- ✓ Press the button marked "Policies" under the "Current Model Data" heading of the side bar.

The data required to define each policy consist of:

- A descriptive name for the policy
- An optional description of the characteristics of the policy that may be accessed via the tab marked Edit description of current policy
- An assessment of the level of impact (on a scale of -5 to +5) that each constraint can be expected to have on each of the outcomes in the model.

Impacts of Policies on Constraints

Policies Show policy descriptions in list Print summary of policy impacts

List of policies | Edit description of current policy | **Impacts of policies on constraints**

Drag a column header here to group by that column

Policy	Constraint	Impact (-5 to +5)
P01 Promote genetic improvement	C01 Lack of knowledge and skills	1
P01 Promote genetic improvement	C02 Poor access to land	0
P01 Promote genetic improvement	C03 Poor access to water	0
P01 Promote genetic improvement	C04 High costs and low availability of inputs	-1
P01 Promote genetic improvement	C05 Low yielding cattle breeds	5
P01 Promote genetic improvement	C06 Insufficient labour force	-1
P01 Promote genetic improvement	C07 Cattle theft	-1
P01 Promote genetic improvement	C08 Poor access to credit and capital	0
P01 Promote genetic improvement	C09 Poor utilities (water and electricity)	0
P01 Promote genetic improvement	C10 Poor dairy infrastructure	0
P01 Promote genetic improvement	C11 Seasonal variation in milk production / price	0
P01 Promote genetic improvement	C12 Lack of effective demand	0
P01 Promote genetic improvement	C13 Poor access to markets - physical	0
P01 Promote genetic improvement	C14 Poor access to markets - institutional	0
P01 Promote genetic improvement	C15 Poor quality of milk and dairy products	0
P01 Promote genetic improvement	C16 Poor animal nutrition	0
P01 Promote genetic improvement	C17 Poor animal health	-2
P02 Strengthen vet service delivery countrywide	C01 Lack of knowledge and skills	1
P02 Strengthen vet service delivery countrywide	C02 Poor access to land	0
P02 Strengthen vet service delivery countrywide	C03 Poor access to water	0
P02 Strengthen vet service delivery countrywide	C04 High costs and low availability of inputs	1
P02 Strengthen vet service delivery countrywide	C05 Low yielding cattle breeds	2
P02 Strengthen vet service delivery countrywide	C06 Insufficient labour force	0
P02 Strengthen vet service delivery countrywide	C07 Cattle theft	0
P02 Strengthen vet service delivery countrywide	C08 Poor access to credit and capital	0
P02 Strengthen vet service delivery countrywide	C09 Poor utilities (water and electricity)	0
P02 Strengthen vet service delivery countrywide	C10 Poor dairy infrastructure	2
P02 Strengthen vet service delivery countrywide	C11 Seasonal variation in milk production / price	0
P02 Strengthen vet service delivery countrywide	C12 Lack of effective demand	0
P02 Strengthen vet service delivery countrywide	C13 Poor access to markets - physical	0
P02 Strengthen vet service delivery countrywide	C14 Poor access to markets - institutional	2
P02 Strengthen vet service delivery countrywide	C15 Poor quality of milk and dairy products	0

To access the data entry page for the impacts of policies on constraints

- ✓ Select the tab marked **Impacts of policies on constraints**

The data entry grid may be grouped by policy or constraint to improve clarity and reduce the chances of errors during data entry.

Displaying Policy Descriptions in the List

To view the list with the descriptions of each policy displayed:

- ✓ Make sure that the **Show policy descriptions in list** checkbox is checked.

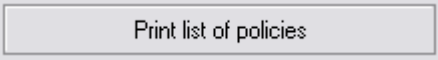
To hide the descriptions in the list policies:

- ✓ Uncheck the **Show policy descriptions in list** checkbox.


Printing the List of Policies

The list of policies can be printed directly from the policies data page.

To display the print preview dialog that allows the selection of printers and manipulation of the appearance of the print out:

- ✓ Make sure that the list of policies or a policy description is displayed
- ✓ Press the  button on the top right-hand side of the page.

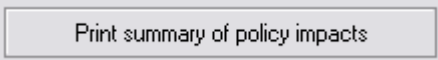
To print to the currently selected printer from the print preview dialog:

- ✓ Press the  button on the print preview dialog.


Printing the List of Policy Impacts

The list of impacts of policies on constraints can be printed directly from the policies data page.

To display the print preview dialog that allows the selection of printers and manipulation of the appearance of the print out:

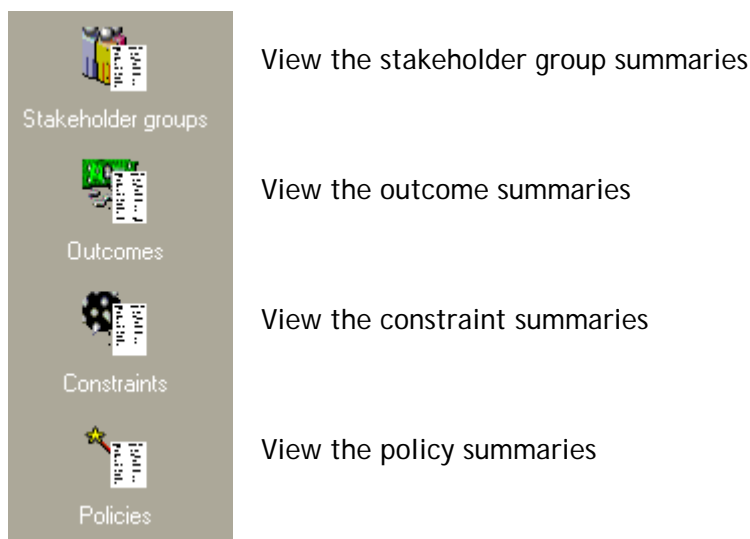
- ✓ Make sure that the list of impacts of policies on constraints is displayed
- ✓ Press the  button on the top right-hand side of the page.

To print to the currently selected printer from the print preview dialog:

- ✓ Press the  button on the print preview dialog.

Summarising Extrapolate Models

EXTRAPOLATE offers a number of graphical summaries of the data that may be used as a basis for discussion amongst stakeholders and for an initial narrowing of the policy options that may be available. Access the model summaries via the buttons under the Model Summaries section of the side bar.

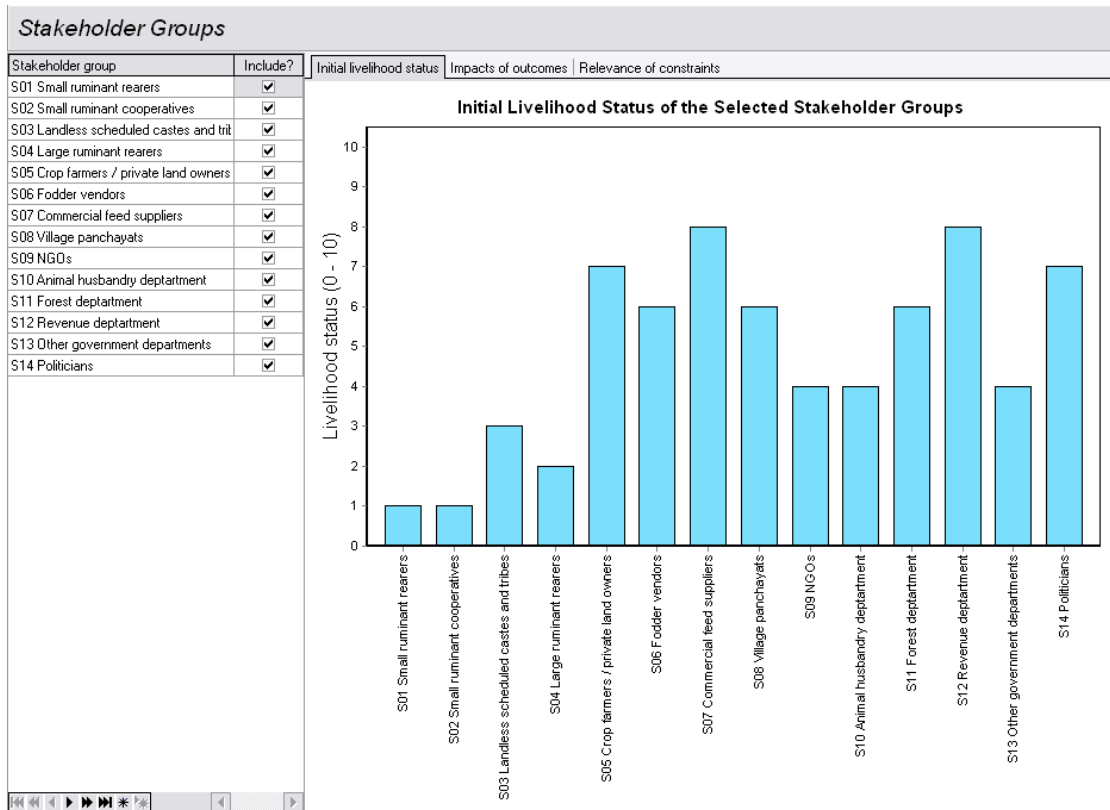


After you have selected the model that you wish to work with from the List of Models, to display the Model Summaries section of the side bar:

- ✓ Click on the  section heading.

Stakeholder Group Summaries

The stakeholder group summaries page displays information about the livelihood status of each stakeholder group and their relationship with the model outcomes and constraints.

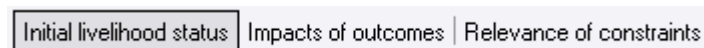


To display the stakeholder group summary page:



- ✓ Press the button marked "Stakeholder groups" under the "Model Summaries" heading of the side bar.

To switch amongst the stakeholder summaries:



- ✓ Select a tab from the set of tabs located above the summary graph.

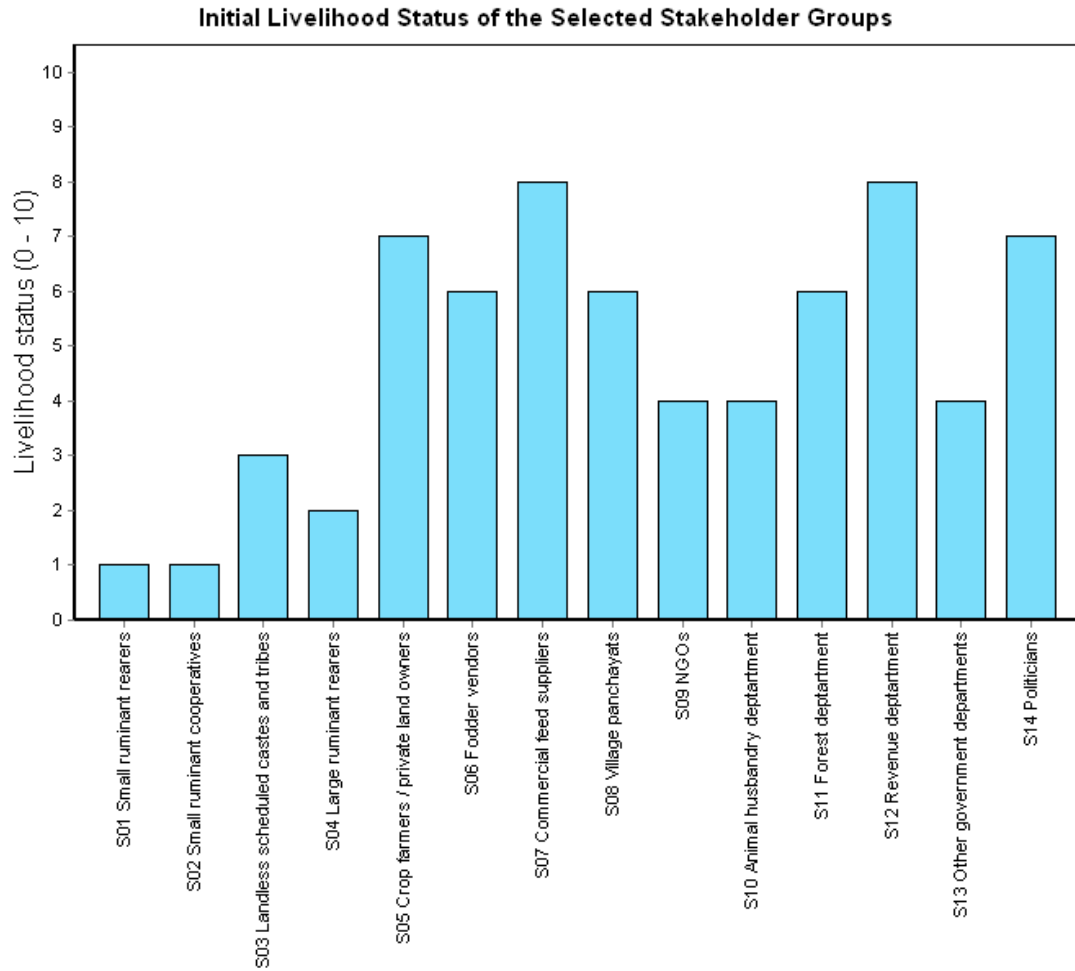
Viewing Data for a Selection of Stakeholder Groups

Stakeholder group	Include?
S01 Small ruminant rearers	<input checked="" type="checkbox"/>
S02 Small ruminant cooperatives	<input checked="" type="checkbox"/>
S03 Landless scheduled castes and trib	<input checked="" type="checkbox"/>
S04 Large ruminant rearers	<input checked="" type="checkbox"/>
S05 Crop farmers / private land owners	<input checked="" type="checkbox"/>
S06 Fodder vendors	<input checked="" type="checkbox"/>
S07 Commercial feed suppliers	<input checked="" type="checkbox"/>
S08 Village panchayats	<input checked="" type="checkbox"/>
S09 NGOs	<input checked="" type="checkbox"/>
S10 Animal husbandry department	<input checked="" type="checkbox"/>
S11 Forest department	<input checked="" type="checkbox"/>
S12 Revenue department	<input checked="" type="checkbox"/>
S13 Other government departments	<input checked="" type="checkbox"/>
S14 Politicians	<input checked="" type="checkbox"/>
	

Users may wish to view summaries that relate to only a subset of the stakeholder groups in the model. This can be achieved by checking or unchecking stakeholder groups in the filter list that is to the left of the summary graph.

