THE UNIVERSITY of TENNESSEE Extension

SANREM CRSP

National University of Lesotho

SANREM-CRSP Household Survey – Lesotho, Focus Row Crops

Lat: _____ Long: _____ Date:_____ Elevation: _____Start: _____ Finish: _____

1. Location details

L0. Questionnaire number

L1. Name of interviewer

L2. Name of questionnaire supervisor _____

L3. Full name of person interviewed _____

L4. Village C_____V_____P_____

L5. Council _____

L6. Respondent sex:

2. Household characteristics. *Tell us about your household?*

VarNo	Question	Coded Response	Instructions/Notes
HC1	How many of the following means of transport belong to any of the household members?	a. None ____ b. Bicycles ____ c. Donkey ____ d. Horse/mule ____ e. Car/ pickup trucks ____ f. Other (describe _____) ____	Enter number in appropriate blank. If none, leave blank.
HC2	What are the **THREE** most important crops for foods in your household in the last 12 months? **CROP Code** 1. Grain maize 3. Green mealies 5. Beans 7. Potatoes 9. Tomatoes 11. Peppers 13. Rye 15. Sorghum 17. Wheat 19. Barley 21. Leafy green veggies 23. Peas 25. Other _____	**CROP Codes** a. Staple #1 _____ b. Staple #2 _____ c. Staple #3 _____	Place appropriate crop code in each blank. If less than three crops, place an "X" in the remaining blanks.
HC3	Of the total amount of staple consumed by the household over the last year: 1) What percent was produced by the household? 2) What percent was purchased with cash? 3) What percent was bought on credit? 4) What percent was received as a gift or food aid?	1. Produced On-farm 2. Cash Purchase 3. Credit Purchase 4. Gift/ Food Aid Staple #1 a.___+ b.___ +c. ___ + d. ___= 10 Staple #2 e.___+ f.___ +g. ___ + h. ___= 10 Staple #3 i.___+ j.___ +k. ___ + l. ___= 10	*NOTE: Use 10 stones. Shares sum to 10

			Income share out of 10 stones	Primary earner	←EARNER Code
HC4	What proportion of your household income out of 10 comes from the following sources?	*NOTE: Shares sum to 10→ (a + b + c + d e + f + g + h + i + j = 10)	a. Working for other farmers _____ b. Crop sales _____ c. Livestock sales _____ d. Brewing_____ e. Remittances _____ f. Non-farm employment _____ g. Spaza store _____ h. Pension._____ i Renting farm tools or animals to others _____ j. Other (Describe): _____	a. _____ b. _____ c. _____ d._____ e. _____ f. _____ g. _____ h. _____ i. _____ j _____	1 = Respondent 3 = Respondent's spouse 5 = Respondent's daughter(s) 7 = Respondent's son(s) 9 = Other (describe)

NOTES: Please enter any additional field notes here while performing the survey.

2. Household characteristics. OBSERVE housing conditions and note the following: (***Only ask what is not observable.***)

HC5. For your primary residence, what is the roof made of?	**HC6**. What is the floor made of?	**HC7**. What are the walls made of?	**HC9**. Do you have a latrine / toilet?	**HC10**. Do you have electricity?	**HC11**. How many rooms in house (used by the HH)?	**HC12**. What is your primary water source?	**HC13**. Distance to water **in minutes**
1=Iron Sheets 3=Thatch (grass/leaves etc.) 5=clay tile 7=other____	1=earth 3=brick 5=board/wood en 7=cement/tile 9=other____	1=earth/mud 3=earthen brick 5=board 7=cement 9=burnt brick 11=other____	0=no 1=yes	0=no 1=yes	number of rooms	1=Tap 3=Borehole 5=Open well 7=river, pond, lake, swamp 9=protected spring 11= rainwater tank	0= In compound Otherwise enter distance in km. (use decimals)
Code	Code	Code	Code	Code	#	Code	Dist.

3. General farming characteristics

G1. Number of fields rented out is _____ , which is _____ acres at _____Maluti in **total**.

G2. What is the important signal (matšoao) for weeding a **MAIZE** field? Answer: _____		←Enter answer
G3. Which of the following problems do you encounter in grain storage? (mark all that apply) 1 = Rats…3 = People…5 = Weevils 7 = Moths…9 = Mold/fungus 222 = Other (describe)_____		←Enter code
G4. How far apart do you plant your maize? (Have respondent use ruler to indicate distance in centimeters)	Spacing between rows (cm):	Spacing between plants in rows (cm):
G5. How many maize seeds to you put in a hole? (Answer only for Likoti farmers)		←Enter number
G6. What month do you plant your winter crops?		←Enter month or range (ex. Oct-Nov)
G7. What month do you plant your summer crops?		←Enter month
G8. Do you recall a time when there was another crop grown more than maize now? If so, what crop?		←Enter crop

G9. What is the current farmgate price for maize?

