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## TRANSFER AND ADOPTION OF TECHNOLOGY BY SHEEP AND GOAT FARMERS IN QWAQWA : QUESTIONNAIRE FOR PERSONAL INTERVIEW

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Sources: Nichola, T.  
Van Schalkwyk, H. D.  
Venter, G. C. R. & Madolo, M. C.

### ***General information***

		For office use only	
Name of interviewee		1-4	
Date of interview			1
Respondent's name			
Address:	P.O. Box		
	Town		
	Code		
Telephone number			
Region			
Town/village			
Type of farming (Name one)	Mixed Livestock Crops - Irrigation Crops - Dryland Fruit - Irrigation	1 2 3 4 5	         5
Kind of farm (tenure status) (Name one)	Private owner Communal South African Development Trust Open access Rent & share cropping	1 2 3 4 5	         6

## ***A. Biographical characteristics***

A.1 Gender	Male	1			
	Female	2			7
A.2 Age in years		years			8-9

## ***B. Human capital endowments***

### **Education** .....○○○

B.1 What is your highest educational qualifications?

	Farmer	Spouse(s)	Children		
None	1	1	1		
Grade 5 and lower	2	2	2		
Grades 6-7	3	3	3		10
Grades 8-9	4	4	4		11
Grades 10	5	5	5		12
Grades 11-12	6	6	6		
Post-matric level	7	7	7		

### **Knowledge – farming experience** .....○○○

B.2 How long have you been farming?		years			13-14
B.3 How long have you been farming on your current farm?		years			15-16
B.4 How long have you been farming with the current enterprises?		years			17-18
Crops					
Livestock		years			19-20

B.5 Indicate whether you have the following abilities:

	Talk		Read		Write					
	Yes	No	Yes	No	Yes	No				
English	1	0	1	0	1	0				
Afrikaans	1	0	1	0	1	0				
Sotho or any other native language	1	0	1	0	1	0				
										21-29

B.6 Indicate your arithmetic abilities

None	1		
Little	2		
Average	3		
Good	4		30

B.7 Are you or your wife, family of the chief?

Yes	1		
No	2		31

### Level of entrepreneurship and creativity .....○○○

B.8 Rate the farmer (description of the farmer's characteristics) according to the following statements between 4 (strongly agree with the statement) and 1 (strongly disagree with the statement). **(Do not mention the headings to the farmer while completing the questions!!!)**

	Strongly disagree	Disagree	Agree	Strongly agree		
<b>8.1 Leadership</b>						
You are not afraid to try a new technique (pesticide) before your fellow farmers and you will try to do it on your own before seeking help. (Self-starter) Na ha o tsabe ho ka qala mokgwa o mong o motjha wa ho laola/ho thibela dikokonyana-hloko (mekgasa) pele ho dihwai tse ding pele o ka kopa thuso?	1	2	3	4		32
If you decide to do something on your farm, you will do it and nothing will stop you from doing it. Haeba o ikemiseditse ho etsa ntho e itseng polasing/mohlapeng wa hao, ha ho na le se ka o thibelang ho etsa seo/jwalo?	1	2	3	4		33
Even though people tell you "it can't be done", you have to find it out for yourself. Haeba maikemisetsang av a hao batho ba o eletsela hire o keke wa tswella o tla qetella o entse jwang?	1	2	3	4		34
<b>8.2 Need for achievement of goals</b>						
If you have a problem (challenge) on your farm you will keep on trying to solve the problem (challenge) and you will not quit. Haeba o na le bothata polasing/mohlapeng na o tla leka ho lokisa bothata boo kapa o tla bo tlohela ho fihlela bo o hlola na? Mohlala phokojwe e bolaya makonyana ka ho tlolela ka sakeng la hao bosiu?	1	2	3	4		35
You have the ability to organise the four production factors (land, labour, capital and management) in such a way that the goals set for the farm are achieved. Na ha o ka fuwa masimo/tjhelete/peo ho ntshetsa pele mohlap, o ka kgona ho sebedisa kapa o ka e sebedisa bakeng se seng/morerong o mong o sele?	1	2	3	4		36