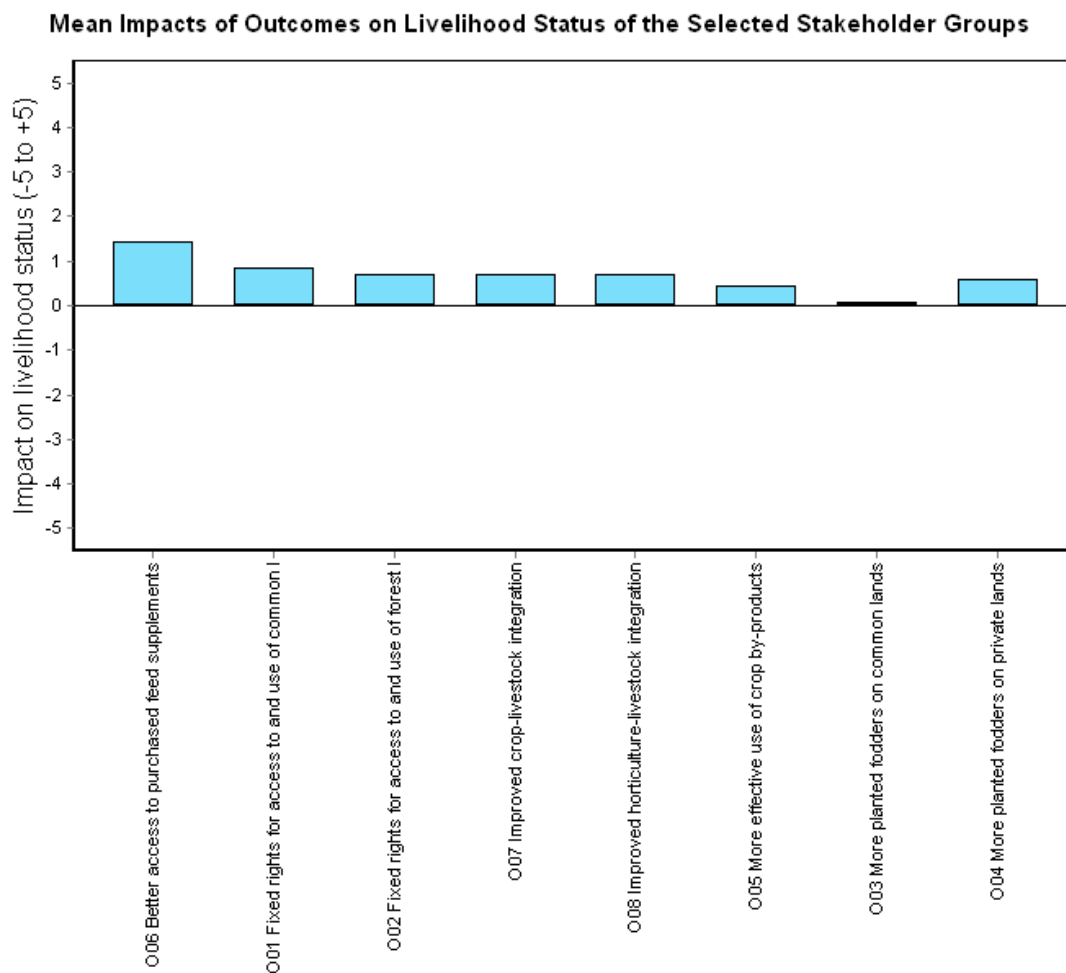
Initial Livelihood Status

This graph displays the livelihoods status of the selected stakeholder groups before the application of any policies



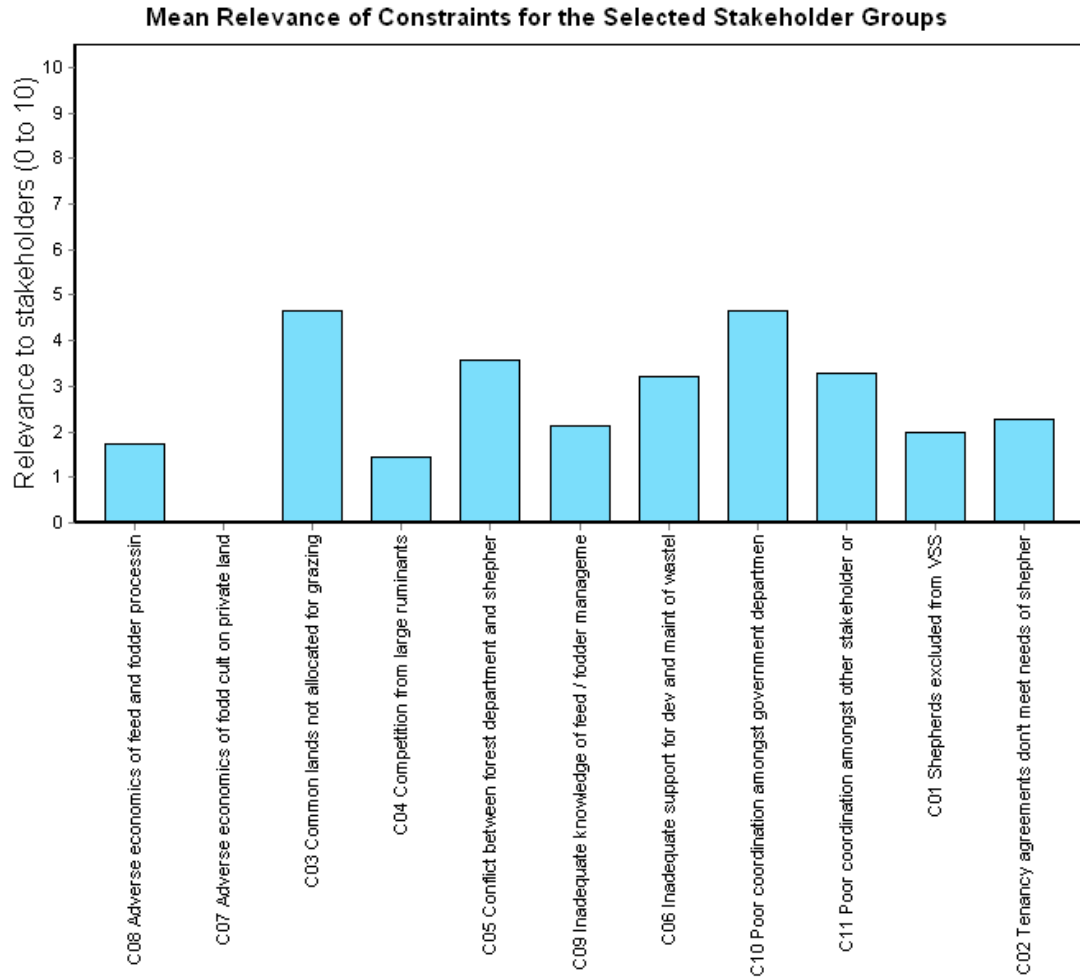
Impacts of Outcomes

This graph shows the aggregated impacts of the individual outcomes across the selected stakeholder groups.



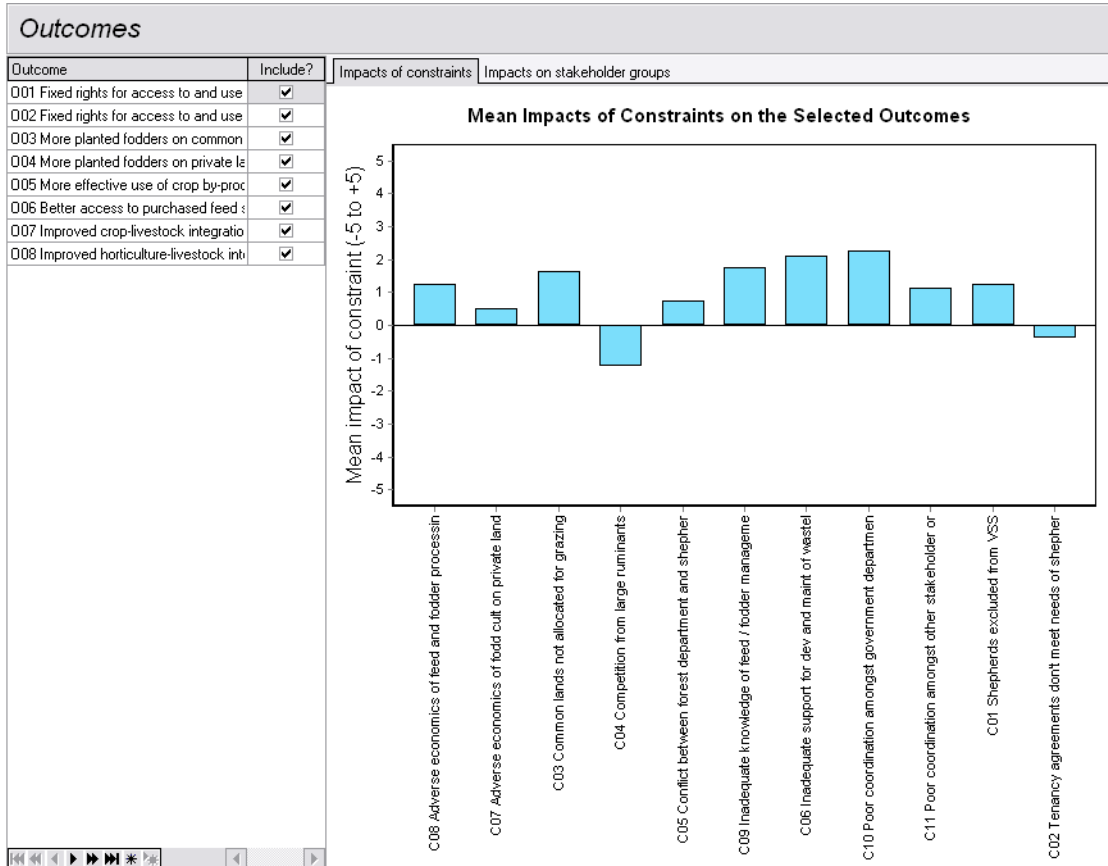
Relevance of Constraints

This graph shows the mean relevance of the constraints in the model to the selected stakeholder groups.

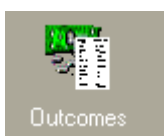


Outcome Summaries

The outcome summaries page displays information about the relationships of the outcomes with the model stakeholder groups and constraints.



To display the outcome summary page:



- ✓ Press the button marked "Outcomes" under the "Model Summaries" heading of the side bar.

To switch amongst the outcome summaries:



- ✓ Select a tab from the set of tabs located above the summary graph.