a. Grain maize_____(Units) for_____ Maluti

b. Fresh maize_____(Units) for_____ Maluti

4. Household demographics (A "household" member is anyone who relies on you for income, food, and/or shelter). ***We would like to ask you some questions about you and your family…***

******Multiple Answers are acceptable******
Not Applicable = if crop is not included among household enterprises or if this person did not participate in the listed activities

HD1. Name (**Circle Head of Household name**)	**HD2**. Sex 1=Female 3=Male	**HD3**. Age	**HD4**. Family Status 1 = Household head (HH) 3 = Spouse of HH 5 = Son/daughter 7 = Extended family member 9 = No family ties 11 = Employee	**HD5**. Current residence of household member 1 = This house 3 = Other house, this village 5 = Not this village, in district 7 = Other district/Maseru 9 = Outside Lesotho	**HD6.** Education (Highest level of formal education attained) 0 = no formal education 1 = Pre-school 3= Primary 5 = Secondary 7 = High school 9 = College 11 = University 444 = Technical/Professional	**HD7**. Principal Economic Activity 0 = None 1 = Self employed agriculture (farmer) 3 = Hired labor agriculture 5 = Salaried position (non ag) 7 = Salaried retired (pension) 9 = Student 11 = Spaza store 13 = Housewife 15 = Shepherd/herding 222=other (describe)	**HD8.** Years making farm decisions	**HD9**. Primary farming labor contribution 0 = Not applicable 1 = Land preparation 3 = Planting 5 = Weeding 7 = Apply chemicals 9 = Bring crop from field 11 = Dehusking 13 = Threshing 15 = Marketing 17 = Tend livestock
Respondent:								
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								
16.								
17.								

5. General Farm Characteristics. ***We would like to know a little about your farm and farm management.***

VarNo	Question	Coded Response	Instructions/Notes
FS1	How many of the following animals are owned by the household?	Total 1. Layer/broiler chickens _____ 3. Yard chickens _____ 5. Pigs _____ 7. Goats _____ 9. Sheep _____ 11. Cattle _____ 13. Ducks _____ 15. Horses _____ 17. Mules _____ 19. Donkey _____ 21. Other (Describe) _____	If none, enter zero. Otherwise, enter number of each.
FS2	For each animal raised on the farm which best describes your management practices over the last 12 Months: 0 = Not applicable 1 = Shepherding/summer cattle post 3 = Shepherding/village area grazing in lowlands 5 = Tethering 7 = Confining animals 9 = Free range 222 = Other (describe)	1. Layer/broiler chickens _____ 3. Yard chickens _____ 5. Pigs _____ 7. Goats _____ 9. Sheep _____ 11. Cattle _____ 13. Ducks _____ 15. Horses _____ 17. Mules _____ 19. Donkey _____ 21. Other (Describe) _____	Place the appropriate code in each blank that received a non-zero response in FS1. Multiple answers acceptable.
FS3	For each animal, which of the following best describes your feeding practices over the last 12 months: 0 = Not applicable 1 = No feeds are given (animals fend for themselves) 3 = Supervised grazing on own crop residue 5 = Supervised grazing on other's crop residue 7 = Supplementary feed at least part of the time 9 = Stall feeding 222 = Other (describe)	1. Layer/broiler chickens _____ 3. Yard chickens _____ 5. Pigs _____ 7. Goats _____ 9. Sheep _____ 11. Cattle _____ 13. Ducks _____ 15. Horses _____ 17. Mules _____ 19. Donkey _____ 21. Other (Describe) _____	Place the appropriate code in each blank that received a non-zero response in FS1. Multiple answers acceptable.
FS4	What is the current market price for each type of animal on your farm, **IF SOLD TODAY**?	1. Layer/broiler chickens M _____ 3. Yard chickens M _____ 5. Pigs M _____ 7. Goats M _____ 9. Sheep M _____ 11. Cattle M _____ 13. Ducks M _____ 15. Horses M _____ 17. Mules M _____ 19. Donkey M _____ 21. Other (Describe) M _____	Place the total amount in each blank that received a non-zero response in **FS1**

NOTES: Please enter any additional field notes here while performing the survey.

FS5

How many of the following tools are owned by your household and what is their value?

	1. Total Number	2. Value if sold today (M)
a. Axes		
b. Hoes		
c. Knapsack sprayer		
d. Irrigation pump		
e. Sickle		
f. Shovel/spade		
g. Tractor		
h. Plough (animal drawn)		
i. Plough (tractor drawn)		
j. Ox-drawn Cart		
k. Wheel barrow		
l. Jab planter		
m. Oxen planter		
n. No-till planter		
o. Harrow		
p. Other		

IF none, enter zero in total number column. Otherwise, enter total number.

FS6

Who is mainly responsible for the management of these crops or animals on this farm?

