	<b>A</b>	I_		
	Question	Response		
	PERSON ADMINISTERING THE QUESTIONNAIRE		_  ID	
P2	PRIMARY CULTIVATOR GADCO ID NUMBER	<u> </u>		
P3	PRIMARY CULTIVATOR RESPONDENT ID		-	
P4	PRIMARY CULTIVATOR NAME	First	Last	
	How many parcels does [PRIMARY CULTIVATOR] currently cultivate			
	that are part of the Kpong/ Weta irrigation scheme, including parcels			
	currently left fallow? ENUMERATOR: THIS QUESTION MUST BE	1 1	PARCELS	
	ADMINISTERED TO THE PRIMARY CULTIVATOR DIRECTLY	''	171110220	
	ABIMINOTERED TO THE PRIMITION OF BIRESTET			
	Is [PRIMARY CULTIVATOR] the farm manager? [ENUMERATOR: THE			
	PRIMARY CULTIVATOR IS CONSIDERED THE FARM MANAGER IF			
	THEY HAVE THE MOST KNOWLEDGE REGARDING THE			
	QUANTITY, TIMING, AND COST OF CHEMICAL, LABOR, AND			
	MECHANIZED INPUTS APPLIED TO THE PARCELS]	1=YES >> P7	2=NO	
	MECHANIZED INPUTS APPLIED TO THE PARCELS			
	If no, what is the name of the farm manager?	NAME		
	What is the farm manager's telephone number?			
D7	DID THE RESPONDENT (FARM MANAGER) CONSENT TO	1= YES>>P8	2= NO	
F/	INTERVIEW?	I= 1E3>>F8	2-110	
P7a	IF NO, STATE REASON FOR REFUSAL (after, skip to end of interview)	>> SKIP TO END OF		
_		INTERVIEW		
P8	PHOTOGRAPH OF RESPONDENT			
P9	DATE OF INTERVIEW			
D40	START TIME OF INTERVIEW (24HRS)	Recorded in Background		
P10				
	[FOR TREATMENT ONLY] How much did you receive IN TOTAL from			
	GADCO for rice produce harvested from irrigation scheme parcels			
	during the 2013 MINOR SEASON? [RECORD AMOUNT RECEIVED			
	FOR PRODUCE FROM ALL IRRIGATION SCHEME PARCELS]	GHC		
	LIST ALL IRRIGATION SCHEME PARCELS THAT ARE CURRENTLY			
	CULTIVATED BY [PRIMARY CULTIVATOR] AS WELL AS ANY			
	IRRIGATION SCHEME PARCELS THAT APPEAR ON THE BASELINE			
	PARCEL ROSTER, BUT ARE NO LONGER CULTIVATED.			
	TARGLE ROOTER, BOT ARE NO LONGER ODE TWATED.		BASELINE PARCEL ID	
P11	ENUMERATOR: IF NEW PARCEL, BE SURE TO ASSIGN A NEW		_  BASELINE PARCEL ID	
	PARCEL ID NUMBER [FOR EXAMPLE, "NP1", "NP2", etc.]		_  BASELINE PARCEL ID	
	TANCEL ID NOMBER [FOR EXAMPLE, 141 1, 141 2, 500.]			
	LIST THE PARCEL ID FOR THE PARCEL FOR WHICH YOU ARE			
	ABOUT TO ADMINISTER QUESTIONS P13a-86	l	LDAGELINE DADGEL ID	
P12			_  BASELINE PARCEL ID	
	[TREATMENT VERSION ONLY]: Is this parcel currently enrolled in the			
P12a	CCSP program?	1=YES	2=NO	
	[FOR CONTROL ONLY] Did you sell any UNMILLED RICE PADDY			
	harvested from this parcel during the 2013 MINOR SEASON?	1=YES	2=NO>> <mark>P12e</mark>	
	F	1-153	Z-INO>>P IZE	
		I	İ	

	[FOR CONTROL ONLY] How much of the UNMILLED RICE PADDY harvested from this parcel during the 2013 MINOR SEASON did you		
	sell? [RECORD AMOUNT AFTER DRYING]		UNIT
P12c		Qty	1=Headpan (15KG) 2=Bucket (15KG) 3=GMG Mini (45KG) 4=GMG Maxi (90KG) 5=Bag # 3 (45KG) 6=Bag # 4 (60 KG) 7=Bag # 5 (135 KG) [For Weta]
			10=Bowl/Alonka 96=OTHER (SPECIFY)