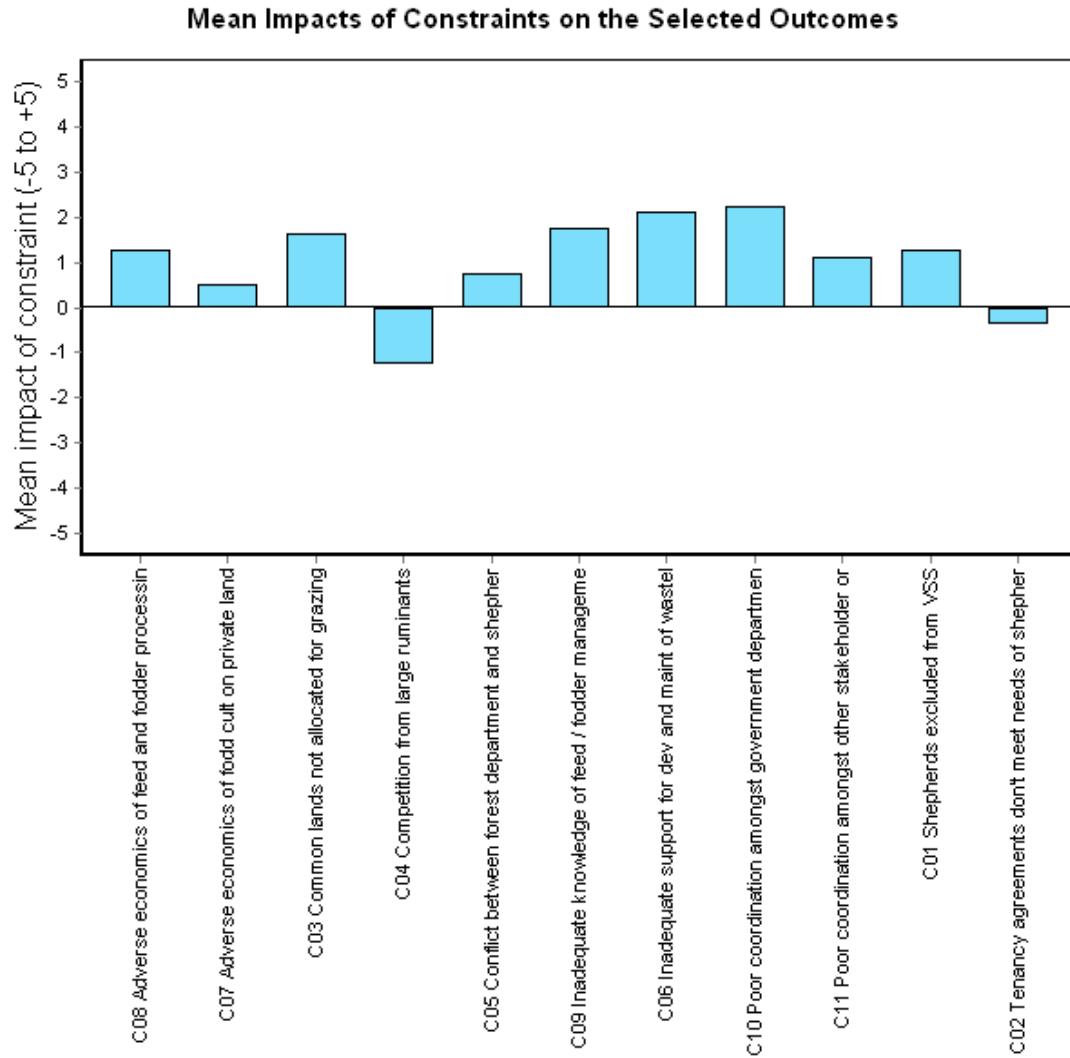
Viewing Data for a Selection of Outcomes

Outcome	Include?
001 Fixed rights for access to and use	<input checked="" type="checkbox"/>
002 Fixed rights for access to and use	<input checked="" type="checkbox"/>
003 More planted fodders on common	<input checked="" type="checkbox"/>
004 More planted fodders on private la	<input checked="" type="checkbox"/>
005 More effective use of crop by-proc	<input checked="" type="checkbox"/>
006 Better access to purchased feed s	<input checked="" type="checkbox"/>
007 Improved crop-livestock integratio	<input checked="" type="checkbox"/>
008 Improved horticulture-livestock int	<input checked="" type="checkbox"/>
	
	

Users may wish to view summaries that relate to only a subset of the outcomes in the model. This can be achieved by checking or unchecking outcomes in the filter list that is to the left of the summary graph.

Impacts of Constraints

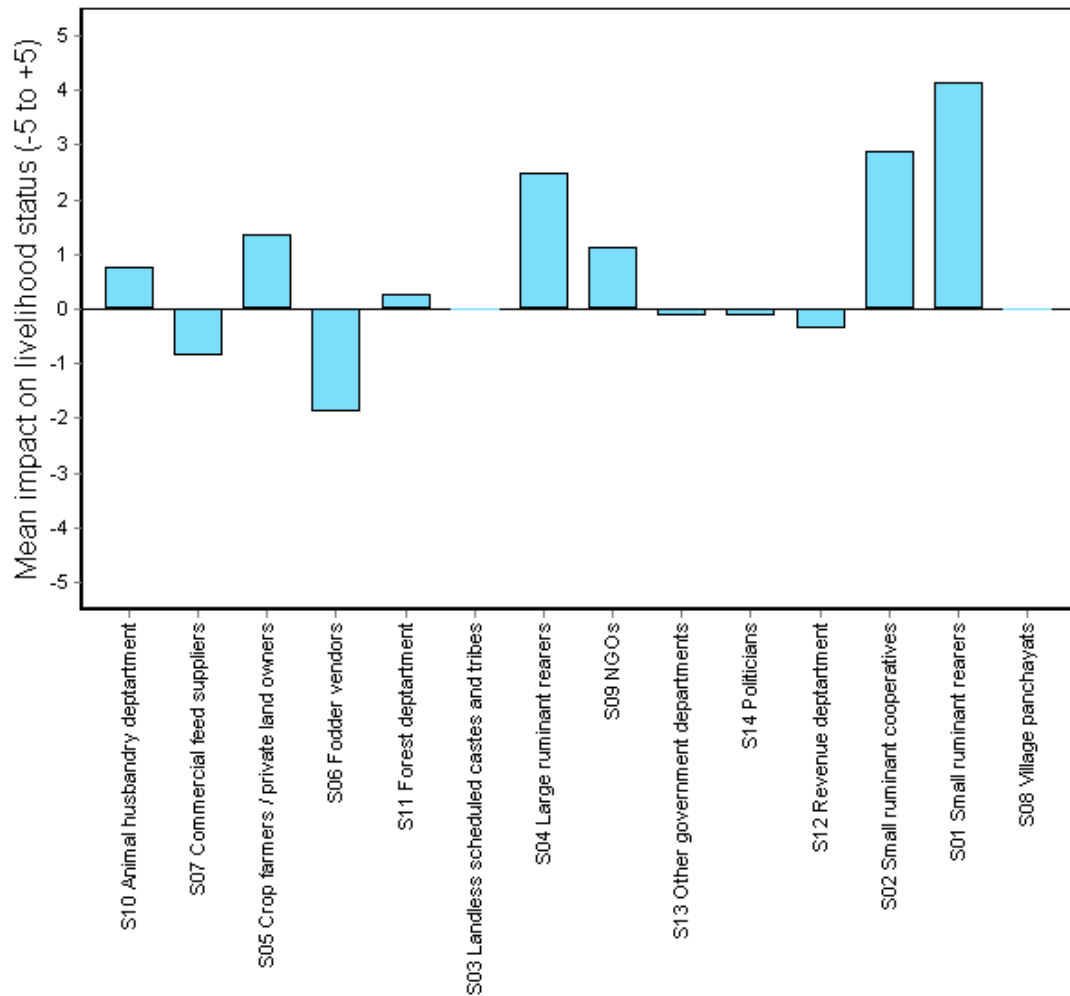
This graph shows the aggregated impacts of the constraints in the model on the selected outcomes.



Impacts on Stakeholder Groups

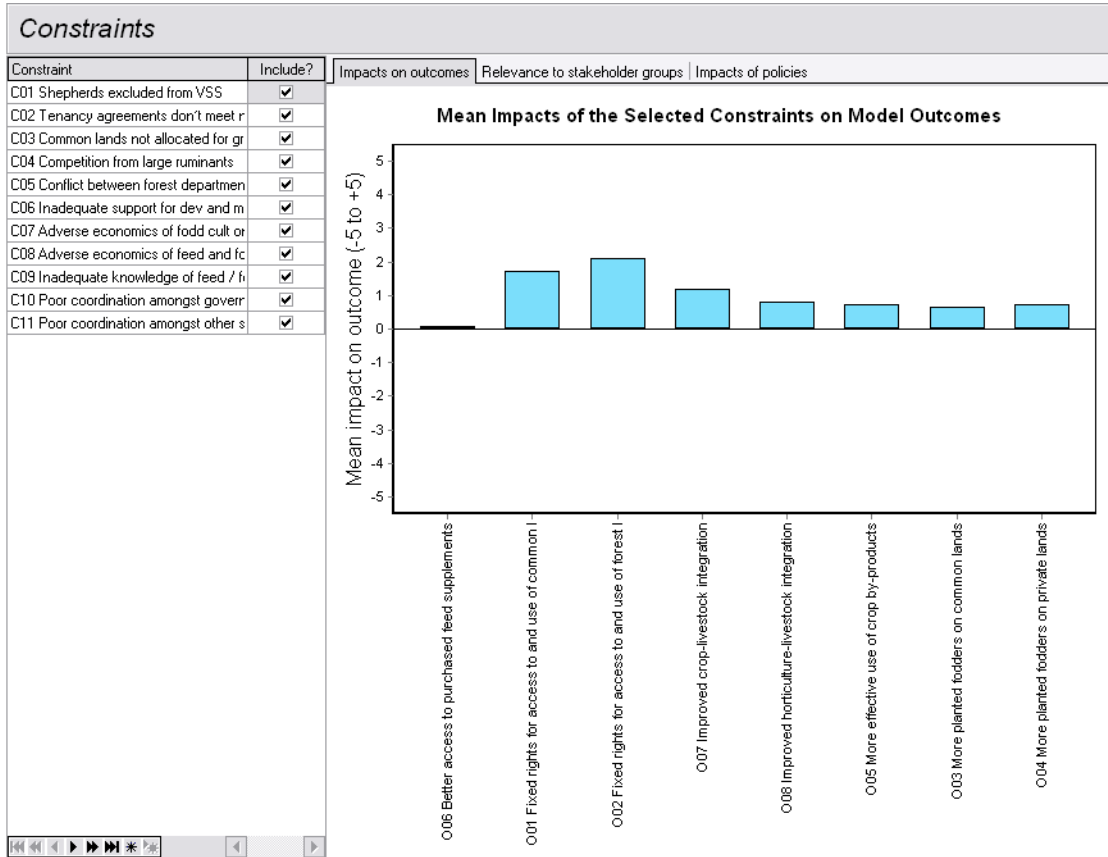
This graph shows the aggregated impacts of the selected outcomes on each of the model's stakeholder groups.

Mean Impacts of Selected Outcomes on Livelihood Status of the Stakeholder Groups



Constraint Summaries

The outcome summaries page displays information about the relationships of the constraints with the model outcomes stakeholder groups and policies.

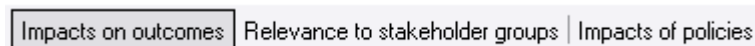


To display the constraint summary page:



- ✓ Press the button marked "Constraints" under the "Model Summaries" heading of the side bar.

To switch amongst the constraint summaries:



- ✓ Select a tab from the set of tabs located above the summary graph.