1 = Women
3 = Men
5 = Both sexes
7 = Children < 15 years old

Crops

1. Grain maize _____
3. Green mealies _____
5. Beans _____
7. Potatoes _____
9. Tomatoes _____
11. Peppers _____
13. Rye _____
15. Sorghum _____
17. Wheat _____
19. Barley _____
21. Leafy green veggies _____
23. Peas _____
25. Other _____

Animals

1. Layer/broiler chickens _____
3. Yard chickens _____
5. Pigs _____
7. Goats _____
9. Sheep _____
11. Cattle _____
13. Ducks _____
15. Horses _____
17. Mules _____
19. Donkey _____
21. Other (Describe _____

Circle the crop or animal, and place the appropriate gender code in each blank that received a response in FS5.

FS7

Please provide in order of importance the **three main agricultural products produced and sold** by the household over the last 12 months

1 = Most important
2 = Second most important
3 =Third most important

Most Important Crops

1. Grain maize _____
3. Green mealies _____
5. Beans _____
7. Potatoes _____
9. Tomatoes _____
11. Peppers _____
13. Rye _____
15. Sorghum _____
17. Wheat _____
19. Barley _____
21. Leafy green veggies _____
23. Peas _____
25. Other _____

Most Important Animals

1. Layer/broiler chickens _____
3. Yard chickens _____
5. Pigs _____
7. Goats _____
9. Sheep _____
11. Cattle _____
13. Ducks _____
15. Horses _____
17. Mules _____
19. Donkey _____
21. Other (Describe _____

Enter importance code

If more than one "Other," enter 222 and describe under crop code

FS8

Final ranking

Crops

1. Grain maize _____
3. Green mealies _____
5. Beans _____
7. Potatoes _____
9. Tomatoes _____
11. Peppers _____
13. Rye _____
15. Sorghum _____
17. Wheat _____
19. Barley _____
21. Leafy green veggies _____
23. Peas _____
25. Other _____

Animals

1. Layer/broiler chickens _____
3. Yard chickens _____
5. Pigs _____
7. Goats _____
9. Sheep _____
11. Cattle _____
13. Ducks _____
15. Horses _____
17. Mules _____
19. Donkey _____
21. Other (Describe) _____

Compare #1 animal with #1 crop and ask respondent to choose preferred. Then compare the one not chosen with the second rank, etc.

FS9. Use of Crop Residues: What is done with maize stover and other crop residue?
Enumerator: Using stones, ask respondent to put stones on uses in terms of importance (**sum of uses = 10**).

	a. Removed and used for fuel	c. Removed and fed to animals	c. Left and fed to animals in the field	d. Left in the field for residue cover
Maize residue				

6. Crop investment and production ***Tell us about the crop fields you manage?*** (Enumerator, please gather the following information for crop fields managed by the household, 2009 - 2010)

PT1. Enter field Field:	**PT2.** Field size (Specify as **acres**)	**PT3.** Which picture resembles the amount of crop residue at planting? 1=25%, 2=50%, 3=75%, 4=90% (Use pictures)	**PT4.** Walking minutes to field from house	**PT5. Weather code** (Enter **WEATHER** Code) (Ask how weather was for the 2009 – 2010 season)	**PT6.** Which best describes this field? (Enter **DESCRIBE** Code)	**PT7.** Planting date of current crop? (Enter Day/Month)	**PT8.** *Summer cropping*: Which management method was used last year? (**CROP and MANAGEMENT** codes below) Example: 17/AD = Wheat, Tilled Before Planting, Wheat Straw Left on Field After Harvest			**PT9.** *Winter cropping*: Which management method was used last year? (**CROP and MANAGEMENT** code below)			**PT10.** *Current growing season*: Which management method was or will be used? (**CROP and MANAGEMENT** code below)		**PT11. Next winter:** Which management method will be used? (**CROP and MANAGEMENT** code below)	
							A. Crop and management (**CROP** and **MANAGEMENT** Code below)	**B.** Quantity produced (**UNIT** Code) Example: 8 x (11)	**C.** Primary decision maker? (**DMAKER** Code)	**A.** Crop and management (**CROP** and **MANAGEMENT** Code below)	**B.** Quantity produced (**UNIT** Code)	**C.** Primary decision maker? (**DMAKER** Code)	**A.** Crop and management (**CROP** and **MANAGEMENT** Code below)	**B.** Primary decision maker? (**DMAKER** Code below)	**A.** Crop and management (**CROP** and **MANAGEMENT** Code below)	**B.** Primary decision maker? (**DMAKER** Code below)
1							/			/			/		/	
2							/			/			/		/	
3							/			/			/		/	
4							/			/			/		/	
5							/			/			/		/	
6							/			/			/		/	

