CONFIDENTIAL



Central Statistical Agency of Ethiopia LAND AND SOIL EXPERIMENTAL RESEARCH (LASER) 2013 Post-Planting Questionnaire



HOUSEHOLD IDENTIFICATION			
	CODE	NAME	
1. REGION			 GPS COORDINATES OF THE DWELLING:
2. ZONE			
3. WOREDA			A. LATITIUDE (N)
4. KEBELE			N' [] . []
5. EA			
6. CLUSTER ID			
7. HOUSEHOLD ID (FROM LIST)			B. LONGITUDE (E)
8. NAME OF HOUSEHOLD HEAD:			[] ° [] . [] 'E
9. HOUSEHOLD HEAD PHONE NUMBER:			
INTERVIEW DETAILS			•
11. ENUMERATOR ID:		12. ENUMERATOR NAME:	
13. SUPERVISOR ID:		14. SUPERVISOR NAME:	
15. PRIMARY INTERVIEW LANGUAGE:	Amharic1 Oromifa2	Other, specify3	
16. DATE OF INTERVIEW (EC) [DD/MM/YY]	/		
17. TIME INTERVIEW STARTED (Ethiopian):	:	18. TIME INTERVIEW ENDED:	
INTERVIEW NOTES			

Cover Page 1

PP SECTION 1: HOUSEHOLD MEMBER ROSTER

		COMPLE	TE QUESTIO	NS 1-5 FOR	ALL PERSONS FIRST								
	1.	2.	3.		4.	5.	6.	7.	8.	9.	10.	11.	
I N D I V I D U A L I D	LIST HOUSEHOLD HEAD ON LINE 1. MAKE A COMPLETE LIST OF ALL INDIVIDUALS WHO NORMALLY LIVE AND EAT THEIR MEALS TOGETHER IN THIS HOUSEHOLD, STARTING WITH THE HEAD OF HOUSEHOLD. (CONFIRM THAT HOUSEHOLD HEAD HERE IS SAME AS HOUSEHOLD HEAD LISTED ON COVER.)	M1 F2	In what mont was [NAME] I PUT "9999" II KNOW YEAR, DON'T KNOW	born? F DON'T AND "99" IF	How old is [NAME]? IF DOESN'T KNOW, USE YEAR OF BIRTH TO CALCULATE AGE. IF AGE IS LESS THAN 1, ENTER "O". IF NECESSARY, USE THE HISTORICAL EVENTS LISTED IN THE MANUAL TO ASSIST THE RESPONDENT. CHECK THAT AGE IN QUESTION 4 AND YEAR OF BIRTH IN QUESTION 3 ARE CONSISTENT.	What is [NAME]'s relationship to the head of household? HEAD	In what region was [NAME] born? TIGRAY	For how many cumulative months during the last 12 months has [NAME] been away from this household?	Has [NAME] faced any health problems in the last 2 months? YES1 NO2 (▶10)	What was the sickness or injury faced by [NAME]? MALARIA1 DIARRHEA2 INJURY3 DENTAL4 OPTHLAMIC5 SKIN DISEASE6 EAR/NOSE/THROAT.7 TUBERCULOSIS8 OTHER (Specify)9	IS RESPONDENT 5 YEARS OR OLDER? YES1 NO2 (> Next row)	Can [NAME] read in any language? YES.1 NO2	- 20->-020
1													T 1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12