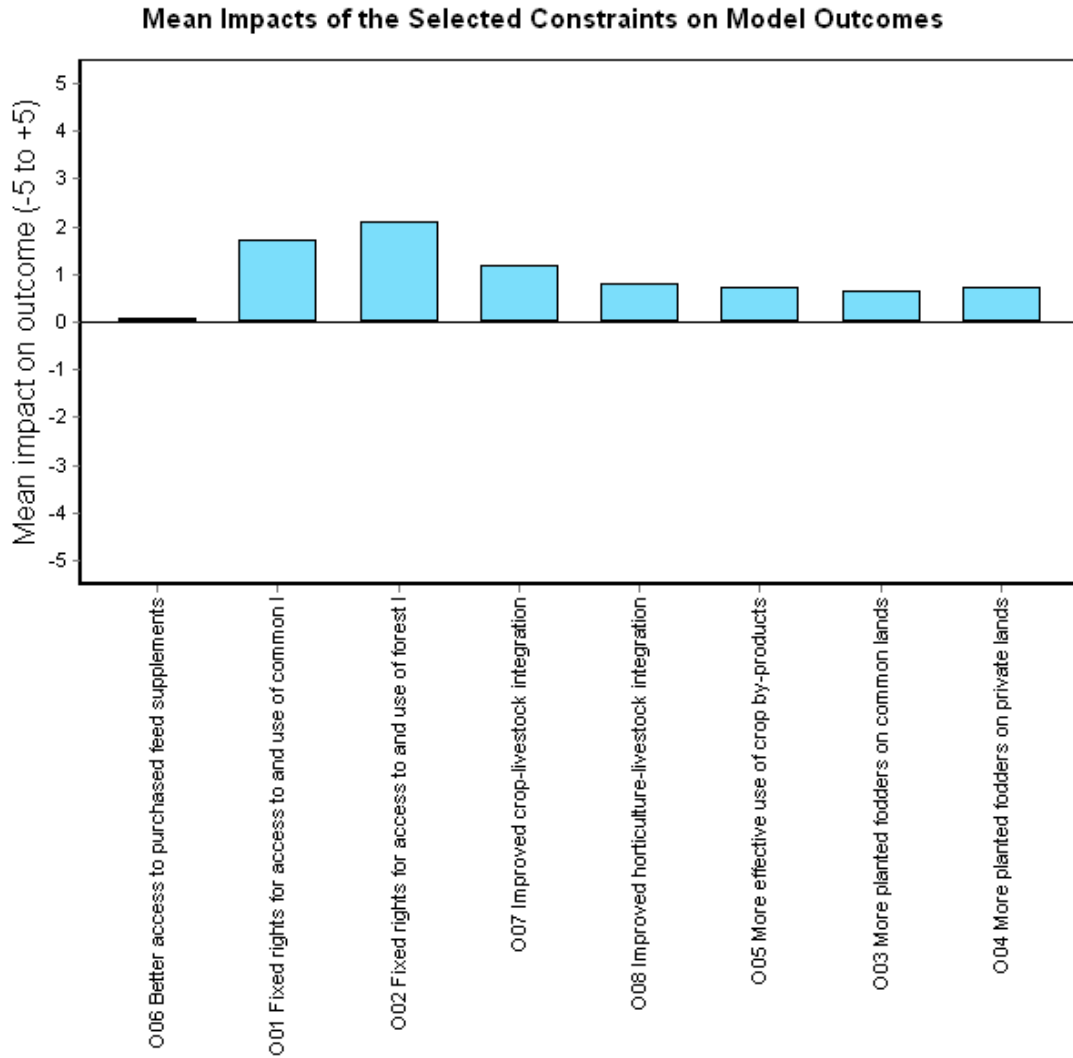
Viewing Data for a Selection of Constraints

Constraint	Include?
C01 Shepherds excluded from VSS	<input checked="" type="checkbox"/>
C02 Tenancy agreements don't meet r	<input checked="" type="checkbox"/>
C03 Common lands not allocated for gr	<input checked="" type="checkbox"/>
C04 Competition from large ruminants	<input checked="" type="checkbox"/>
C05 Conflict between forest departmen	<input checked="" type="checkbox"/>
C06 Inadequate support for dev and m	<input checked="" type="checkbox"/>
C07 Adverse economics of fodd cult or	<input checked="" type="checkbox"/>
C08 Adverse economics of feed and fc	<input checked="" type="checkbox"/>
C09 Inadequate knowledge of feed / fi	<input checked="" type="checkbox"/>
C10 Poor coordination amongst govern	<input checked="" type="checkbox"/>
C11 Poor coordination amongst other s	<input checked="" type="checkbox"/>
	

Users may wish to view summaries that relate to only a subset of the constraints in the model. This can be achieved by checking or unchecking constraints in the filter list that is to the left of the summary graph.

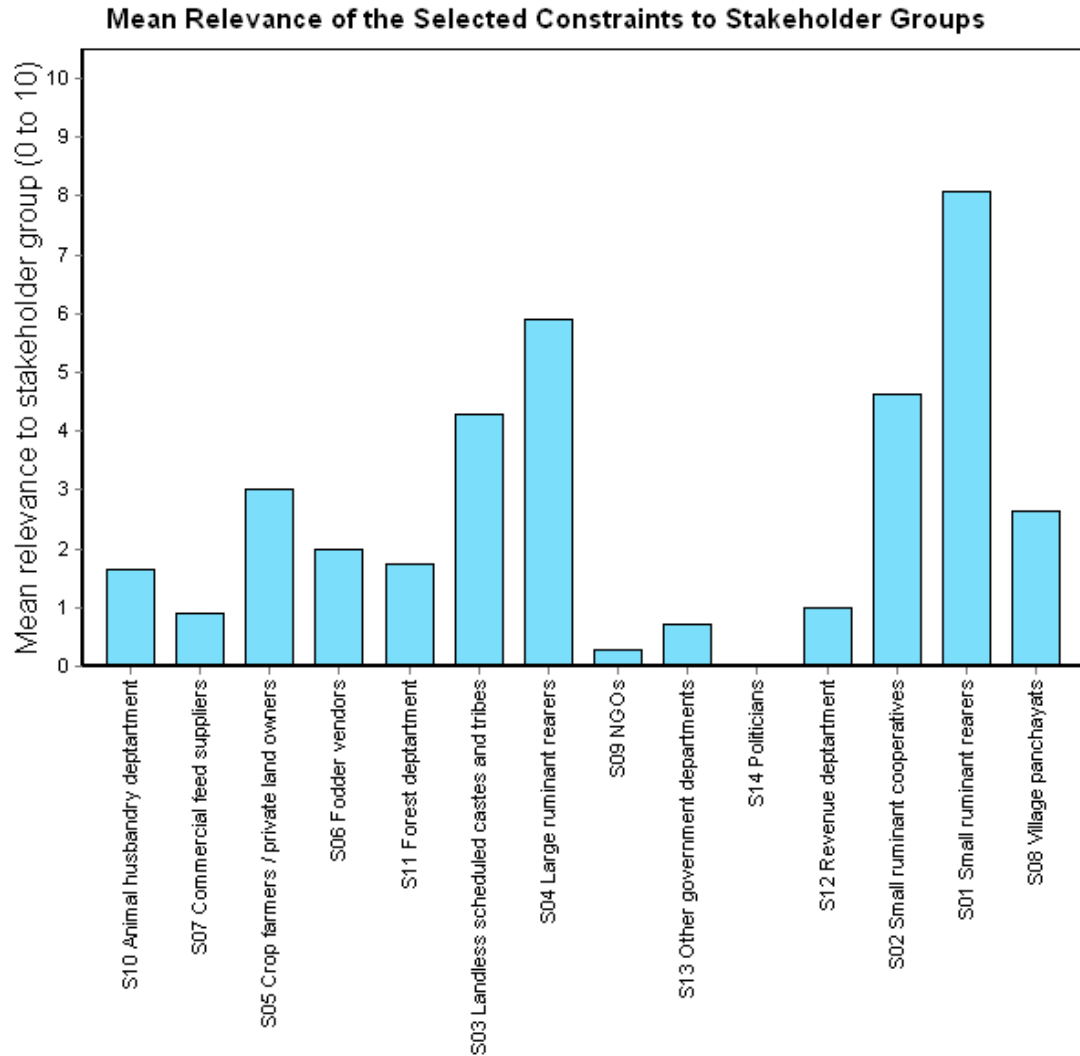
Impacts on Outcomes

This graph shows the aggregated impacts of the selected constraints on each of the model's outcomes.



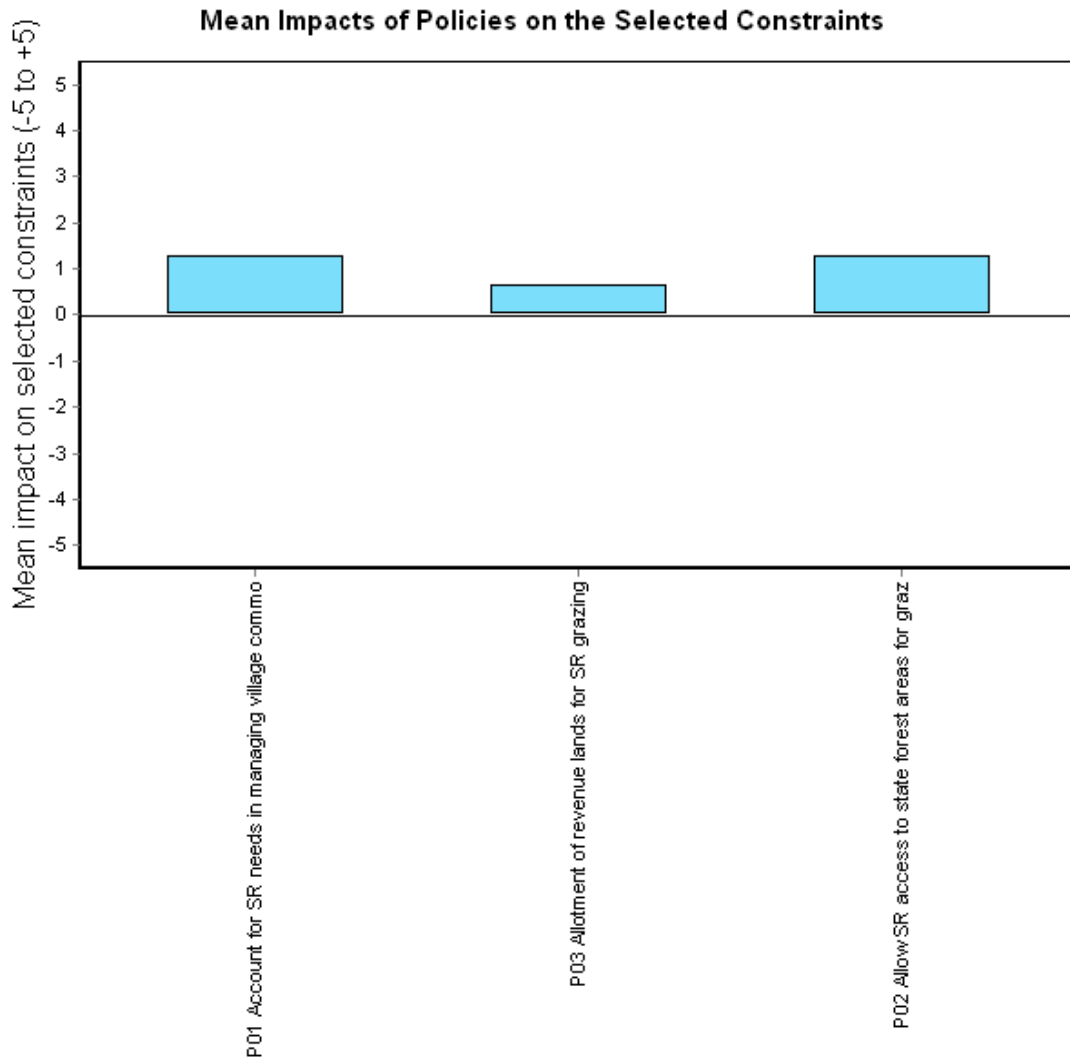
Relevance to Stakeholder Groups

This graph summarises the mean relevance of the selected constraints to each of the model's stakeholder groups.



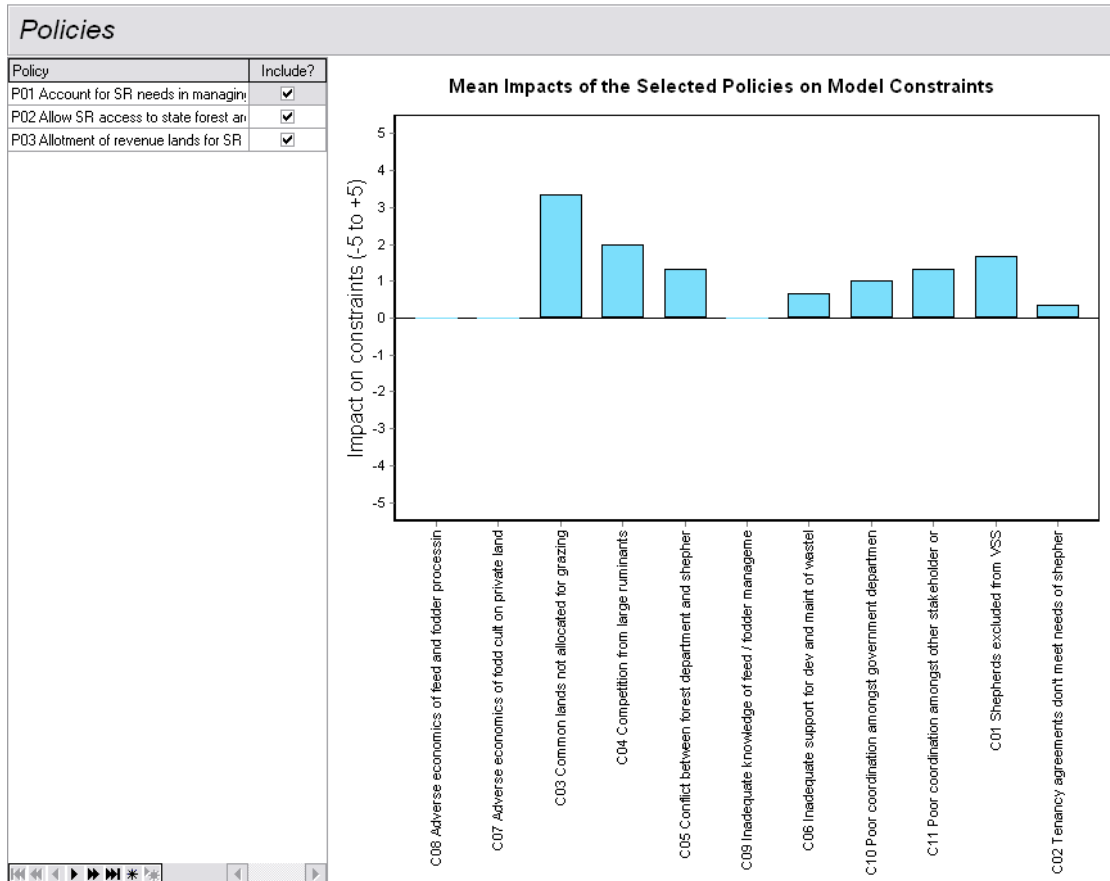
Impacts of Policies

This graph shows the aggregated impacts of the policies in the model on the selected constraints.