	Strongly disagree	Disagree	Agree	Strongly agree	
<b>8.3 Creative skills</b>					
You have the ability to adapt to changes in the farming environment. If the price of beef declines and the price of mutton (sheep) increases are you able to change your farming practices in such a way that you can start producing mutton for the higher demand?	1	2	3	4	37
Na ha theko ya nama ya kgomo e ewa, mme nama ya nku e phahama na o ka leka ho hlahisa nama ya nku e ngata na? Na o ka ikamahanya le diphetoho na? Ho latela maemo?					
You are always looking for opportunities to increase the profit of your farm (The creation and identifying of new markets for products. Have the ability to start growing a new crop, in some cases add value and create a new market for the new product.)	1	2	3	4	38
Na o leka ka matla ho eketsa phaello ya hao ka ho batla nmaraka moo o ka rekisang tlhahiso (boya/lebeso jj) teng ho fuma ha tjelete ya hao?					
<b>8.4 Motivation to progress</b>					
You are not dependent on subsidies or other incentives to adopt new technologies.					
Na hore o etse diphetoho tse isang katlehong o itshetlehile ditlhaaisong tse tswang mmusong kapa o ka di etsa ka bowena na?	1	2	3	4	39
You like supporting and helping your fellow farmers when you see they are struggling or when they come to you with problems.					
Na o ka thabela ho thusa dihwai tse ding ha di na le mathata. Kopa o ka thabele ha ba hloleha ho atleha (mohlala mohlape wa bona o kula,/ o utsuwa).	1	2	3	4	40
<b>8.5 Need for autonomy</b>					
You do not often need to ask other people's opinions before you decide on important things - you can rely on your own knowledge or family to make good decisions.	1	2	3	4	41
Na ha o ikemiseditse ho etsa ntho e itseng. O ka thabela ho utlwa maikutlo a ba tho ba bang ka sepheo sa hao na?					
You are not afraid to be different when it comes to the adoption of new technologies on your farm.					
Na ha o tshabe hoba mokgelo tlhahisong kapa nltafatsong?	1	2	3	4	42
<b>8.6 Attitude towards risk (See D7)</b>					

## Planning skills .....○○○

B.11 To what extent do you plan (maikemisetso) for the future?

Thorough plans and objectives stated	4		
Some plans (rough, incomplete)	3		
Only some idea about planning	2		
No plans (not considered)	1		43

B.12 How long in advance do you think is it necessary to plan (maikemisetso)?

days

44-47

B.13 What are the future plans for the farm?

Indicate in sequence of importance what future plans you have	Specify in terms of herds of cattle or hectare	How do you plan to achieve these objectives?			
1.					48-49 50-51 52-53
2.					54-55 56-57 58-59
3.					60-61 62-63 64-65
4.					66-67 68-69 70-71

B.14 What do you think is the most important financial strategies you must follow (planning that you must do in future) to make a long term success of your farm?  
Place it in sequence of importance from 1 to 5.

	Not important		Important		Very important		
To have sole land rights	1	2	3	4	5		72
Keep production costs low	1	2	3	4	5		73
Must get financial management training before I start farming	1	2	3	4	5		74
My farm must earn a substantial profit for growth	1	2	3	4	5		75
I must be able to honour my instalments each year	1	2	3	4	5		76

1-4  
| | | | 2 |

### Decision-making .....○○○

B.15 Who makes the following agricultural decisions? (Mark only the most important one in each column)

	Technical	Financial
Husband	1	1
Wife	2	2
Husband and wife	3	3
Husband, wife and children	4	4
Father	5	5
Husband and father	6	6
Mother	7	7
Manager	8	8
Husband and manager	9	9
Other (specify)	10	10

5-6  
7-8

### Financial management .....○○○

B.16 Do you keep any farming records?

Yes	1
No	2

9

If "yes", which records?

	Thorough neat	Rough incomplete	Only idea	None
Cost records	4	3	2	1
Income records	4	3	2	1
Production records: Crops	4	3	2	1
Production records: Livestock	4	3	2	1
Labour records	4	3	2	1
Inventory records	4	3	2	1
Other (Specify): 1.	4	3	2	1
2.	4	3	2	1
3.	4	3	2	1
4.	4	3	2	1

10  
11  
12  
13  
14  
15  
16  
17  
18  
19

B.17 Do you think that keeping records is important?