WEATHER code	**DESCRIBE code**	**CROP code**	**MANAGEMENT code**	**UNIT code**	**DMAKER code**
1 = Extremely wet 3 = Somewhat wet 5 = Rain just about right 7 = Somewhat dry 9 = Extremely dry	1=Mother's parents farmed field 3=Father's parents farmed 5=Spouse's parents farmed field 7=Spouse farmed field 9=Share crop this field from another 11=Purchased field 13=Renting field 15=Obtained field with permission from Chief or Land Board 222=Other (describe)	1. Grain maize 13. Rye 3. Green mealies 15. Sorghum 5. Beans 17. Wheat 7. Potatoes 19. Barley 9. Tomatoes 21. Leafy green veggies 11. Peppers 23. Peas 25. Other	A = Tillage/tractor B = Tillage/animal C = Pot holes D = No-till planter E = Not in production F = Other (describe) _____	1 = 1 KG 11=50 KG sack 3=2.5 KG bowl 13=70 KG sack 5=5 KG sack 15 = 80 KG sack 7=10 KG Sack 17 = 20 liter 9=25 KG sack 19 = Hay bundle 222=Other (specify) 444 = If cobs, describe	R = Respondent S = Spouse B = Both L = Landlord X = Other_____

PT12. What is your BEST FIELD? A._____ (Enter Field) B. Why?_____

Instruction: If all fields are managed using Likoti or no-till, proceed to table 8 and discuss BEST FIELD – skip table 7. If all fields are managed using conventional tillage, proceed to table 7 and discuss BEST FIELD – skip table 8. Otherwise, continue to table 7 and 8; Focus on BEST Conventional and BEST Conservation Agriculture (no-till, Likoti) fields if farmer does both.

7A. Management of Conventional (Non-CA) *BEST FIELD* ONE YEAR AGO from survey date (note: focus on the 2009/2010 crop period) ***GPS Longitude:_____*** ***GPS Latitude:_____***

Activity	**BP1_1** Method (**METH** Code)	**BP1_2** Seed Type/ Variety (**TYPE** Code)	**BP1_3** Frequency (Enter # of times applied)	**BP1_4** Input Source (**SOURCE** Code)	**BP1_5** Input Quantity Used (Enter #)	**BP1_6** Units (**UNIT** Code)	**BP1_7** Unit Price ($M)	**BP1_8** Family **Labor**						**BP1_9** EXCHANGE Group **Labor**			**BP1_10** Hired **Labor**		
								BP1_8_1a Adult male		**BP1_8_1b** Adult female		**BP1_8_1c** Child < 15		**BP1_9_1a** # of people	**BP1_9_1b** Days	**BP1_9_1c** Total cost ($M)	**BP1_10_1a** # of people	**BP1_10_1b** Days	**BP1_10_1c** Total cost ($M)
								#ppl	Days	#ppl	Days	# ppl	Days						
A. Land prep	/	xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx	xxxxxxx	xxxxxxx												
B. Seeding/Planting																			
C. Fertilizer 1																			
D. Fertilizer 2																			
E. Herbicide	xxxxxx																		
F. Pesticide		xxxxxxxxx																	
G. Weeding		xxxxxxxxx		xxxxxxxx	xxxxxxxx														
H. Harvesting		xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
I. Thresh/shell	xxxxxx	xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
J. Drying	xxxxxx	xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
K. Transport		xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
L. Other specify:		xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														

METH Code

Land prep:
1 = Plough
3 = Likoti/potholes
5 = Cons. Ag. With Machines
7 = Other _____
T = Tractor
D = Draft animal
H = People

Seeding/Planting:
0 = Manual planting
1 = Jab planter
3 = Conventional planter, draft animal
5 = Conventional planter, tractor
7 = No till planter & draft animal
9 = No till planter & tractor
11 = Other _____

Fertilizer:
0 = None
1 = Manual broadcast
3 = Placed into hole
5 = Tilled into field
7 = Other_____

Pesticide:
0 = None
1 = By hand
3 = Backpack sprayer
5 = Other_____

Weeding:
0 = None
1 = Manual weeding/hoe
3 = Cultivator
5 = Other_____

Harvesting:
0 = None
1 = Bend ears down, cobs dry on stalk
3 = Harvest entire field at once
5 = Partial harvest

Transport (field to home):
1 = Carry out
3 = Sledge
5 = Animal drawn cart
7 = Automobile/Truck/Tractor
222 = Other _____

TYPE Code

Seed (ask if they know variety name):
1 = Open pollinated variety
3 = Hybrid seed from dealer
5 = Local variety
9 = Other_____

Fertilizer:
0 = None
1 = N-P-K (****ENTER MIX****)
3 = Manure
5 = Urea
7 = Other _____

Herbicide:
0 = None
1 = Round up
3 = Bateluer
5 = Other _____

SOURCE Code

Seed:
1 = Own seed
3 = Neighbor
5 = Dealer
7 = Extension agronomist
9 = Government 11 = Other _____

Fertilizer:
1 = Bags leftover
3 = Own manure
5 = Neighbor's manure
7 = Dealership 9 = Government
11 = Other _____

Herbicide/Pesticide:
1 = Product leftover
3 = Neighbor had some
5 = Product from dealer / shop
7 = Government
9 = Other _____