Policy Summaries

The policy summaries page displays information about the relationships of the policies with the model constraints.




To display the policy summary page:



- ✓ Press the button marked "Policies" under the "Model Summaries" heading of the side bar.

Viewing Data for a Selection of Policies

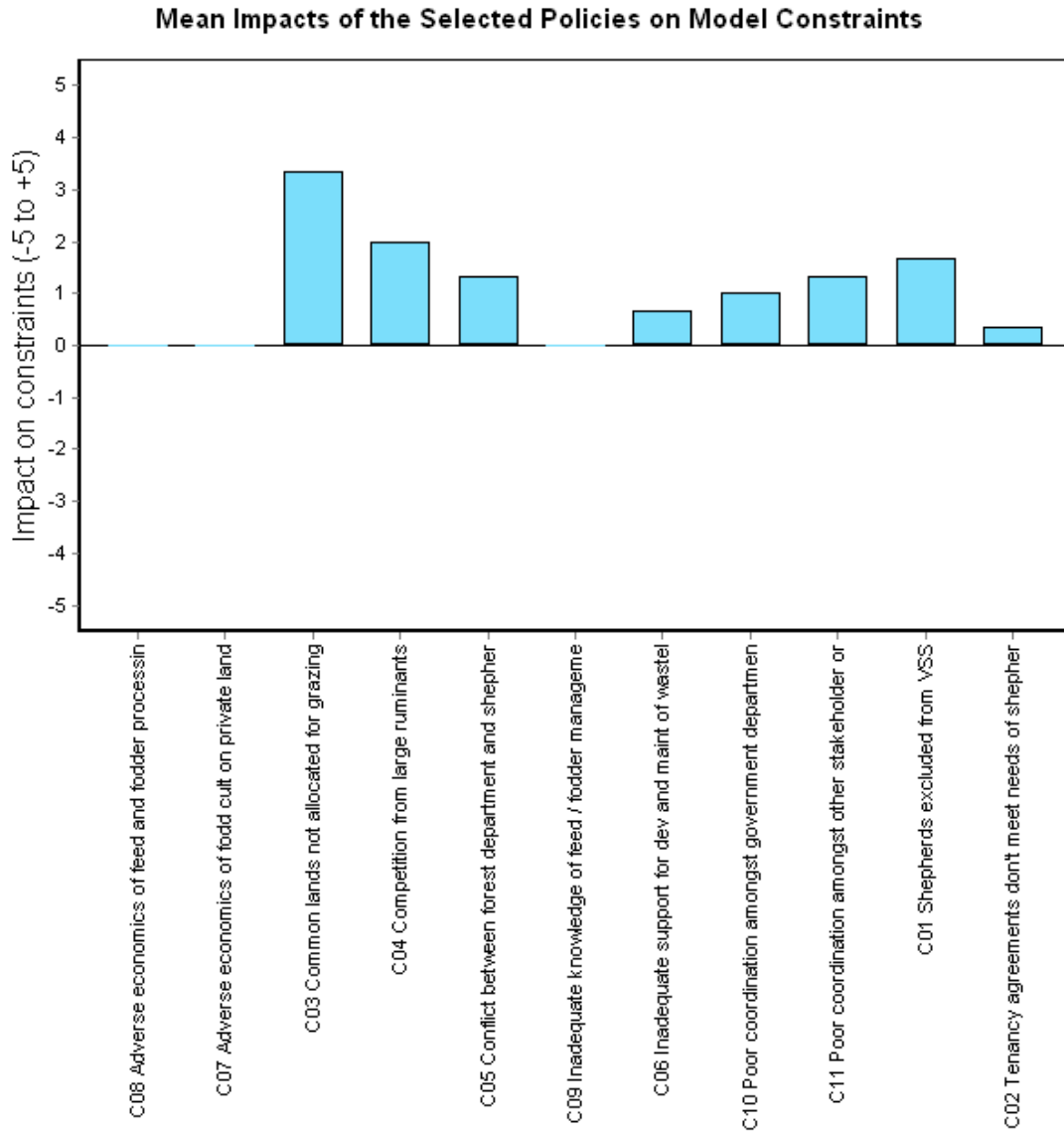
Policy	Include?
P01 Account for SR needs in managin	<input checked="" type="checkbox"/>
P02 Allow SR access to state forest an	<input checked="" type="checkbox"/>
P03 Allotment of revenue lands for SR	<input checked="" type="checkbox"/>



Users may wish to view summaries that relate to only a subset of the policies in the model. This can be achieved by checking or unchecking policies in the filter list that is to the left of the summary graph.

Impacts on Constraints

This graph shows the aggregated impacts of the selected policies on each of the constraints in the model.



Printing a Summary Graph

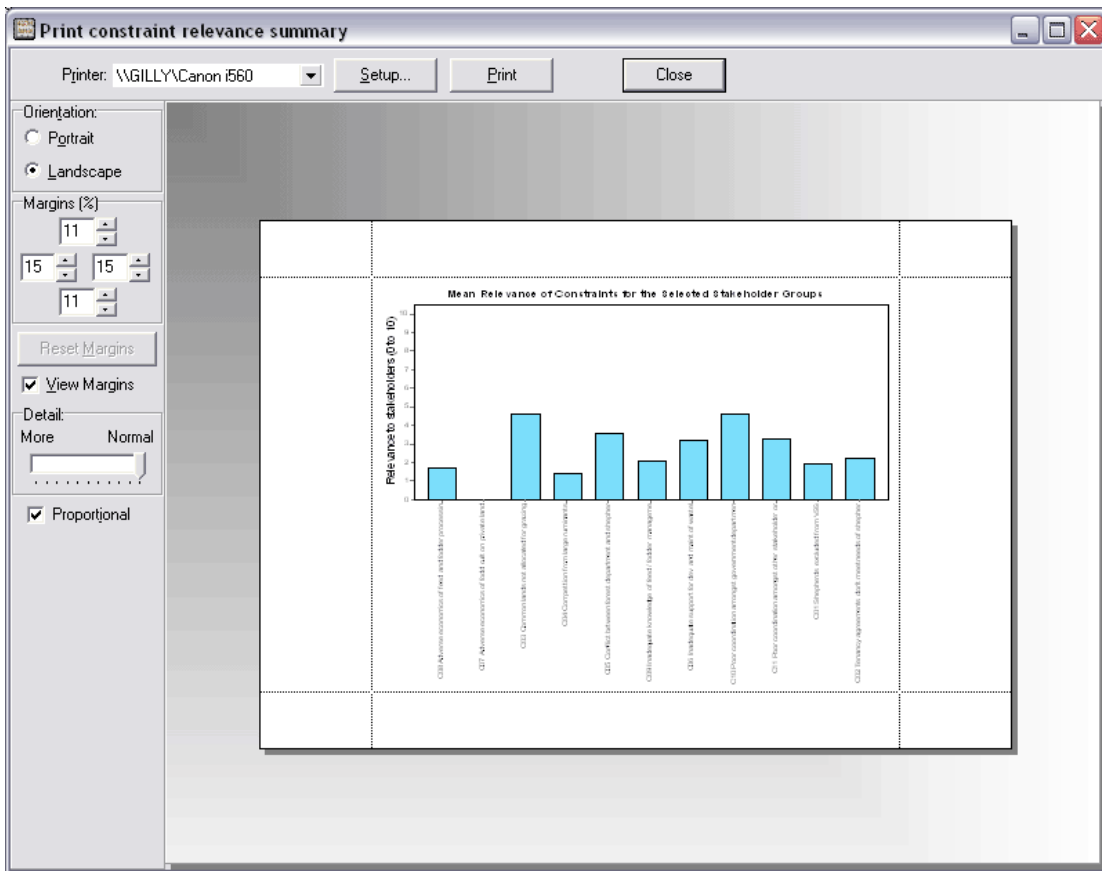
To print the summary graph that is currently visible:

- ✓ Press the print button on the top right-hand side of the interface


For example, to print the graph summarising the relevance of each constraint to the selected stakeholder groups:

- ✓ Press the button marked 

This will display a print preview dialog.



To print to the currently selected printer:

- ✓ press the button marked 

Policy Analysis with Extrapolate

Manipulation of the detailed data that are required to construct an effective EXTRAPOLATE model is accessed via the buttons under the Current Model Data section of the side bar.



View an analysis of the impacts of policy changes on the stakeholder groups in the model.

View an analysis of the impacts of policy changes on the effects of the outcomes in the model.

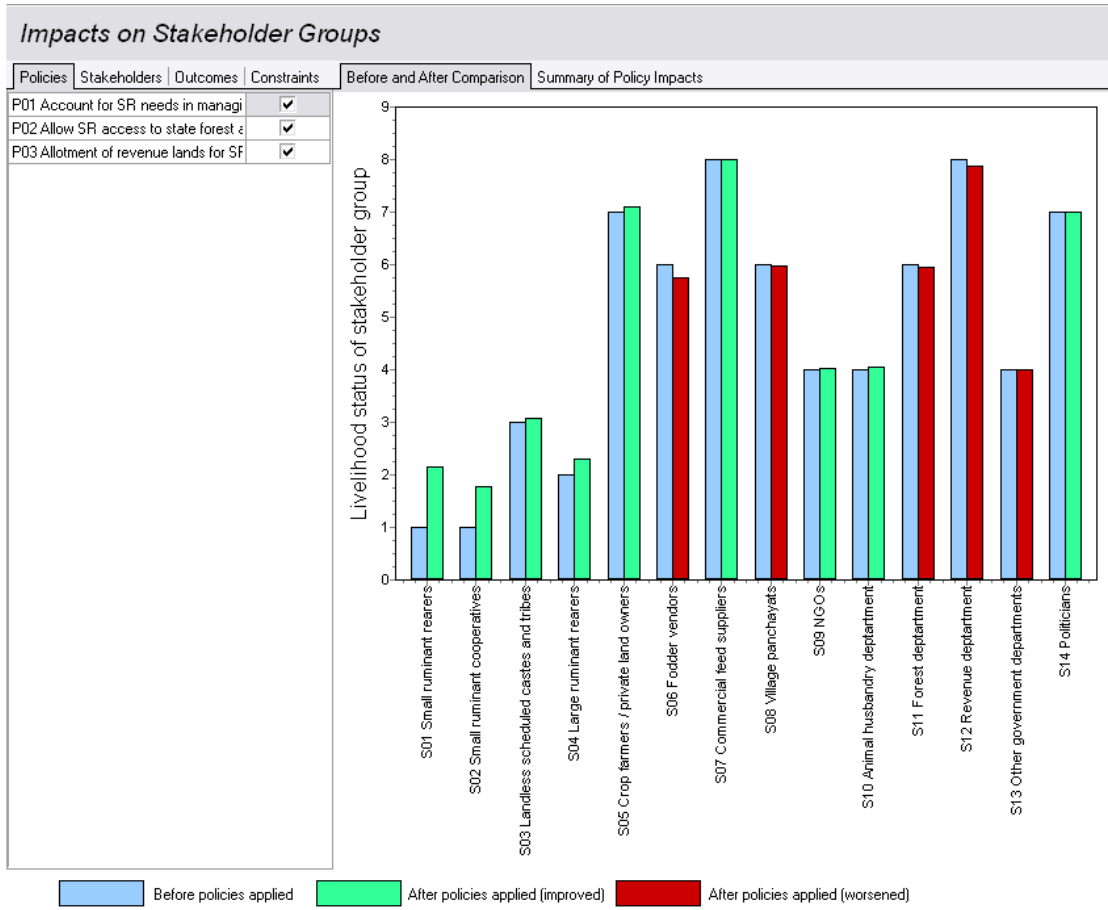
View an analysis of the impacts of policy changes on the effects of the constraints in the model.