Page 2

	12.	13.	14.	15.	16.	17.	18.	
	Can [NAME] write in any language?	Did [NAME] ever go to school?	What is the highest grade completed by [NAME]? REFER TO EDUCATION CODES IN MANUAL	IS RESPONDENT 10 YEARS OR OLDER?	What was [NAME]'s main industry or trade for the past 12 months? AGRICULTURE/LIVESTOCK1 MINING	What is [NAME]'s main religion? ORTHODOX1 CATHOLIC2 PROTESTANT3 MUSLEM4 TRADITIONAL.5 PAGAN6 WAKIFATA7 OTHER (SPECIFY)8	What is [NAME]'s marital status? NEVER MARRIED1 (MARRIED (MONOGAMOUS)2 MARRIED (POLYGAMOUS)3 DIVORCED4 SEPERATED5 WIDOWED6	N D V D U A L D
	YES.1 NO2	YES.1 NO2 (▶15)	CODE	YES1 NO2 (▶ Next row)	HOUSEHOLD LABOR -UNPAID.14 HOUSEHOLD LABOR -PAID15 JOB SEEKERS			
1								1
2								2
3								3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12

PP1. HH Roster Page 3

PP SECTION 2: ASSETS

		1.	2.
		How many [ITEM] does	What is the current market value
ı		your household own?	of this item?
T E		IF NONE RECORD 0 AND	
М			F MORE THAN ONE ITEM, ENTER THE AVERAGE
I D		E:	STIMATED VALUE FOR ONE
Ш	ITEM NAME	NUMBER OF ITEMS	BIRR
1	Kerosene stove		
2	Butane Gas stove		
3	Electric stove		
4	Blanket/Gabi		
5	Mattress and/or Bed		
6	Wrist watch/clock		
7	Fixed line telephone		
8	Mobile Telephone		
9	Radio/ tape recorder		
10	Television		
11	CD/VCD/DVD/Video Deck		
12	Satelite Dish		
13	Sofa set		
14	Bicycle		
15	Motor cycle		
16	Cart (Hand pushed)		
17	Cart (animal drawn)		
18	Sewing machine		
19	Weaving equipment		
20	Mitad-Electric		
21	Energy saving stove (lakech, mirt etc)		
22	Refrigerator		
23	Private car		
24	Jewels (Gold and silver)		
25	Wardrobe		
26	Shelf for storing goods		
27	Biogas stove (pit)		
28	Water storage pit		
29	Mofer and Kember		
30	Sickle (Machid)		
31	Axe (Gejera)		
32	Pick Axe (Geso)		
33	Plough (Traditional)		
34	Plough (Modern)		
35	Water Pump		
<u> </u>			

Page 4

PP SECTION 3: LIVESTOCK

L		1.
I V	LIVESTOCK	How many [LIVESTOCK] does your
E		household own?
S T		
o c		IF NONE RECORD "0"
к		AND ► (NEXT ITEM)
С		
О		
D E		TOTAL
01	CATTLE	
02	SHEEP	
03	GOATS	
04	HORSES	
05	DONKEYS	
06	MULES	
07	CAMELS	
08	LAYING HENS	
09	NON-LAYING HENS	
10	соскѕ	
11	COCKERELS	
12	PULLETS	
13	CHICKS	
14	BEEHIVES	

PP3. Livestock Page 5

PP SECTION 4: PARCEL ROSTER

THE RESPONDENT SHOULD BE THE BEST INFORMED.

P A R C E L	·	2. RECORD THE ID OF THE RESPONDENT.	acquire this [PARCEL]? GRANTED BY LOCAL LEADERS		decide wheth [PARCEL] or u	er to sell this se it as	•			9. What is th [PARCEL] t			10. What is the number of fields on this [PARCEL]?	PARCEL
1 1 2	List all parcels of land owned or cultivated (both cultivated and non-cultivated)	ROSTER ID	MOVED IN WITHOUT PERMISSION5 OTHER(SPECIFY).6	Yes1 No2 (▶Q6)	HH ROSTER ID CODE #1		Yes1 No2(▶Q8)	APRIL. 8 MAY 9 JUNE 10 JULY 11 AUGUST 12 PUAGME 13 MONTH 4-DIGIT YEAR	4-DIGIT YEAR	HOME KM	ROAD KM	MARKET KM	NUMBER	1 1 2
3 4 5 6 7														3 4 5 6 7
9 10 11 12														9 10 11 12

PP4. Parcel Roster Page 6

PP SECTION 5: FIELD ROSTER

THE RESPONDENT SHOULD BE THE BEST INFORMED.