Yes	1
No	2

20

B.18 If “yes”, how important is the records to you?

	Not important	Important	Very important
Determining financial position	1	2	3
Decision-making and planning	1	2	3
To keep the bank or co-op manager happy	1	2	3
Other (Specify)	1	2	3

1-4

### Marketing management .....○○○

B.19 Are there output markets available within an accessible distance from your farm?

Yes	1
No	2

5

B.20 Through which marketing system do you market your livestock?

	Livestock type			
	Sheep	Goats	Wool & Skins	Hair & Skins
Auction or public sale %	1	2	3	4
Open market in town %	1	2	3	4
Private sale %	1	2	3	4
Local trader or cooperative %	1	2	3	4
Own consumption %	1	2	3	4
Value adding direct marketing %	1	2	3	4
Other (Specify) %	1	2	3	4

6-17

18-29

30-41

42-53

54-65

66-77

78-89

## Resources

### Farm size and land-use

.....○○○

1-4

| | | | 4 |

C.1 Land-use	Private ownership (ha)	Share cropping (ha)	Rented land (ha)	State land for which no rent is paid (ha)	Communal land (ha)	Partnership (ha)	Total area (ha)
<b>Croplands</b>							
Irrigation							
Dryland							
<b>Pastures</b>							
Irrigation							
Dryland							
Orchards & vineyards							
Veld							
Total area (ha)							R

| | | | 5-7

| | | | 8-10

| | | | 11-13

| | | | 14-16

| | | | 17-19

| | | | 20-22

| | | | 23-25

### Farm size and land use and gross farm income

.....○○○

C.2 Please provide the following information regarding last season's crops as well as what is planned for the coming season.

		1 Maize	2	3	4	5	6	Total
<b>Dryland:</b>								
Area planted	1996							
	1997							
Total yield (ton/kg)	1996							
	1997							
Total income (R)	1996							R
	1997							R

| | | | 26-31

| | | | 32-37

		1 Maize	2	3	4	5	6	Total
<b>Irrigation:</b>								
Area planted	1996							
	1997							
Total yield	1996							
	1997							
Total income (R)	1996							R
	1997							R

| | | | 38-43

| | | | 44-49

### Other farm income .....○○○

- C.3 Do you render services to other farmers?
- |     |   |  |    |
|-----|---|--|----|
| Yes | 1 |  |    |
| No  | 2 |  | 50 |
- C.4 If “yes”, are you paid for the services rendered?
- |     |   |  |    |
|-----|---|--|----|
| Yes | 1 |  |    |
| No  | 2 |  | 51 |
- C.5 If “yes”, please state the source and amount received.

Source	Rand								
Total per year	R								

52-56

### Non-farm income .....○○○

- C.6 Apart from income derived from farming, does any one of the household have any other form of income which is also used for farming purposes?
- |     |   |  |    |
|-----|---|--|----|
| Yes | 1 |  |    |
| No  | 2 |  | 57 |
- C.7 If “yes”, please use the following scale to complete the table:

Scale	Code
R0 - R500	1
R5 001 - R10 000	2
R10 001 - R15 000	3
R15 000 - R20 000	4
R20 001 - R25 000	5
R25 000>	6

Member of household	Source of income (e.g. café, taxi, pension, rental income from house, land or natural veld, etc.)	Code	Amount (R)						
1.									
2.									
3.									
4.									
Total income			R						

58-63

- C.8 If “yes” at C.6, with what did you start?
- |          |   |  |    |
|----------|---|--|----|
| Farm     | 1 |  |    |
| Business | 2 |  |    |
| Job      | 3 |  | 64 |

## Labour .....○○○

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1-4

| | | | 4 |

### C.9 Family size at time of interview

Adults	Number				
Elders 55 years and older				5-6	
Middle-aged 35-54 years				7-8	
Young adults 15-34 years				9-10	
Children (own) and relatives who stay permanently in your home					
Older children (7-14 years)				11-12	
Younger children (6 and under)				13-14	
Total family size				15-16	