	[FOR CONTROL ONLY] How much did you receive <b>per unit reported</b> in P12c?	[  GHC		
P12e	[FOR CONTROL ONLY] Did you sell any MILLED RICE harvested from this parcel during the 2013 MINOR SEASON?	1=YES	2=NO>>P13	
P12f	[FOR CONTROL ONLY] How much of the MILLED RICE harvested from this parcel during the 2013 MINOR SEASON did you sell?	Qty	UNIT  1=Headpan 2=Bucket 3=GMG Mini 4=GMG Maxi 5=Bag # 3 6=Bag # 4 7=Bag # 5 10=Bowl/Alonka 96=OTHER (SPECIFY)	
P12g	[FOR CONTROL ONLY] How much did you receive <b>per unit reported</b> in P12f?	[] GHC		
P13	Is [RESPONDENT] still the primary cultivator of this parcel?	1=YES >> P14	2=NO	
P13a	If no, do you know the <b>current</b> Primary Cultivator of this parcel?	1=Yes	2=NO>>Q87	
P13b	What is the name of the current primary cultivator?	NAME		
P13c	What is this person's telephone number?	>>Q87	[NEXT PARCEL]	
P14	Was this parcel captured on the baseline parcel roster? ENUMERATOR: REFER TO THE BASELINE PARCEL LISTING TO CONFIRM THIS.	1=YES >>P15	2=NO	
P14a	If no, please provide a brief description of the location.	[ALLOW AS MANY CHARACT	ERS AS POSSIBLE]	
P14b	What is the size of this parcel?	_  .    QUANTITY	UNIT 1=HECTARES 2=ACRES	
	How did the primary cultivator obtain the right to use this parcel?	1=Allocated Free >> P15 2=Inherited >> P15		
P14c		3=Purchased >> P15 4=Hire-in/Sublet-in 555=Other (Specify) >> P15		
	If Hire-in/Sublet-in,what is the name of the owner?	3=Purchased >> P15 4=Hire-in/Sublet-in		
P14d	What is the owner's telephone number?	3=Purchased >> P15 4=Hire-in/Sublet-in 555=Other (Specify) >> P15		
P14d		3=Purchased >> P15 4=Hire-in/Sublet-in 555=Other (Specify) >> P15  NAME    1=NONE OF PARCEL	3=ALL OF PARCEL >> Q87 (NEXT PARCEL)	
P14d P14e P15	What is the owner's telephone number?	3=Purchased >> P15 4=Hire-in/Sublet-in 555=Other (Specify) >> P15 NAME	· ·	
P14d P14e P15	What is the owner's telephone number? Was any portion of this parcel left fallow for the 2014 Major Season? How many [HECTARES/ACRES] of the parcel were <b>planted</b> this	3=Purchased >> P15 4=Hire-in/Sublet-in 555=Other (Specify) >> P15  NAME    1=NONE OF PARCEL  2=PART OF PARCEL	PARCEL)  UNIT 1=HECTARES	
P14d P14e P15 P16	What is the owner's telephone number? Was any portion of this parcel left fallow for the 2014 Major Season? How many [HECTARES/ACRES] of the parcel were <b>planted</b> this season?	3=Purchased >> P15 4=Hire-in/Sublet-in 555=Other (Specify) >> P15  NAME    1=NONE OF PARCEL  2=PART OF PARCEL    _         QUANTITY	UNIT 1=HECTARES 2=ACRES	

4	Did you soak the seeds used on this parcel before planting?	1=YES	2=NO >>Q6	
	On what day did you soak the seeds used on this parcel before planting		2 110 00	
	[TRANSPLANTING OR BROADCASTING]?			
5		MONTH	I I IDAY	
•				
	Which method of planting did you primarilly use on this parcel?	1=TRANSPLANTING		
6		2=DIRECT SEEDING /		
•		BROADCASTING >> Q9		
7	On what day did you sow seeds on the nursery bed?	MONTH	DAY	
8	On what day did you transplant seeds from the nursery to the parcel?	MONTH	DAY	
9	On what day did you broadcast the seeds used on this parcel?	MONTH	DAY	
	On what day after broadcasting was water released unto the parcel for	merrii		
	germination, either from irrigation water or rain?			
10		MONTH	DAY	
	What type of seed did you use on this parcel?	<del> </del>		
	What type of seed did you use off this parcer?	1=Togo Marshall		
		2=Jet3		
		3=Jasmine		
10a		4=Perfume Rice 5=Aman Kwatia		
iva		6=Tox		
		7=Jasmine 85		
		8=Aromatic		
		-555=Other (Specify)		
	What was the quantity of seeds you used on this parcel?	(1 ),	UNIT	
	what was the qualitity of seeds you used on this parcer:		1=Headpan (15KG)	
			2=Bucket (15KG)	
			3=GMG Mini (45KG)	
			4=GMG Maxi (90KG)	
10b			10=Bowl/Alonka	
		QUANTITI	11=American Tin	
			17=Beer Bottle	
			42=Stick	
			-555=OTHER (SPECIFY)	
11	Have you applied any herbicide to this parcel?	1=YES	2=NO >> Q16	
	On what day did you apply this herbicide?	MONTH	I I IDAY	
	Which type of herbicide did you apply?			
			1=SOLITO	
		2:	=PROPANIL	
			3=24-D	
			BASAGRAN	
			CORN DUST	
		6=RUN UP		
13		7=HORIZON PLUS		
		8=STAMP 9=ORESO PLUS		
			)=STUNPFM 1=BOUNTY	
			SUNPHOSATE	
			EWURA WURA	
			THER (SPECIFY)	