		FIELD ROSTER											
		1.	2.	3.				4.	5.	6.	7.	8.	
P A R C E L	_	LIST ALL FIELDS FOR ALL PARCELS IN THE HOUSEHOLD	RECORD THE ID OF THE RESPONDENT.	What is the area of [F CODES FOR HECTARE. SQUARE M. TIMAD BOY	R UNI	T: 1 2 3		THE UNIT IS THE UNIT IN WHICH THE FARMER	During this season, what is the status of this [FIELD]? CULTIVATED1 PASTURE2 FALLOW3 FOREST4 LAND PREPARED FOR	Who in the household makes primary decisions concerning crops to be planted, input use, and the timing of cropping activities on this [FIELD]?	household members that the primary decision maker consults regarding crop choice, input use, and timing of	Who are the ot mebers consult primary decision the [FIELD]?	ted by the on maker on
L I D	I	(BOTH CULTIVATED AND NON- CULTIVATED)	ROSTER ID	SENGA KERT OTHER (SPE	CIFY)	6	TINU	REPORTED THE FIELD AREA. IF DON"T KNOW, ENTER "9999"	BELG SEASON5 RENTED OUT6 GIVEN OUT FOR FREE7 HOUSE8 OTHER (SPECIFY)9 FOR CODES 2-9, (*Next field)	IF FIELD IS RENTED/GIVEN OUT, ASK ABOUT THE PERSON WHO DECIDES TO RENT/ GIVE OUT. PRIMARY DECISION MAKER ID	cropping activities on this [FIELD]? YES1 NO2 (▶9)	ROSTER ID CODE #1	RIDS
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PARCEL ID	FIE	9. What is the cropping pattern on this [FIELD]? PURESTAND1 MIXED CROP2	10. Is maize currently grown on [FIELD]?	11. Is crop rotation practiced on [FIELD]?	times was [FIELD] tilled in this	been	fallow anytime during the past	15. How long ago was [FIELD] left fallow? NUMBER OF YEARS THAT HAVE PASSED SINCE THE BEGINNING OF THE MOST RECENT FALLOW PERIOD	duration of	17. Is [FIELD] irrigated during the current agricultural season?	18. What is the source of water used for irrigation on [FIELD]? RIVER	P A R C E L	ELDID
			YES1 NO2	YES1 NO2		YES1 NO2	YES1 NO2 (▶15)	YEARS	YEARS	YES1 NO2 (►Next)			
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PP SECTION 6: FIELD DETAILS

THIS SECTION TO BE COMPLETED FOR ALL CULTIVATED FIELDS. THE RESPONDENT SHOULD BE THE BEST INFORMED.

			SLOPE		SOIL						
PARCEL ID	F I E L D I D	2. RESPONDENT ID	[FIELD]?	diagram best represents	5. What is the predominant soil type of this [FIELD]? READ ANSWERS SANDY	ANSWERS	quality of this [FIELD]? READ ANSWERS GOOD 1 FAIR 2 POOR 3	8. How do you know the soil quality of [FIELD]? READ ANSWERS CIENTIFICALLY TESTED	9. What is the texture of the soil on this [FIELD]? READ ANSWERS VERY FINE	P A R C E L I D	F I E L D I D