UNIT Code

1= 1 KG 3=2.5 KG bowl 5=5 KG sack 7=10 KG Sack 9=25 KG sack 11=50 KG sack 13=100 KG sack 15=1 litre 17=Hay bundle 222=other (specify)_____

7B. Management of Conventional (Non-CA) *BEST FIELD* in period JUST BEFORE current crop (note: focus on the 2010 crop period)

Activity	**BP2_1** Method (**METH** Code)	**BP2_2** Seed Variety (**TYPE** Code)	**BP2_3** Frequency (Enter # of times applied)	**BP2_4** Input Source (**SOURCE** Code)	**BP2_5** Input Quantity Used (Enter #)	**BP2_6** Units (**UNIT** Code)	**BP2_7** Unit Price ($M)	**BP2_8** Family Labor						**BP2_9** EXCHANGE Group Labor			**BP2_10** Hired Labor		
								BP2_8_1a Adult male		**BP2_8_1b** Adult female		**BP2_8_1c** Child < 15		**BP2_9_1a** # ppl	**BP2_9_1b** Days	**BP2_9_1c** Total cost ($M)	**BP2_10_1a** # of people	**BP2_10_1b** Days	**BP2_10_1c** Total cost ($M)
								#ppl	Days	#ppl	Days	# ppl	Days						
A. Land prep	/	xxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx	xxxxxxx	xxxxxxx												
B. Seeding/Planting																			
C. Fertilizer 1																			
D. Fertilizer 2																			
E. Herbicide	xxxxxx																		
F. Pesticide		xxxxxxxx																	
G. Weeding		xxxxxxxx		xxxxxxxx	xxxxxxxx														
H. Harvesting		xxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
I. Thresh/shell	xxxxxx	xxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
J. Drying	xxxxxx	xxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
K. Transport		xxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
L. Other specify:		xxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														

METH Code

Land prep:
1 = Plough
3 = Likoti/potholes
5 = Cons. Ag. With Machines
7 = Other _____
T = Tractor
D = Draft animal
H = People

Seeding/Planting:
0 = Manual planting
1 = Jab planter
3 = Conventional planter, draft animal
5 = Conventional planter, tractor
7 = No till planter & draft animal
9 = No till planter & tractor
11 = Other _____

Fertilizer:
0 = None
1 = Manual broadcast
3 = Placed into hole
5 = Tilled into field
7 = Other_____

Pesticide:
0 = None
1 = By hand
3 = Backpack sprayer
5 = Other_____

Weeding:
0 = None
1 = Manual weeding/hoe
3 = Cultivator
5 = Other_____

Harvesting:
0 = None
1 = Bend ears down, cobs dry on stalk
3 = Harvest entire field at once
5 = Partial harvest

Transport (field to home):
1 = Carry out
3 = Sledge
5 = Animal drawn cart
7 = Automobile/Truck/Tractor
222 = Other _____

TYPE Code

Seed (ask if they know variety name):
1 = Open pollinated variety
3 = Hybrid seed from dealer
5 = Local variety
9 = Other_____

Fertilizer:
0 = None
1 = N-P-K (****ENTER MIX****)
3 = Manure
5 = Urea
7 = Other _____

Herbicide:
0 = None
1 = Round up
3 = Bateluer
5 = Other _____

SOURCE Code

Seed:
1 = Own seed
3 = Neighbor
5 = Dealer
7 = Extension agronomist
9 = Government 11 = Other _____

Fertilizer:
1 = Bags leftover
3 = Own manure
5 = Neighbor's manure
7 = Dealership 9 = Government
11 = Other _____

Herbicide/Pesticide:
1 = Product leftover
3 = Neighbor had some
5 = Product from dealer / shop
7 = Government
9 = Other _____

UNIT Code 1= 1 KG 3=2.5 KG bowl 5=5 KG sack 7=10 KG Sack 9=25 KG sack 11=50 KG sack 13=100 KG sack 15=1 litre 17=Hay bundle 222=other (specify)_____

8A. BEST Field under Conservation Agriculture Practice ONE YEAR AGO from survey date (note: focus on the 2009/2010 crop period) ***GPS Longitude:_____ GPS Latitude:_____***

Activity	**PB1_1** Method (**METH** Code)	**PB1_2** Seed Type/ Variety (**TYPE** Code)	**PB1_3** Frequency (Enter # of times applied)	**PB1_4** Input Source (**SOURCE** Code)	**PB1_5** Input Quantity Used (Enter #)	**PB1_6** Units (**UNIT** Code)	**PB1_7** Unit Price ($M)	**PB1_8** Family Labor						**PB1_9** EXCHANGE Group Labor			**PB1_10** Hired Labor		
								PB1_8_1a Adult male		**PB1_8_1b** Adult female		**PB1_8_1c** Child < 15		**PB1_9_1a** # of people	**PB1_9_1b** Days	**PB1_9_1c** Total cost ($M)	**PB1_10_1a** # of people	**PB1_10_1b** Days	**PB1_10_1c** Total cost ($M)
								#ppl	Days	#ppl	Days	# ppl	Days						
A. Land prep	/	xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx	xxxxxxx	xxxxxxx												
B. Seeding/Planting																			
C. Fertilizer 1																			
D. Fertilizer 2																			
E. Herbicide	xxxxxx																		
F. Pesticide		xxxxxxxxx																	
G. Weeding		xxxxxxxxx		xxxxxxxx	xxxxxxxx														
H. Harvesting		xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
I. Thresh/shell	xxxxxx	xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
J. Drying	xxxxxx	xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
K. Transport		xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
L. Other specify:		xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														