After you have selected the model that you wish to work with from the List of Models, to display the Policy Analysis section of the side bar:

- ✓ Click on the  section heading.

Impacts on Stakeholder Groups

The stakeholder analysis page summarises, graphically, the impacts of applying a set of policy instruments on the livelihoods of selected stakeholder groups in the model.



To display the stakeholder analysis page:



- ✓ Press the button marked “Impacts on stakeholder groups” under the “Policy Analysis” heading of the side bar.

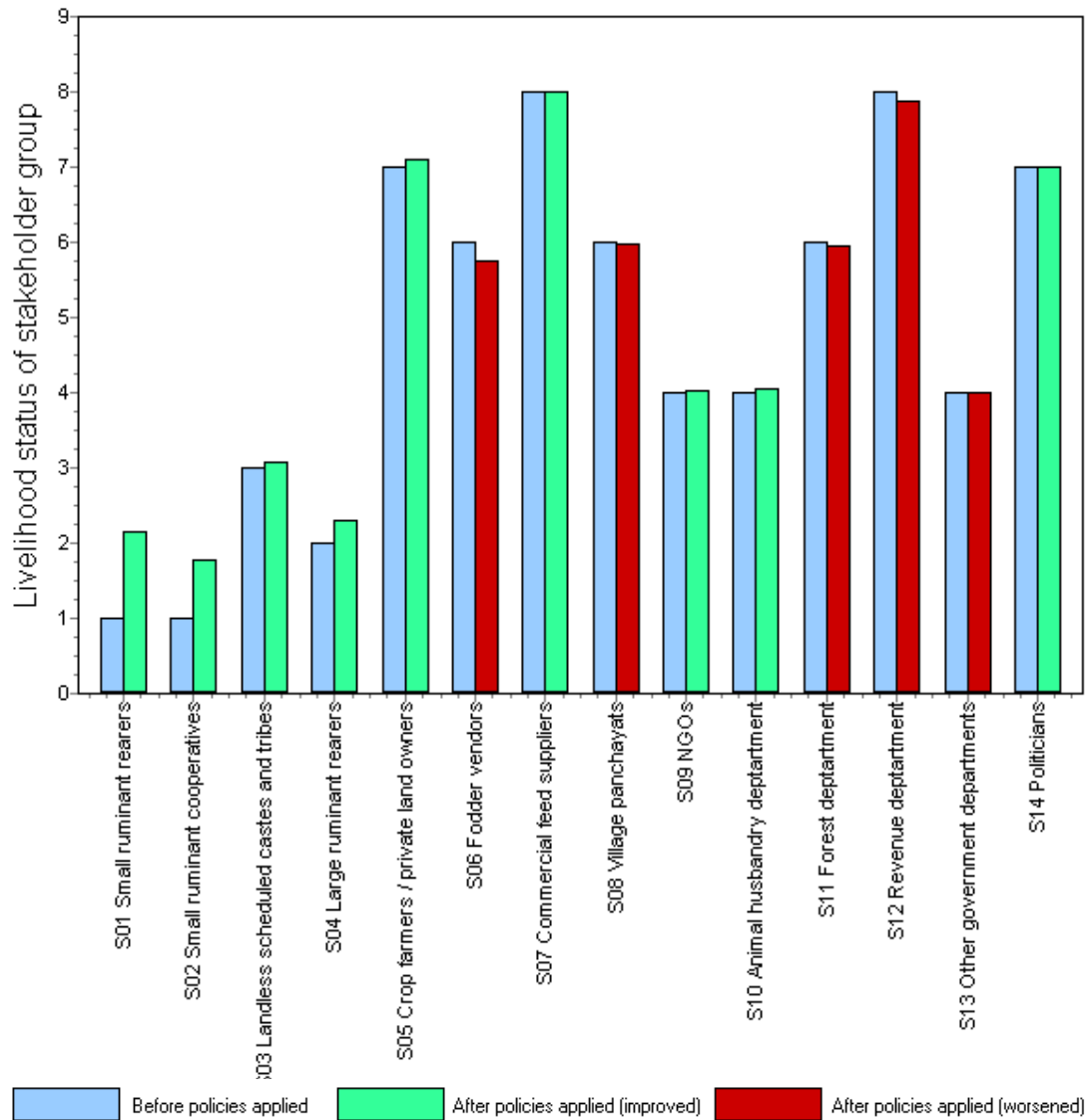
To switch amongst the outputs of the analysis:



- ✓ Select a tab from the set of tabs located above the summary graph.

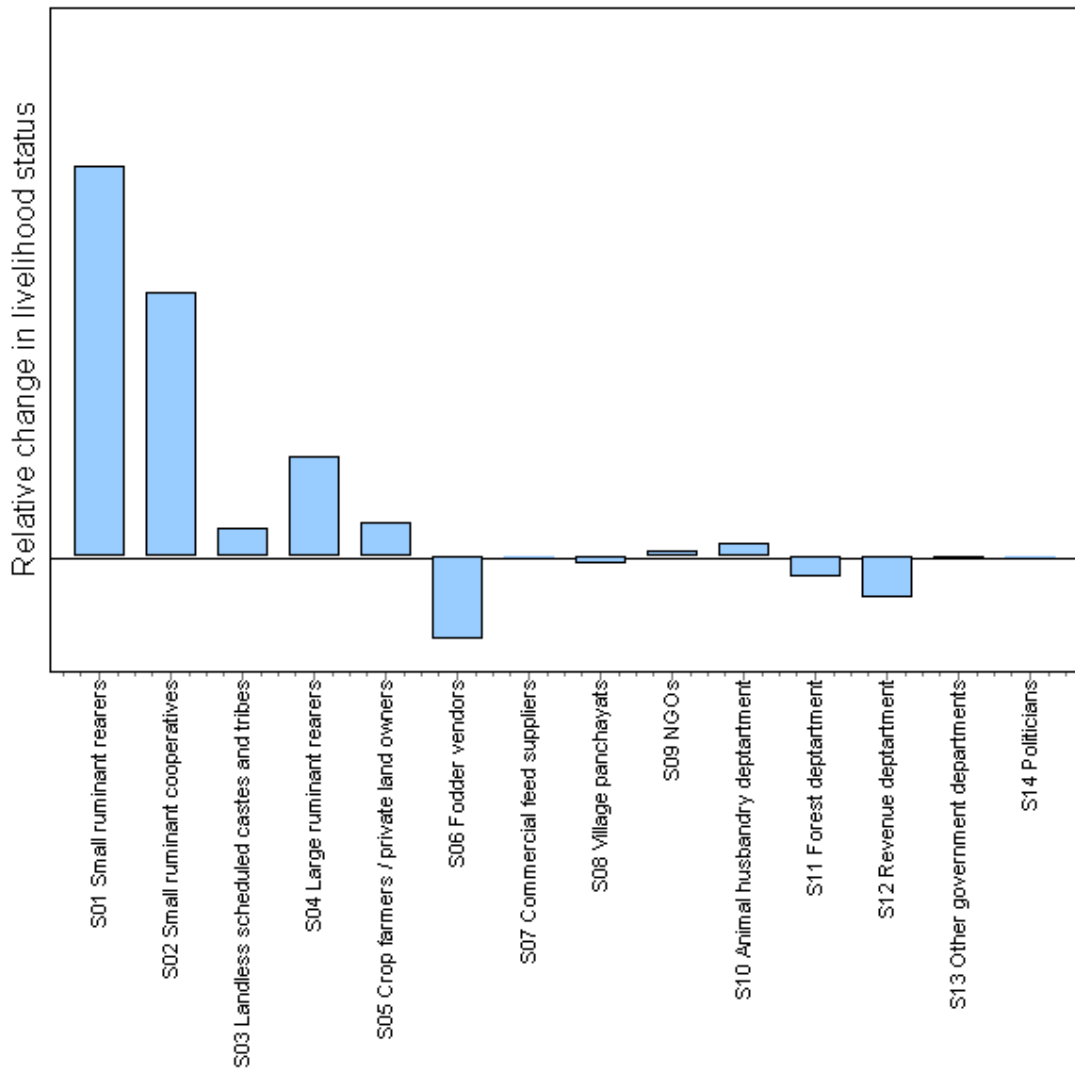
Before and After Comparison

This graph compares the livelihood statuses of the stakeholder groups in the model before and after the application of policy instruments.



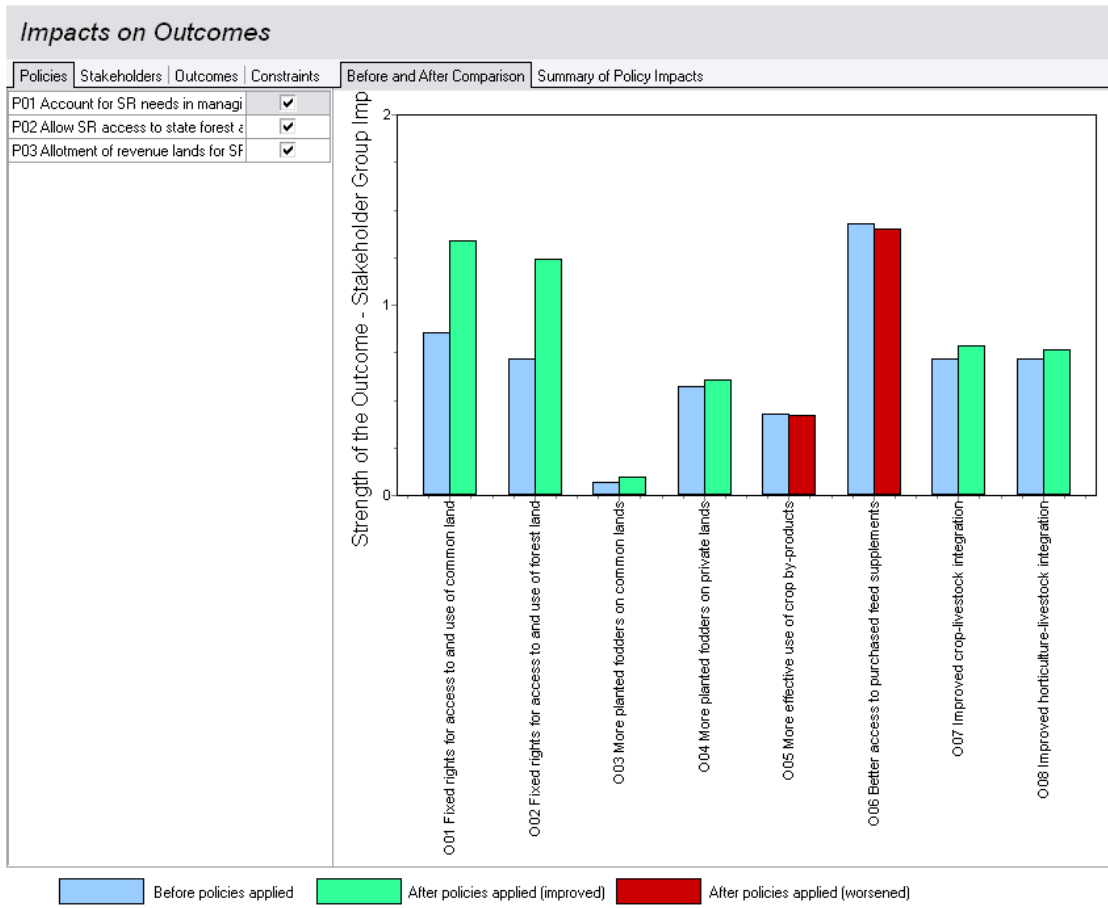
Summary of Policy Impacts

This graph summarises the net changes in livelihood status of the stakeholder groups (both positive and negative) that the model attributes to the application of the policy instruments.



Impacts on Outcomes

The outcomes analysis page summarises, graphically, the impacts of applying a set of policy instruments on the scale of the impacts exerted on the models stakeholder groups by each of the outcomes in the model.



To display the outcomes analysis page:



- ✓ Press the button marked “Impacts on outcomes” under the “Policy Analysis” heading of the side bar.