Г							INORGANIC FER	TILIZER						$\overline{}$	\neg
		10.	11.	12.	13.	14.		16.	17.	18.	19.	20.	21.	\Box	П
		Were there any	What is the cause of these	Is [FIELD]	What is the way of	Is fertilizer used on	Did you use any	What was the	Did you purchase	How much of the	What was the	Did you use any	What was the		1 1
		problems with	erosion problems?	prevented from	preventing erosion on	[FIELD]?	UREA on [FIELD]	quantity of UREA	or purchase on	UREA used on	value of the UREA		quantity of DAP		1 1
		erosion on	,	erosion?	[FIELD]?		in this agricultural	used on [FIELD]	credit any of the	[FIELD] was	that you purchased	this agricultural	used on [FIELD]	'	
Р		[FIELD] this			. ,		-	in this		1	or purchased on	season?	in this	Р	1 1
	F	agricultural						agricultural	[FIELD] this	purchased on credit	credit for this		agricultural	A	F
A R C		season?	WIND1 RAIN2			HEMICAL OR ORGANIC,		season?	agricultural	during this	[FIELD] during this		season?	A R C	Ė
E	L D		ANIMALS3		AFFORESTATION3	MANURE MANURE	J		season?	agricultural season?	agricultural			E	L D
L			CULTIVATION WHICH DOES		PLOUGH ALONG THE CONTOUR4						season?			L	١١
1	I D		NOT COMPLY		OTHER (SPECIFY)5					RECORD TOTAL QUANTITY,				1	I D
D	١٠		WITH SOIL CONSERVATION4							REGARDLESS OF				D	٦
			OTHER, SPECIFY5							SOURCE					1 1
		YES1		YES1		YES1	YES1		YES1			YES1			1 1
		NO2 (►12)		NO2 (►14)		NO2 (►34)	NO2 (▶20)	KG	NO2 (►20)	KG	BIRR	NO2 (▶25)	KG		Ш
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\vdash	T	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32.	33.	H	Т
			How much of the				Did you purchase	-	What was the value		What was the	Did you use any	What was the	1	
		· ·	DAP used on					l		manure on	quantity of	compost on	quantity of	1	
			[FIELD] was		fertilizer on	other inorganic		"	inorganic fertilizer		manure used on	1 '	compost used on	1	
		credit any of the	, ,		[FIELD] in this	_		l	that you purchased		[FIELD] in this	agricultural	[FIELD] in this		
P			l'	I'	-			l		season?		season?		P	
A R	Ī		purchased on		agricultural			l'	l '	seasonr	agricultural	seasonr	agricultural	A R	Ī
С	15		credit during this		season?	1 0	1, ,	purchased on credit			season?		season?	c	E L D
E	D		agricultural	[FIELD] during			"		[FIELD] during this					E	D
1	Ι.	season?	season?	this agricultural			season?	agricultural season?	-					1 -	١.
I D	Ď		RECORD TOTAL	season?				RECORD TOTAL	season?					I	Ď
ľ			QUANTITY, REGARDLESS OF					QUANTITY,						ľ	
			SOURCE					REGARDLESS OF SOURCE						1	
		YES1			YES1		YES1			YES1		YES1		1	
		NO2 (►25)	KG	BIRR	NO2 (▶30)	KG	NO2 (▶30)	KG	BIRR	NO2 (▶32)	KG	NO2 (▶34)	KG	辶	丄
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		PRE-HARVES	T LABOR																
P A R C E L I D	F-E-D - D	RECORD THE ID IF NO ONE ENG IF LESS THAN 4 IF MORE THAN How many wee During those w	O CODES FRO GAGED RECO HH MEMBE FOUR MEM eks did [NAM eeks, appro	DM THE HH I IRD ["0"] IN RS ENGAGE BERS ENGAI 1E] work? ximately ho	ROSTER IN T ALL COLUMI D IN THE AB GED , USE AI w many days	HE COLUMN FOINS DESIGNATED OVE MENTIONE NOTHER QUESTI S did [NAME] wo	R HH ROSTE FOR "ROSTI D ACTIVITIE ONNAIRE.	R ID. ER ID" . S, RECORD [ities such as land				eding and fertilizi	ng.			P A R C E L I D	F I E L D
١		During those da	ays, approxi 1ST ME		many hours	did [NAME]wor	2ND ME	MBER			3RD ME	MBER			4TH ME	MBER		┨	
		HH ROSTER ID CODE #1	WEEKS	DAYS / WEEK	HOURS / DAY	HH ROSTER ID CODE #2	WEEKS	DAYS / WEEK	HOURS / DAY	HH ROSTER ID CODE #3	WEEKS	DAYS / WEEK	HOURS /	HH ROSTER ID CODE #4	WEEKS	DAYS/ WEEK	HOURS /	1	
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P A R C E L I D	F - E -	For the current season, how many days did your household hire men, women and children for activities such as land preparation, planting, ridging, weeding and fertilizing, on this [FIELD]? DO NOT INCLUDE ANY HARVEST/THRESHING ACTIVITIES IF NONE HIRED: RECORD 0 FOR NUMBER OF MEN/WOMEN/CHILDREN (AND LEAVE DAYS AND WAGE BLANK) IF PAYMENT IN KIND, ESTIMATE VALUE IN BIRR										36. For the current season, how many days did men, women or children (<15 years of age) from other households work on this [FIELD] for activities such as land preparation, planting, ridging, weeding and fertilizing, free of charge, as exchange labourers or to assist for nothing in return? IF NONE: RECORD ZERO FOR NUMBER OF MEN/WOMEN/CHILDREN (AND LEAVE DAYS BLANK)				
		MEN			WOMEN			CHILDREN (UNDER 15 YEARS)			MEN		WOMEN		CHILDREN	(<15 YEARS)
		NUMBER OF MEN	TOTAL PERSON DAYS	TOTAL DAILY WAGE PAID (BIRR)	NUMBER OF WOMEN	TOTAL PERSON DAYS	TOTAL DAILY WAGE PAID (BIRR)	NUMBER OF CHILDREN	TOTAL PERSON DAYS	TOTAL DAILY WAGE PAID (BIRR)	NUMBER OF MEN	TOTAL PERSON DAYS	NUMBER OF WOMEN	TOTAL PERSON DAYS	NUMBER OF CHILDREN	TOTAL PERSON DAYS