METH Code

Land prep:
1 = Plough
3 = Likoti/potholes
5 = Cons. Ag. With Machines
7 = Other _____
T = Tractor
D = Draft animal
H = People

Seeding/Planting:
0 = Manual planting
1 = Jab planter
3 = Conventional planter, draft animal
5 = Conventional planter, tractor
7 = No till planter & draft animal
9 = No till planter & tractor
11 = Other _____

Fertilizer:
0 = None
1 = Manual broadcast
3 = Placed into hole
5 = Tilled into field
7 = Other_____

Pesticide:
0 = None
1 = By hand
3 = Backpack sprayer
5 = Other_____

Weeding:
0 = None
1 = Manual weeding/hoe
3 = Cultivator
5 = Other_____

Harvesting:
0 = None
1 = Bend ears down, cobs dry on stalk
3 = Harvest entire field at once
5 = Partial harvest

Transport (field to home):
1 = Carry out
3 = Sledge
5 = Animal drawn cart
7 = Automobile/Truck/Tractor
222 = Other _____

TYPE Code

Seed (ask if they know variety name):
1 = Open pollinated variety
3 = Hybrid seed from dealer
5 = Local variety
9 = Other_____

Fertilizer:
0 = None
1 = N-P-K (****ENTER MIX****)
3 = Manure
5 = Urea
7 = Other _____

Herbicide:
0 = None
1 = Round up
3 = Bateluer
5 = Other _____

SOURCE Code

Seed:
1 = Own seed
3 = Neighbor
5 = Dealer
7 = Extension agronomist
9 = Government 11 = Other _____

Fertilizer:
1 = Bags leftover
3 = Own manure
5 = Neighbor's manure
7 = Dealership 9 = Government
11 = Other _____

Herbicide/Pesticide:
1 = Product leftover
3 = Neighbor had some
5 = Product from dealer / shop
7 = Government
9 = Other _____

UNIT Code 1= 1 KG 3=2.5 KG bowl 5=5 KG sack 7=10 KG Sack 9=25 KG sack 11=50 KG sack 13=100 KG sack 15=1 litre 17=Hay bundle 222=other (specify)_____

88. Management of BEST Field under Conservation Agriculture Practice in period JUST BEFORE current crop (note: focus on the 2010 crop period, and the same field above)

Activity	**PB2_1** Method (**METH** Code)	**PB2_2** Seed Type/ Variety (**TYPE** Code)	**PB2_3** Frequency (Enter # of times applied)	**PB2_4** Input Source (**SOURCE** Code)	**PB2_5** Input Quantity Used (Enter #)	**PB2_6** Units (**UNIT** Code)	**PB2_7** Unit Price ($M)	**PB2_8** Family Labor						**PB2_9** EXCHANGE Group Labor			**PB2_10** Hired Labor		
								PB2_8_1a Adult male		**PB2_8_1b** Adult female		**PB2_8_1c** Child < 15		**PB2_9_1a** # of people	**PB2_9_1b** Days	**PB2_9_1c** Total cost ($M)	**PB2_10_1a** # of people	**PB2_10_1b** Days	**PB2_10_1c** Total cost ($M)
								#ppl	Days	#ppl	Days	# ppl	Days						
A. Land prep	/	xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx	xxxxxxx	xxxxxxx												
B. Seeding/Planting																			
C. Fertilizer 1																			
D. Fertilizer 2																			
E. Herbicide	xxxxxx																		
F. Pesticide		xxxxxxxxx																	
G. Weeding		xxxxxxxxx		xxxxxxxx	xxxxxxxx														
H. Harvesting		xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
I. Thresh/shell	xxxxxx	xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
J. Drying	xxxxxx	xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
K. Transport		xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														
L. Other specify:		xxxxxxxxx	xxxxxxxxx	xxxxxxxx	xxxxxxxx														

METH Code

Land prep:
1 = Plough
3 = Likoti/potholes
5 = Cons. Ag. With Machines
7 = Other _____
T = Tractor
D = Draft animal
H = People

Seeding/Planting:
0 = Manual planting
1 = Jab planter
3 = Conventional planter, draft animal
5 = Conventional planter, tractor
7 = No till planter & draft animal
9 = No till planter & tractor
11 = Other _____