C.10 How many of your children and relatives work on your farm? | No. of people | | | 17-18

C.11 Do you employ permanent labour? | Yes | 1 | | | 19  
| No | 2 |

C.12 If “yes”, how many? | Labourers | | | 20-21

C.13 Do you employ seasonal or casual labour? | Yes | 1 | | | 22  
| No | 2 |

C.14 If “yes”, how many per year? | Labourers | | | 23-24

C.15 If “yes”, how many days per year? | Days | | | 25-26

## Capital – Credit .....○○○

C.16 Do you make use of any foreign capital? | Yes | 1 | | | 27  
| No | 2 |

C.17 If “yes”, name the source, type, interest rate and amount outstanding on 1/1/98.

Source (Commercial Bank/Co-op)	Type (Hire purchase/bond/ overdraft/production loan)	Interest rate (%)	Amount (R)						
<b>Formal sources</b>									
Commercial Bank									
Agricultural cooperative									

28-37

38-47

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Agricultural Bank of South Africa						48-57	
Agri-mark						58-67	
<b>Informal sources</b>							
Credit unions						68-77	
Credit clubs						78-87	
Family and friends						88-97	
Stokvels						98-107	
						1-4	
							6
C.18 Do you need credit?			Yes	1			
			No	2			5
C.19 Is credit available?			Yes	1			
			No	2			6
C.20 If "no", please state why not.							
Do not need extra money - have enough money of your own to buy inputs				1			7
Have no access to credit				2			8
The cost (interest) of money is too high				3			9
Bank does not want to lend me money due to insufficient security				4			10
Poor repayment ability of farm				5			11
Other (Specify):				6			12   13
				7			14   15
C.21 How do you buy the inputs for the sheep and/or goats? (feed licks, male breeding stock [sires], medicine, etc.) (Mark only one)							
Use only own funds				1			
Buy only on credit				2			
Combination of own funds and credit				3			16

## ***D. Risk management***

**Risk (Ho nka mathata)** .....○○○

D.1 Do you use remedies for parasites, diseases and/or sickness for sheep and/or goat?	Yes	1			17
	No	2			

**If “no”, complete D.2 and D.3 and go to question D.6. If “yes”, go to question D.4.**

D.2 Do you think that the use of sheep and/or goat remedies for parasites, diseases and/or sickness will increase your risk?	Yes	1			18
	No	2			

D.3 If “yes” at question D.2, why do you say so?

Specify, i.e. if there is a drought I will not be able to repay my debt		1			19
		2			20
		3			21
		4			22
		5			23
		6			24

D.4 If “yes” at D.1, did the adoption of sheep and/or goat remedies for parasites, diseases and/or sickness change your attitude towards risk?	Yes	1			25
	No	2			

D.5 If “yes” at D.4, in which way?

		1			26
		2			27
		3			28
		4			29
		5			30
		6			31
		7			32

D.6 If more definite information were available on the results of higher reproduction with the usage of sheep and/or goat remedies for parasites, diseases and/or sickness, would it have an influence on your attitude towards the risk involved in the usage of these remedies?	Yes	1			33
	No	2			

D.7 **Attitude towards risk:** Which one of the following situations will you choose in your farming operation?

Variety A will give you a profit of R10 000 in two out of ten years and in the other eight years R0 (High profit, high risk) Sehlahiswa sa A se tla ofa phaello ya R10 000 lemong tse pedi tsa tse leshome (phaello e hodi-mo monyet la wa ho lahlehalwa o moholo)	1		
Variety B will give you a profit of R3 000 in six out of ten years and in the other four years R0 (Medium profit, medium risk) Sehlahiswa sa B se tla ofa phaello ya R3 000 lemong tse tshelletseng tsa tse leshome (phaello e mahareng le monyetla wa tahlehelo o mahareng)	2		34
Variety C will give you a profit of R2 000 in eight out of ten years and in the other two years R0 (Low profit, low risk) Sehlahiswa sa C se tla ofa phaello ya R2 000 lemong tse robedi tsa tse leshome (phaello etlase le monyet la wa tahlehelo o tlase)	3		

## ***E. Livestock technologies***

E.1 Complete the following information.