PP SECTION 7: CROP DETAILS

THIS SECTION TO BE COMPLETED FOR ALL CULTIVATED FIELDS. THE RESPONDENT SHOULD BE THE BEST INFORMED.

			CROP ROSTER						PESTICIDES/HERBIC	IDES		
P A R C E L I D	A F C R C R C C C C C C		1. What crop(s) are planted on [FIELD] in this		2. When do you expect to harvest [CROP]? MONTH AND YEAR IN EC. IF TREEE/ PERMANENT CROP, ENTER "99"		Was the area planted with [CROP] on this [FIELD] pure stand or mixed?	how much of the	precaution measure	pesticide on [CROP]	on [FIELD] in this	8. Did you use any fungicide on [CROP] on [FIELD] in this agricultural season?
			CROP NAME	CROP CODE	MONTH	4-DIGIT YEAR		%	YES1 NO2 (▶9)	YES1 NO2	YES1 NO2	YES1 NO2

		CROP DAMAGE			SEEDS			
		9.	10.	11.	12.	13.	14.	
		Was [CROP]	What is the main cause of the	What is the	What type of Seed /	When did you plant the seeds for the	What was the	total
		damaged on this	damage of [CROP]?	percentage share	Seedling was used for	[CROP] on this [FIELD] during the	quantity of se	ed used for
P F I E L L D I D	C R O P	field?	Too much rain	of damage for [CROP] on this field?	[CROP] on this [FIELD]? TRADITIONAL1 IMPROVED2 IMPROVED, RECYCLED3 TREE CROP NOT PLANTED IN THIS	[CURRENT AGRICULTURE SEASON]? CODES FOR MONTH: SSPTEMBER. 1 OCTOBER 2 NOVEMBER 3 DECEMBER 4 JANUARY 5 FEBRUARY 6 MARCH 7 APRIL 8 MAY 9 JUNE 10	[CROP] on [FIELD] in this agricultural season?	
			Depletion of soil		SEASON4	JULY11		
		YES1 NO2 (▶12)	fertility13 Security problems14 Bad seeds15	%	(► Next field)	AUGUST12 PAGUME13 MONTH EC YEAR	KILO (KG)	GRAMS
			Other (Specify)16			HONTH HE TERM	+	Grano
								