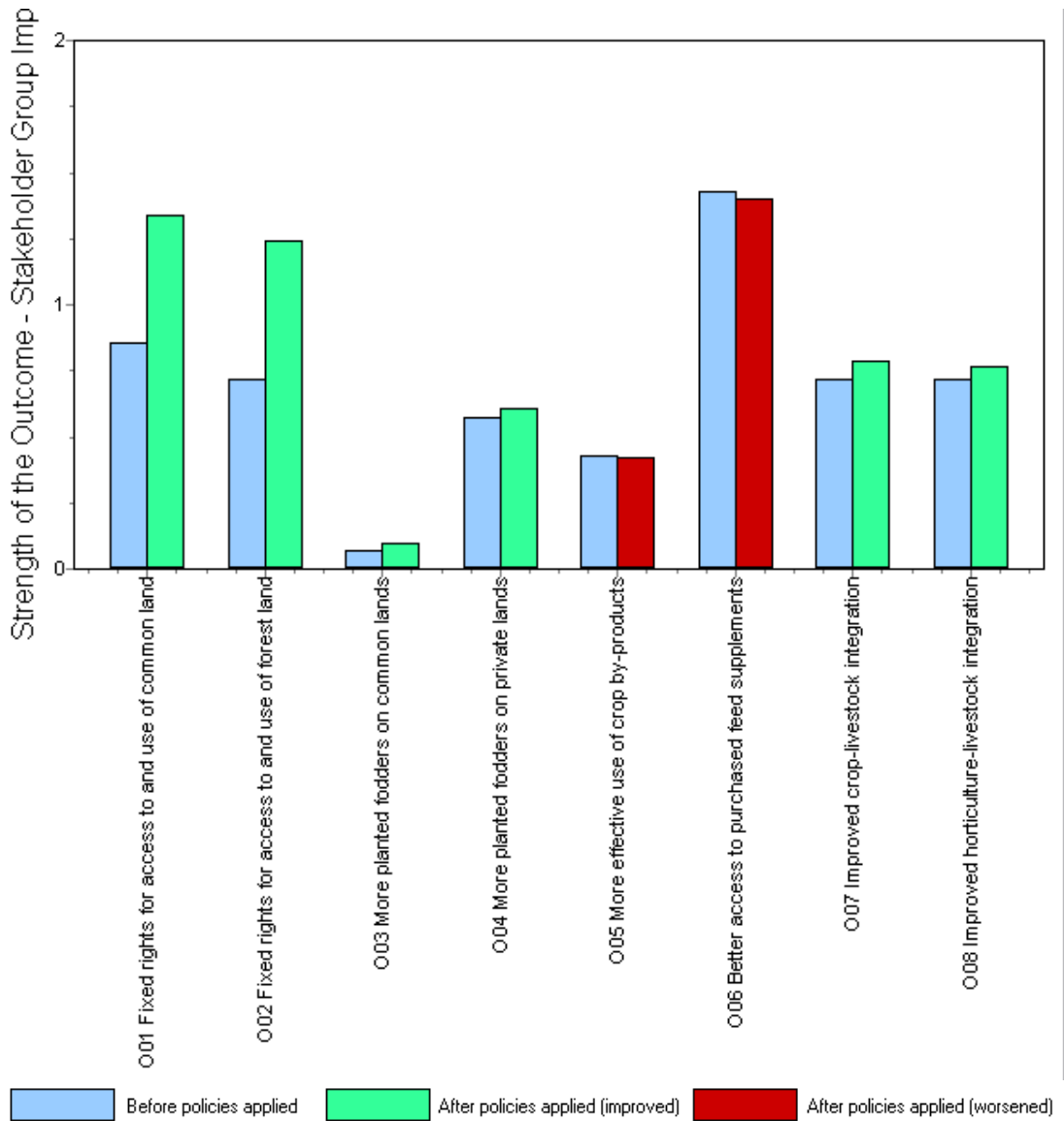
To switch amongst the outputs of the analysis:



- ✓ Select a tab from the set of tabs located above the summary graph.

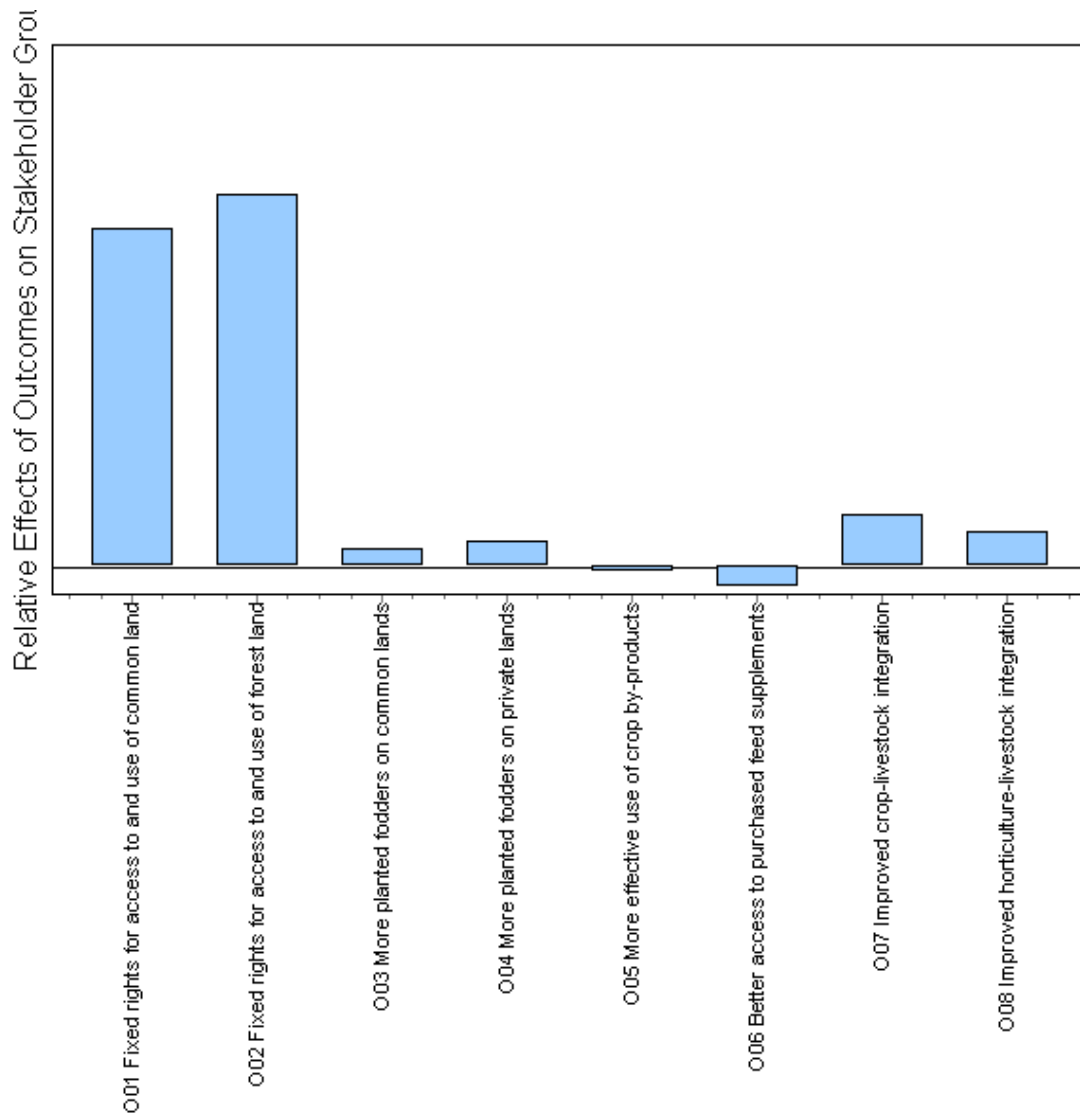
Before and After Comparison

This graph compares the scale of the impacts of outcomes on the livelihood statuses of the stakeholder groups in the model before and after the application of policy instruments.



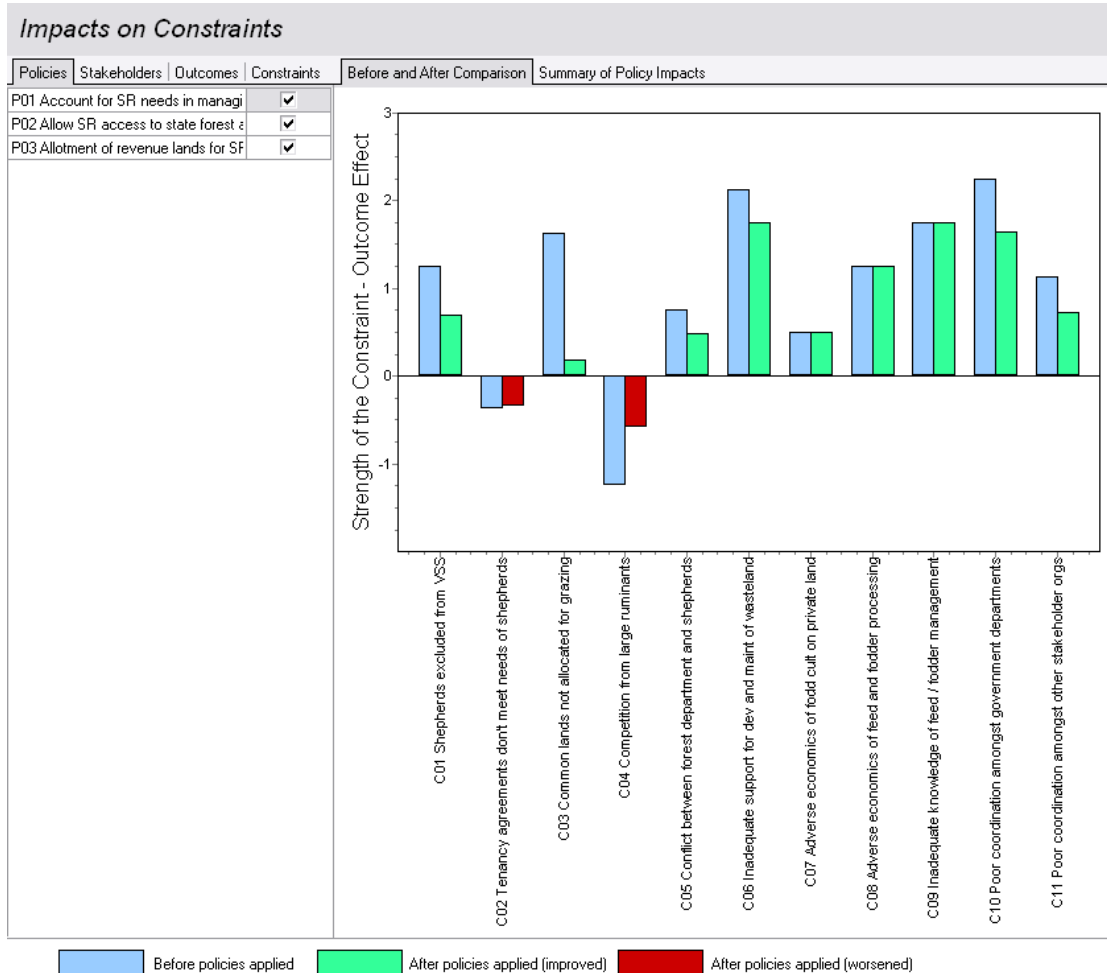
Summary of Policy Impacts

This graph summarises the net changes in the scale of the impacts of model outcomes on the livelihood status of the stakeholder groups (both positive and negative) that the model attributes to the application of the policy instruments.



Impacts on Constraints

The constraints analysis page summarises, graphically, the impacts of applying a set of policy instruments on the scale of the impacts exerted on the models outcomes by each of the constraints in the model.



To display the constraints analysis page:



- ✓ Press the button marked “Impacts on constraints” under the “Policy Analysis” heading of the side bar.