Fertilizer:
0 = None
1 = Manual broadcast
3 = Placed into hole
5 = Tilled into field
7 = Other_____

Pesticide:
0 = None
1 = By hand
3 = Backpack sprayer
5 = Other_____

Weeding:
0 = None
1 = Manual weeding/hoe
3 = Cultivator
5 = Other_____

Harvesting:
0 = None
1 = Bend ears down, cobs dry on stalk
3 = Harvest entire field at once
5 = Partial harvest

Transport (field to home):
1 = Carry out
3 = Sledge
5 = Animal drawn cart
7 = Automobile/Truck/Tractor
222 = Other _____

TYPE Code

Seed (ask if they know variety name):
1 = Open pollinated variety
3 = Hybrid seed from dealer
5 = Local variety
9 = Other_____

Fertilizer:
0 = None
1 = N-P-K (****ENTER MIX****)
3 = Manure
5 = Urea
7 = Other _____

Herbicide:
0 = None
1 = Round up
3 = Bateluer
5 = Other _____

SOURCE Code

Seed:
1 = Own seed
3 = Neighbor
5 = Dealer
7 = Extension agronomist
9 = Government 11 = Other _____

Fertilizer:
1 = Bags leftover
3 = Own manure
5 = Neighbor's manure
7 = Dealership 9 = Government
11 = Other _____

Herbicide/Pesticide:
1 = Product leftover
3 = Neighbor had some
5 = Product from dealer / shop
7 = Government
9 = Other _____

UNIT Code 1= 1 KG 3=2.5 KG bowl 5=5 KG sack 7=10 KG Sack 9=25 KG sack 11=50 KG sack 13=100 KG sack 15=1 litre 17=Hay bundle 222=other (specify)_____

9. Crop Sales and Purchases: ***We would now like to ask you questions about your crop sales and purchases of most important crop (see FS7, use crops)…***(Note: **for the last 12 months**)

←Transaction	**CS1.** Purchases, sales, barter, exchange, or received of **most important crop**?	**CS2.** What type of transaction?	**CS3.** Person in household making transaction	**CS4.** Transaction point ***and*** gender of person with whom transaction made?	**CS5.** Where did this transaction take place?	**CS5.** Distance: transaction point from farm.	**CS6.** When did transaction take place?	**CS7.** How much was bought or sold? (Transaction quantity)		**CS8.** Price of transaction per unit	**CS9.** Was the price received/paid higher, lower, or same as the price you expected?	**CS10.** Most important reason for transacting with this person?	**CS11.** Main reason transaction made?
	Code (**CROP**) (see **FS7**)	Code (**TRANS**)	1 = Respondent 3 = Spouse 5 = Other (describe)	Code (**TSOURCE/ TSEX**)	Code (list market location) (**TLOC**)	Enter travel time (enter units)	Enter month (**MONTH**)	Quantity sold (Enter amount)	Unit (**UNIT**)	Price per Unit	1=higher, 2=same, 3=lower	Enter code below (**TPERSON**)	Enter code below (**TWHY**)
1				/									
2				/									
3				/									
4				/									
5				/									
6				/									
7				/									
8				/									
9				/									
10				/									

[NOTE: PLEASE CONTINUE IN BLANK AREA IF MORE THAN 10 TRANSACTIONS CAN BE RECALLED]

CROP
1. Grain maize
3. Green mealies
5. Beans
7. Potatoes
9. Tomatoes
11. Peppers
13. Rye
15. Sorghum
17. Wheat
19. Barley
21. Leafy green veggies
23. Peas
25. Other _____

TRANS
1 = Sale (out)
3 = Barter/exchange (out)
5 = Gift (out)
7 = Purchase (in)
9 = Barter/exchange (in)
11 = Gift (in)
13 = Relief (in)
15 = Other _____

TSEX
M = Male
F = Female

TSOURCE
1 = Small trader
3 = Large trader
5 = Store merchant
7 = Friend/neighbor
9 = Family/Relative
11 = Cooperative
13 = Itinerant trader
15 = Research/extension
17 = International organization
19 = NGO
21 = Government source
23 = Other _____

TLOC
1 =Own farm
3 =Neighbor's farm
5 = Village
7 = Outside village
9 = Other _____

MONTH
1=January
2=February
3=March
4=April
5=May
6=June
7=July
8=August
9=September
10=October
11=November
12=December

UNIT
1 = 0.5 KG
3 = 1 KG
5 =5 KG sack
7 =10 KG sack
9 =25 KG sack
11 =50 KG sack
13 =70 KG sack
15 =1 litre
17 = 20 litre
19 =Hay bundle
21 =Other (specify) _____

TPERSON
1 = Family
Somebody I know
3 = Not family, but somebody I know
5 = Person not personally known
7 = Product guaranteed by transactor
9 = Transactor provided credit
11 = Other _____