<u> </u>								
\vdash								

PP SECTION 8: FIELD SELECTION

THIS SECTION IS USED TO SELECT 2 FIELDS FOR AREA MEASUREMENT AND SOIL TESTING. IF THE HH GROWS MAIZE, ONE OF THE MAIZE FIELDS WILL BE SELECTED FOR CROP-CUTTING.

REFER TO SECTION PP5 TO LIST ALL CULTIVATED FIELDS IN THE HOUSEHOLD.

Question 6 to be answered <u>after</u> questions 1-5 for all fields

	ROSTER		CROP-CUTTING ELI	GIBILITY	SELECTION			
SERIAL NUMBER	1. PARCEL ID	2. FIELD ID	3. IS MAIZE GROWN ON THIS FIELD? Yes1 No2 (▶○6)	4. IS THIS FIELD PURESTAND? Yes1 No2 (▶Q6)	5. FIELD IS ELIGIBLE FOR CROP- CUTTTING, MARK WITH "1"	6. IS FIELD SELECTED FOR TESTING? REFER TO RANDOM NUMBER TABLE #1 FOR THIS HOUSEHOLD. Yes1 No2		
		1	1	, ,				
2		1	_					
3		1						
4						_		
5								
6								
7								
8		+						
9								
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23								
24								

PP SECTION 9.1 IN-FIELD MEASUREMENT

SELECTED FIELD #1										
1. PARCEL ID [2. FIELD II								
AREA MEASUREMENT:	COMPASS AND T	APE					AREA	MEASUREMENT: (GARMIN GPS	
3. TIME STARTED: :							12. TIM	ME STARTED:	:	
4. COMPUTED PERIME	TER (m)	5. COMPU	TED AREA (m ₂)	6. CL	CLOSING ERROR			S ACCURACY (ME	TRES)	
COMPLETE Q7-Q9 FOR THE FINAL MEASUREMENT (CLOSING ER							1			
7. POINT			SS BEARING (°) 9. DISTANCE IN METRES					14. NUMBER OF SATELLITES		
FROM	TO F	RONT BACK								
							15. ELI	EVATION (METRES		
							16. GP	S AREA (SQUARE	METRES)	
							17. GP	17. GPS PERIMETER (METRES) 18. FIELD GPS COORDINATES [] ° [] · [] 'N [_] ° [_] · [] 'E		
] [
							NO PI HI 20. WE CLEA MOST PART	EE COVER DNE1 ARTIAL.2 SAVY3 EATHER CONDITION R/SUNNY	1 2 3	
10. How many times was	s the field measured	<u> </u>		11. TIME END	DED:	:	COMP RAIN	LETELY CLOUDY Y	5	
ALTERNATE MEASUREMEN	T DEVICE									
22. Were you given an altern device for area measurement?	24. Plot coordi	24. Plot coordinates with alternate device			rement with a	alternate	26. SLOPE:	27. Was this field selected for crop-cutting?		
YES1 NO2 (▶26) SECONDS		N' [] · [] ° [] "N			ARE SQ. ME		RIMETER ETRES	DEGREES	YES1 NO2 (▶34)	
ODOD OUTTING										
CROP CUTTING	TED CORNED:				20 SHOI	RT SIDE RE/	ARING.			
28. RANDOMLY SELECTED CORNER: []					29. SHORT SIDE BEARING:					
30. {LONG SIDE LENG]	ΓΗ (METERS):				31. SHO	RT SIDE LEN	IGTH (MET	ERS):		
32. { LONG SIDE RANDOM NUMBER:						33. SHORT SIDE RANDOM NUMBER:				

PP SECTION 9.1 IN-FIELD MEASUREMENT (continued)