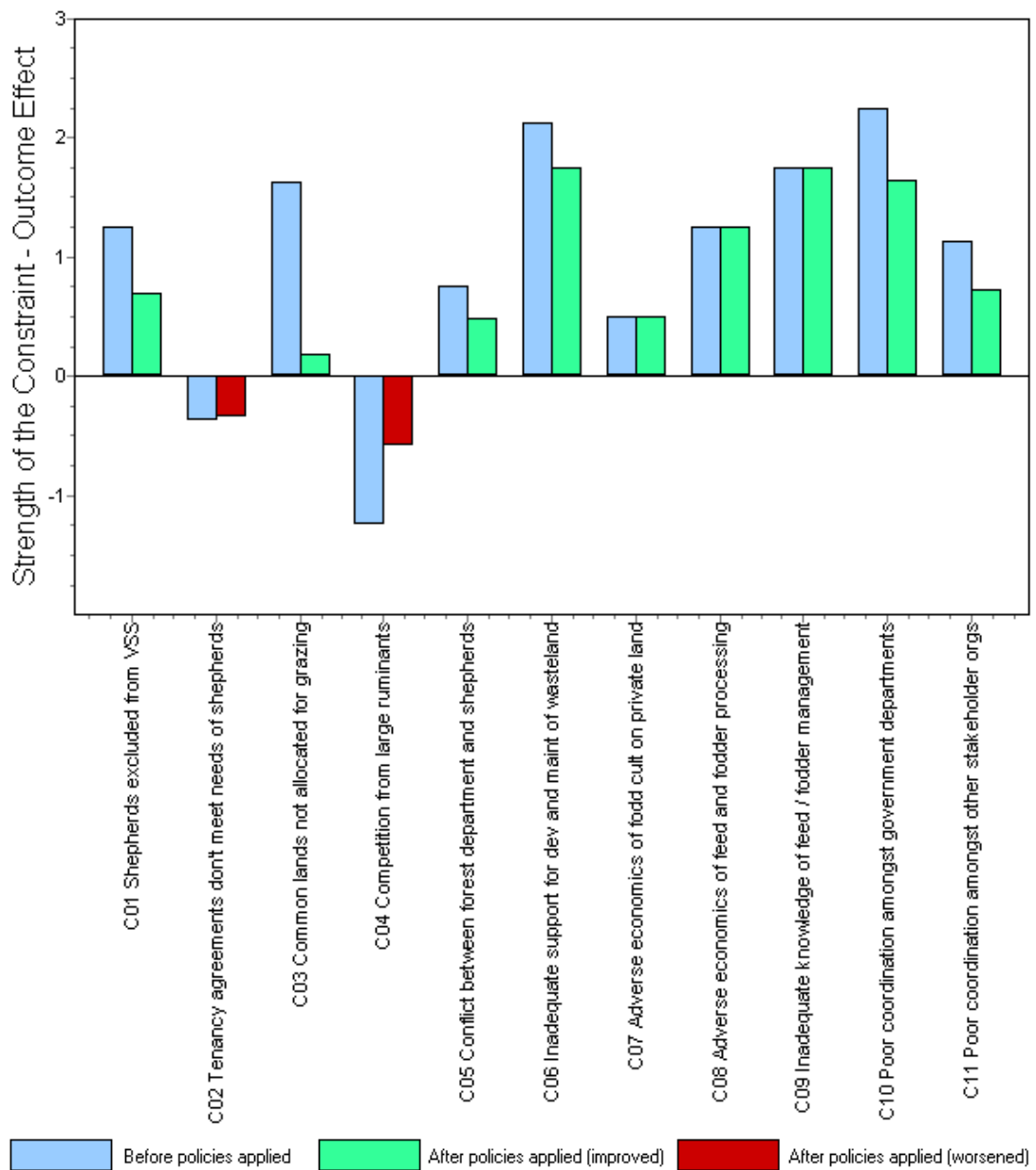
To switch amongst the outputs of the analysis:



- ✓ Select a tab from the set of tabs located above the summary graph.

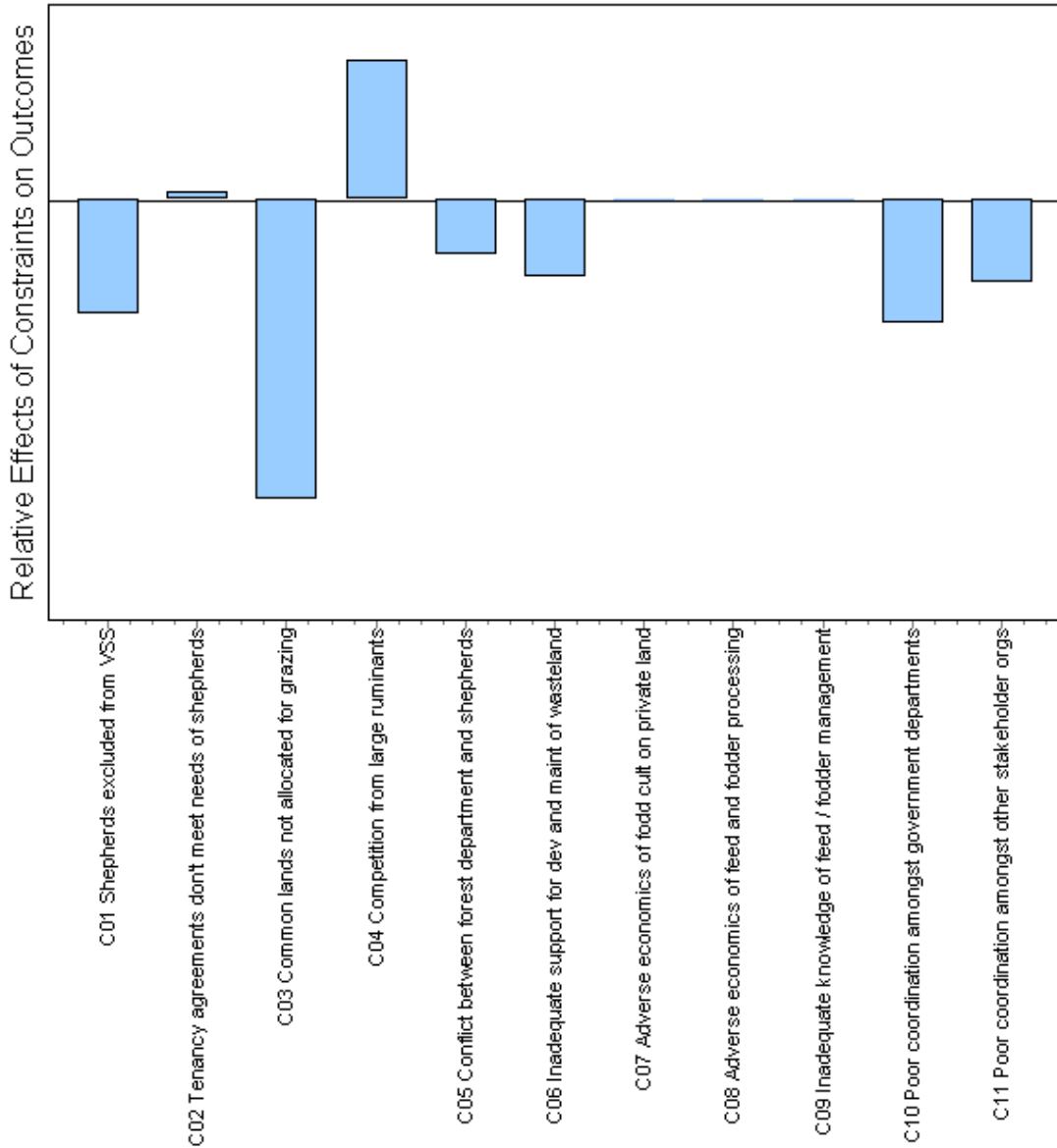
Before and After Comparison

This graph compares the scale of the impacts of constraints on the outcomes in the model before and after the application of policy instruments.



Summary of Policy Impacts

This graph summarises the net changes in the scale of the impacts of model constraints on the outcomes (both positive and negative) that the model attributes to the application of the policy instruments.



Filtering the Analysis

An EXTRAPOLATE policy analysis can be carried out with any subset of the model elements using the filter pages that are located to the left of the analysis output graph.

Policies	Stakeholders	Outcomes	Constraints
P01 Account for SR needs in managi			<input checked="" type="checkbox"/>
P02 Allow SR access to state forest a			<input checked="" type="checkbox"/>
P03 Allotment of revenue lands for SF			<input checked="" type="checkbox"/>

To switch amongst filters:

Policies	Stakeholders	Outcomes	Constraints
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- ✓ Select a tab from the set of tabs located above the filter grids.

To include or exclude a model element from the analysis

P02 Allow SR access to state forest a	<input checked="" type="checkbox"/>
P03 Allotment of revenue lands for SF	<input type="checkbox"/>

- ✓ Check or uncheck the box next to that element in the filter grid

Printing Summaries of the Analyses

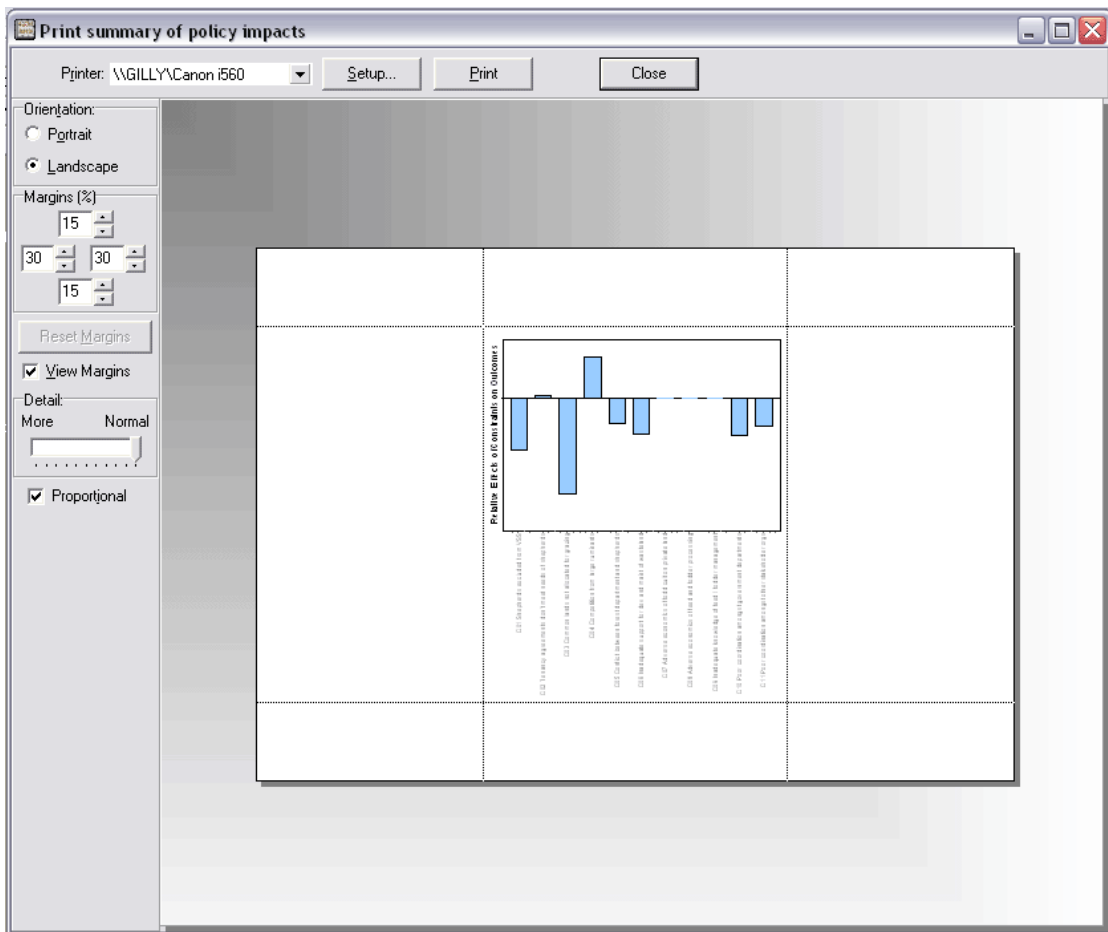
To print a summary graph summarising the results of the analysis that is currently visible:

- ✓ Press the print button on the top right-hand side of the interface


For example, to print the graph summarising the impacts of policies on model constraints :

- ✓ Press the button marked 

This will display a print preview dialog.



To print to the currently selected printer:

- ✓ press the button marked 

Extrapolate System Functions

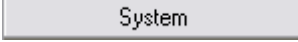
Basic system functions are accessed through the buttons on the System section of the sidebar:



Display the online help file.

Quit the EXTRAPOLATE software package.

After you have selected the model that you wish to work with from the List of Models, to display the Current Model Data section of the side bar:

- ✓ Click on the  section heading.

Get Help

The EXTRAPOLATE help file contains all the information contained in this user guide in a format (MS HTML help) that is easily accessible from within the software itself.

To launch the help file:



- ✓ Press the button marked "Help" under the "System" heading of the side bar.

Closing the EXTRAPOLATE Software

To close the EXTRAPOLATE software programme when you have finished working with it:



- ✓ Press the button marked "Exit Extrapolate" under the "System" heading of the side bar.