Numbers	Cattle	Mutton sheep	Wool sheep	Boer goats	Angora goats	Pigs	Poultry	Other
Male stock								
Female								
Offspring								
Total								
Number weaned per year								
Weaning percentage (%)								
Numbers sold per year								

35-48

Income per year (1996)	Cattle	Mutton sheep	Wool sheep	Boer goats	Angora goats	Pigs	Poultry	Other
Meat sales								
Milk, wool, skins & hair								
Own consumption (meat)								
Own consumption (milk)								
Dung (manure) sold								
<b>Total income</b>								

Losses per year	Cattle	Mutton sheep	Wool sheep	Boer goats	Angora goats	Pigs	Poultry	Other	
Dead (older than one year)									49-64 
Dead (younger than one year)									
Total									
Stolen (older than one year)									65-80 
Stolen (younger than one year)									
Total									

Income per year (1997)	Cattle	Mutton sheep	Wool sheep	Boer goats	Angora goats	Pigs	Poultry	Other	
Meat sales									1-4         7
Milk, wool, skins & hair									
Own consumption (meat)									
Own consumption (milk)									
Dung (manure) sold									
Total income									

Losses per year	Cattle	Mutton sheep	Wool sheep	Boer goats	Angora goats	Pigs	Poultry	Other	
Dead (older than one year)									5-20 
Dead (younger than one year)									
Total									
Stolen (older than one year)									21-36 
Stolen (younger than one year)									
Total									

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E.2 Indicate what type of male breeding stock you use (Mark only one per livestock type. If more than one source is used, mark the major source.)								
	Mutton sheep	Wool sheep	Boer goats	Angora goats				
Borrow the neighbour's male stock								37-40
Any male stock the farmer can get hold of								41-44
Locally bred male (grade) stock								45-48
Registered bred male stock								49-52
Artificial insemination								53-56
Communal owned male stock								57-60
Own bred								61-64
Other (specify)								65-68
E.3 If you do not use registered or grade male stock (sires) give the reason why. (Mark as many as are applicable)					1-4			
								8
Male breeding stock are too expensive	1							5-6
Have no money (cash) available to buy male breeding stock	2							7-8
Cannot get credit to buy male breeding stock	3							9-10
Male breeding stock is not easily accessible	4							11-12
Have no transport to get the male breeding stock to my farm	5							13-14
The transport is too expensive to get the male breeding stock to my farm	6							15-16
Male breeding stock will not have a large enough effect on my reproduction levels to pay for the extra expenses	7							17-18
It will increase the production risk of my farm	8							19-20
It will increase the financial risk of my farm due to higher debt	9							21-22
Decent male breeding stock is not freely available	10							23-24
Other (specify)	11							25-26
	12							27-28
	13							29-30
E.4 Do you make use of mating seasons?					Yes	1		
					No	2		31
E.5 If "yes", indicate the mating season (Mark where applicable)								
	Mutton sheep	Wool sheep	Boer goats	Angora goats				
Summer								32-35
Autumn								36-39
Winter								40-43
Spring								44-47

E.6 Indicate the importance for keeping different types of livestock by allocating a mark from 1 to 4 with 1 as unimportant and 4 as very important.

	Mutton sheep	Wool sheep	Boer goats	Angora goats					
Cultural and religious purposes									48-51
Own consumption (milk & meat)									52-55
To reduce risk (diversification)									56-59
As an investment									60-63
Normal farming									64-67
Source of money in case of emergency									68-71
Other (specify)									72-75
									76-79
									80-83

1-4

E.7 Do you make use of veterinary surgeon services for sheep and goats?	Yes	1				
	No	2			5	

E.8 If "yes":

Only when sheep or goats become sick	1			
On a frequent basis	5			6

E.9 If veterinary surgeon services are used on a frequent basis, indicate how many times per year.

Once per year	1			
Twice per year	2			
Three times per year	3			
Four times per year	4			
Five times per year	5			
Six times per year	6			7

E.10 If you **do not** make use of veterinary surgeon services, please indicate as many reasons as applicable, why not.