SELECTED FIELD #1
SOIL SAMPLING
DATE OF SOIL COLLECTION (EC):
34. TIME STARTED: : : : : : : : : : : : : : : : : : :
36. ROCK/STONE/GRAVEL COVER (%): □ < 5% □ 5-40% □ > 40%
37. RIBBON SIZE (mm) a. TOP SOIL (0-20 cm) Ribbon: mm
b. SUB SOIL (20-50 cm) Ribbon mm
38. TEXTURE
a. TOP SOIL (0-20 cm):
b. SUB SOIL (20-50 cm): □ Smooth □ Gritty □ Neither
39. What are the dominant tree /shrub species? (1) (2)
40. TIME COMPLETED: :

PP SECTION 9.2 IN-FIELD MEASUREMENT

SELECTED FIELD #2										
1. PARCEL ID [2. FIELD II	D []							
AREA MEASUREMENT:	COMPASS AND T	APE					AREA	MEASUREMENT:	GARMIN GPS	
3. TIME STARTED: :							12. TIM	IE STARTED:	:	
4. COMPUTED PERIME	5. COMPU	JTED AREA (m ₂)	OSING ER	0.4	13. GP	S ACCURACY (ME	TRES)			
COMPLETE Q7-Q9 FOR THE FINAL MEASUREMENT (CLOSING ERF							1			
7. POINT			BEARING (°)		ANCE IN M	ETRES	14. NUMBER OF SATELLITES			
FROM	TO F	RONT BACK								
							15. ELI	EVATION (METRES		
							16. GP	S AREA (SQUARE	METRES)	
							17. GP	17. GPS PERIMETER (METRES) 18. FIELD GPS COORDINATES [] ° [] · [] 'N [_] ° [_] · [] 'E		
							20. WE CLEA MOST PART MOST	EE COVER DNE1 ARTIAL2 SAVY3 AATHER CONDITION R/SUNNY LY CLEAR LY CLOUDY LLY CLOUDY LETELY CLOUDY LETELY CLOUDY LETELY CLOUDY	1 2 3 4	
10. How many times was	the field measured	<u> </u>		11. TIME END	DED:	:	RAIN	Y ME COMPLETED:		
ALTERNATE MEASUREMEN	T DEVICE									
22. Were you given an altern device for area measurement?	24. Plot coordi	24. Plot coordinates with alternate device			25. Measurement with a device.		26. SLOPE:	27. Was this field selected for crop-cutting?		
YES1 NO2 (▶26) SECONDS		N' [] · [] ° [] "N			ARE		RIMETER	DEGREES	YES1 NO2 (▶34)	
ODOD OUTTING										
CROP CUTTING 28 RANDOMLY SELECT	TED CORNER:				29 SHO	RT SIDE REA	ARING:			
28. RANDOMLY SELECTED CORNER: []					29. SHORT SIDE BEARING:					
30. {LONG SIDE LENGT	ΓΗ (METERS):				31. SHO	RT SIDE LEN	NGTH (MET	ERS):	_	
32. { LONG SIDE RANDOM NUMBER:						33. SHORT SIDE RANDOM NUMBER:				

PP SECTION 9.2 IN-FIELD MEASUREMENT (continued)

SELECTED FIELD #2
SOIL SAMPLING
DATE OF SOIL COLLECTION (EC):
34. TIME STARTED: : : : : : : : : : : : : : : : : : :
36. ROCK/STONE/GRAVEL COVER (%): □ < 5% □ 5-40% □ > 40%
37. RIBBON SIZE (mm) a. TOP SOIL (0-20 cm) Ribbon: mm
b. SUB SOIL (20-50 cm) Ribbon mm
38. TEXTURE
a. TOP SOIL (0-20 cm):
b. SUB SOIL (20-50 cm): □ Smooth □ Gritty □ Neither
39. What are the dominant tree /shrub species? (1) (2)
40. TIME COMPLETED: :