TWHY
1 = Hungry, needed food
3 = Product was spoiling
5 = Just needed money
7 = Buy agriculture inputs
9 = Children's education
11 = Medical care
13 = Buy clothes
15 = Pay back loan
17 = Funeral
19 = Marriage
21 = Build house
23 = Other _____

10. Rural Services and Credit

RS1	Have you ever received any type of formal training in any agricultural subject?	Yes___1 No___3	
RS2	From whom did you receive this training?	Source 1:_____ Sex:_____ Source 2_____ Sex:_____	List source and sex
RS3	How do you acquire information about the prices prevailing in the markets for the commodities you produce and sell? (Multiple responses are allowed – please use **ALL** codes). 1 = From hearsay among friends and neighbors 3 = From radio 5 = From newspaper 7 = From produce buyers 9 = Farmer organization / co-op 11 = Government / Extension 13 = Unable to respond (if applicable, place in 'Always' row)	Frequency: Sometimes / Often / Always / Never Most Important Crop_____ (**Crop code**) (***see FS7***)	Enter as range of numbers if many in one category (e.g. 3-11)

What were the terms of any credit or loans received since January 2010?

RC1. Source 0= None 1 = Produce buyer 3 = Farmer group / co-op 5 = Bank / Credit union 7 = Local money lenders 9 = Family and friends 11 = Community group 13 = Other (describe)_____	**RC2.** Month and Year	**RC3.** Loan amount (M or R)	**RC4.** Form of loan? 1 = Maluti/Rand 3 = Fungicides 5 = Pesticides 7 = Fertilizers 9 = Seed 11 = Herbicide 222 = Other (describe)	**RC5.** Sex of lender (Enter "M" or "F")	**RC6.** How much did you have to repay?	**RC7.** What did you use the loan for? (specify crop or animal and general items purchased)	**RC8.** When was loan repaid?
1.							
2.							

11. Knowledge, understanding, and attitudes. ***We would like to ask you some questions about your attitudes towards farming.***

Enumerator: enter appropriate code: **0** = No Response; **1** = Disagree; **2** = Neutral; **3** = Agree →	Enter code (**0**, **1**, **2**, **3**)
KU1. Timely weeding is important to a successful harvest.	
KU2. Inorganic fertilizer is best to improve soil quality.	
KU3. Applying pesticides is always necessary.	
KU4. Cover crops should be maintained on my fields.	
KU5. Rotating crops is always the best practice	
KU6. Land is Basotho heritage that should be preserved for future generations.	
KU7. Farm production is necessary to feed the family.	
KU8. Planting decisions are always based on current market prices.	
KU9. Earning off-farm income is more important than a large harvest.	
KU10. Crops should only be grown for sale.	
KU11. One should strive to grow the most on one's fields.	
KU12. Farm labor should be replaced by more efficient chemicals and machines.	
KU13. Farm income should always be reinvested to grow the farm business.	
KU14. The staple crop should be planted on the majority of my fields every growing season.	
KU15. It is better to grow staples by the household than to purchase them from others.	
KU16. Engaging in multiple productive activities is always better than doing just one	
KU17. Spreading crops and inputs across multiple fields is always necessary	
KU18. Crop residues should only be fed to livestock and poultry	
KU19. Tilling causes erosion	
KU20. Land preparation for crop production begins with plowing	

12. Identification of the quality of relations within the agricultural production network

For both resource questions and the location and events question, only record the first response or primary interaction. If no resource or information (none) is accessed through interaction with a particular individual, go to the next individual.

People with which contact is made in order to conduct agricultural production activities (if no agricultural interaction, leave row blank)	What physical resources are accessed through interaction? 1. Seed 3. Fertilizer 5. Pesticide 7. Herbicide 9. Tractor 11. Other_____ 13. None	What form of information is accessed through interaction? 1. Advice or consultation 3. Only information 5. None	Who Initiates the contact most of the time? 1. Always them 3. Mostly them 5. 50/50 7. Mostly respondent 9. Always respondent	Location and Events: Where do you interact? 1. Farm 3. Store 5. Office 7. Market 9. NGO Office 11. Community center 13. Farmer field day/event 15. Home garden 17. Collective garden 19. Other_____	Frequency: How often do you interact? 1. Weekly 3. Biweekly 5. Monthly 7. Seasonally 9. Yearly	Quality: Can you trust resources/info from this source? 1. Always 3. Most of the time 5. Somewhat 7. Rarely 9. Never	Gender 1. All male 3. Mostly male 5. 50/50 7. Mostly female 9. All female
Village chief							
Family member							
Neighbor/friend							
Vendor in weekly market							
Vendor in a shop in urban center							
Vendor in a agrochemical shop							
Teacher in village							
Minister/Priest/Imam in village							
Extension agent							
NGO Agent							
Agricultural researcher							
Development project agent							
Tractor owner							
Leader of farmer organizations							
Leader of women's organization							
Leader of youth organisation							
District assemblyman or his agent							
Other to be determined on site…(from focus group or key informant sources)							