Veterinary surgeon services are too expensive	1				8-9
Have no money (cash) available to afford veterinary surgeon services	2				10-11
Cannot get credit to make use of veterinary surgeon services	3				12-13
The veterinary surgeon services are not easily accessible	4				14-15
Have no transport to get the sick livestock to veterinary surgeon services	5				16-17
The veterinary surgeon services will not have a large enough effect on my reproduction levels to pay for the extra expenses	6				18-19

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It will increase the production risk of my farm	7				20-21
It will increase the financial risk of my farm due to higher debt	8				22-23
Am involved in organic farming	9				24-25
Cultural reasons	10				26-27
Other (specify)	11				28-29
	12				30-31
	13				32-33

E.11 Do you make use of external parasite (ticks), internal parasite, disease control vaccines or general medication?	Yes	1		34
	No	2		

E.12 If “yes”, indicate the name of the remedy as well as the number of times per year in the applicable square.

Type of medication	Name of remedy	Type of animal			
		Mutton sheep	Wool sheep	Boer goats	Angora goats
External parasite control (Ticks) (e.g. Deadline)					
1.					
2.					
3.					
4.					
Internal parasite control (e.g. Ranide, Valbasen)					
1.					
2.					
3.					
4.					
Disease vaccination control (e.g. Pulpy Kidney, Brucelosis. etc.)					
1.					
2.					
3.					
4.					
General medication (e.g. Terramycin, Eye powder, etc.)					
1.					
2.					
3.					
4.					
Traditional remedies (e.g. Natural plants)					
1.					
2.					
3.					
4.					

E.13 If you **do not** use EXTERNAL PARASITE REMEDIES (for ticks) please indicate as many reasons as applicable, why not.

The remedies are too expensive	1			35-36
Have no money (cash) available to buy the remedies	2			37-38
Cannot get credit to buy the remedies	3			39-40
The remedies are not easily accessible	4			41-42
Have no transport to get the remedies to my farm	5			43-44
The remedies will not have a large enough effect on my reproduction levels to pay for the extra expenses	6			45-46
It will increase the production risk of my farm	7			47-48
It will increase the financial risk of my farm due to higher debt	8			49-50
Am involved in organic farming	9			51-52
Cultural reasons	10			53-54
Difficult to use and handle	11			55-56
The remedies are not freely available	12			57-58
Do not know how to use remedy	13			59-60
Do not know there is a remedy	14			61-62
Other (specify):	15			63-64

E.14 If you **do not** use INTERNAL PARASITE REMEDIES, please indicate as many reasons as applicable, why not.

The remedies are too expensive	1			65-66
Have no money (cash) available to buy the remedies	2			67-68
Cannot get credit to buy the remedies	3			69-70
The remedies are not easily accessible	4			71-72
Have no transport to get the remedies to my farm	5			73-74
The remedies will not have a large enough effect on my reproduction levels to pay for the extra expenses	6			75-76
It will increase the production risk of my farm	7			77-78
It will increase the financial risk of my farm due to higher debt	8			79-80
Am involved in organic farming	9			81-82
Cultural reasons	10			83-84
Difficult to use and handle	11			85-86
The remedies are not freely available	12			87-88
Do not know how to use remedy	13			89-90
Do not know there is a remedy	14			91-92
Other (specify):	15			93-94

		For office use only			
		1-5			
					1 0
E.15 If you <b>do not</b> use DISEASE VACCINES, please indicate as many reasons as applicable, why not.					
The remedies are too expensive	1				6-7
Have no money (cash) available to buy the remedies	2				8-9
Cannot get credit to buy the remedies	3				10-11
The remedies are not easily accessible	4				12-13
Have no transport to get the remedies to my farm	5				14-15
The remedies will not have a large enough effect on my reproduction levels to pay for the extra expenses	6				16-17
It will increase the production risk of my farm	7				18-19
It will increase the financial risk of my farm due to higher debt	8				20-21
Am involved in organic farming	9				22-23
Cultural reasons	10				24-25
Difficult to use and handle	11				26-27
The remedies are not freely available	12				28-29
Do not know how to use remedy	13				30-31
Do not know there is a remedy	14				32-33
Other (specify):	15				34-35
E.16 If you <b>do not</b> use GENERAL MEDICATION REMEDIES, please indicate as many reasons as applicable, why not.					
The remedies are too expensive	1				36-37
Have no money (cash) available to buy the remedies	2				38-39
Cannot get credit to buy the remedies	3				40-41
The remedies are not easily accessible	4				42-43
Have no transport to get the remedies to my farm	5				44-45
The remedies will not have a large enough effect on my reproduction levels to pay for the extra expenses	6				46-47
It will increase the production risk of my farm	7				48-48
It will increase the financial risk of my farm due to higher debt	8				50-51
Am involved in organic farming	9				52-53
Cultural reasons	10				54-55
Difficult to use and handle	11				56-57
The remedies are not freely available	12				58-59
Do not know how to use remedy	13				60-61
Do not know there is a remedy	14				62-63
Other (specify):	15				64-65

## ***F. Information and training sources***

*If an extension officer accompanies you, he must leave you and the farmer alone at this stage. (Arrange with the extension officer before the visit to leave you and the farmer while you are busy with the livestock information.)*

1-5

| | | | 1 | 1 |

### **Training – Informal (short courses in agriculture) .....○○○**

F.1 Did you receive any training on the technologies you adopted on your farm?

Yes

1

No

2

6

### **Information .....○○○**

F.2 What source(s) of information do you use or approach when you have to make the following decisions, acquire information or need training? (Mark as many as are applicable)

	Technical decisions	Financial decisions	Marketing decisions	Information on new technologies	Training						
Radio											7-11
Television											12-16
Extension publications (all leaflets, periodicals)											17-21
Co-farmers – neighbours											22-26
Department of Agriculture – Extension officers											27-31
Cooperative – Extension officers											32-36
No one – use own physical or technical records											37-41
No one – use own financial records											42-46
Bank manager											47-51
Supplier of inputs like the cooperative manager											52-56
Sell to the buyer who is the closest to my farm – do not consider different markets											57-61
Market agents											62-66
Read in the press (newspapers, magazines, etc.)											67-71
Veterinary surgeon											72-76
Chief											72-81

						For office use only					
Chair person sheering association											82-86
Other (specify):											87-91
											92-96
											97-101
											102-106
											107-111
						1-5					
									1	2	
F.3 Do you need any extension advice?						Yes	1				
						No	2	6			
F.4 If “yes”, is one of the following extension officers available when you need them?											
						Yes	No				
Government extension officers						1	0	7			
Cooperative extension officers						1	0	8			
Input suppliers extension officer companies (seed, fertiliser, chemicals, feed, animal medicine, etc.)						1	0	9			
F.5 How many times have you been visited by an extension officer this past season?											
Government extension officers							Times	10-11			
Cooperative extension officers							Times	12-13			
Input suppliers extension officers							Times	14-15			
TOTAL							Times	16-17			
F.6 Do you think the extension officer has enough knowledge to supply you with the necessary information you need on your technical and financial management needs?											
						Technical		Financial			
						Yes	No	Yes	No		
Government extension officers						1	0	1	0	18-19	
Cooperative extension officers						1	0	1	0	20-21	
Input suppliers extension officer companies (seed, fertiliser, chemicals, feed, animal medicine, etc.)						1	0	1	0	22-23	

## ***G. Institutions***

G.1 Indicate which of the following institutions' services are freely and easily accessible to you, the farmer.

Government extension system	1			24
Cooperative extension system	2			25
Agricultural research	3			26
Input suppliers (businesses where farmer can buy seed, fertiliser, fuel, etc.)	4			27
Output markets (institutions like the co-op where you can market your outputs)	5			28
Banking services	6			29
Other (specify)	7		30	31
			32	

## ***H. Infrastructure***

H.1 Indicate which of the following infrastructures are freely and easily accessible or available to you, the farmer.

Roads	1			33
Transport	2			34
Telephone	3			35
Electricity	4			36
Local markets	5			37
National markets	6			38
International markets	7			39
Other (specify)	8		40	41