	[CONTROL VERSION ONLY]: [IF 13==1 (SOLITO) &13a==1]:	ENUMERATOR: DO NOT		
		READ RESPONSE CODES		
	What was the source of this herbicide?	TO RESPONDENT		
		1=GADCO/COPA-CONNECT		
13a		2=WIENCO		
104		3=SHOP		
		1		
		4=A FRIEND		
		-555=Others		
	How much herbicide (before mixing with water) was used for this			
	application?			
	ENUMERATOR: PLEASE NOTE QUANTITY AND UNIT			
	1=Milk Tin (40ml)			
14	2=Tomato Tin (20ml)	Quantity		
	3=Liter		11	
	4=Cap			
	5=Sachet			
	6=Bottle			
	-555=Other (Specify)			
_	Did you apply herbicide an additional time?			
15	, <del> ,</del>	1=YES >> LOOP TO Q12	2=NO	
16	Have you applied any insecticide to this parcel?	1=YES	2=NO >> Q21	
	On what day did you apply this insecticide?	MONTH	DAY	
	Which type of insecticide did you apply?			
	, , , , , ,		1=EFORIA	
		2=CYPERMETRIN 3=KARATE 4=CONTROLLER 5=BOOST EXTRA 6=DURSBAN 4E		
18				
10				
			7=POWER	
		•	=SEMETOE	
		-555= OTHER (	(SPECIFY)	
	How much insecticide (before mixing with water) was used for this			
	application?			
	ENUMEDATOR RUSAGE MOTE OUTANITITY AND UNIT			
	ENUMERATOR: PLEASE NOTE QUANTITY AND UNIT			
19	1=Milk Tin (40ml)	Quantity	Unit	
	2=Tomato Tin (20ml)			
	3=Liter			
	4=Cap			
	5=Sachet			
	-555=Other (Specify)			
20	Did you apply insecticide an additional time?	1=YES >> LOOP TO Q17	2=NO	
20	Did you apply any fungicide to this parcel?	1-123 >> 2001 10 Q17	2-110	
21	Dia you appry any rangiorae to ano pareer:	1=YES	2=NO >> Q26	
22	On what day did you apply this fungicide?			
	Which type of fungicide did you apply?	1=A	MISTAR TOP	
		2=MANCOZEB		
		3	=TOPSIN M	
		4=7	FRYMANGOR	
23		5=QUANTIZIP		
		SULPHUR 80		
			=FURADAN	
		-555=OTHER (		
		, , , , , , , , , , , , , , , , , , , ,	/	

	How much fungicide (before mixing with water) was used for this		
	application ?		
	ENUMERATOR: PLEASE NOTE QUANTITY AND UNIT		
	1=Milk Tin (40ml)		
	2=Tomato Tin (20ml)	Quantity	Unit
	3=Liter		
	4=Cap		
	5=Sachet		
	-555=Other (Specify)		
25	Did you apply fungicide an additional time?	1=YES >> LOOP TO Q22	2=NO
	Did you apply any fertilizer to this parcel?	1=YES	2=NO >> 30a
27	On what day did you apply fertilizer to this parcel?	_  MONTH	<u> </u>
	Which type of fertilizer did you apply?	1=1	NPK/ACTIVIA
28	IDECORD ONLY ONE ADDITIONALD TYPE OF FERTILIZED IN	_	2=UREA
	[RECORD ONLY ONE APPLICATION AND TYPE OF FERTILIZER IN		3=AMONIA
	EACH LOOP]	4=-555 OTHER	
29	How many 50 KG Bags did you apply?		BAGS
	Did you apply fertilizer an additional time?		
30		1=YES >> LOOP TO Q27	2=NO
30a	Did you hire any <b>permanent laborers</b> during the 2014 Major Season?	1=YES	2=NO
		, ,	
30B	Now I would like to ask you about the number of days that laborers contril	buted to <b>land preparation acti</b>	vities on this parcel, including
306	ploughing, weeding <b>before planting</b> , and bound dressing.		
31	Male family members of age 18 or older		LABOR DAYS
32	Female family members of age 18 or older		LABOR DAYS
33	Family members of age 17 or younger		LABOR DAYS
34	Permanent laborers		LABOR DAYS
35	Did you hire any casual group laborers?	1=YES	2=NO >> 37
36	How much in total did you pay for this work?		GHC
37	Did you hire any casual individual laborers?	1=YES	2=NO >> 39a
	How many person days did these individual laborers work in total?		
38		<u> </u>	LABOR DAYS
39	How much did you pay for this work?	I I I I I GHC	UNIT
		111	I1
39A	Now I would like to ask you about the number of days that laborers contri	buted to planting activities on th	is parcel, including soaking of seeds,
33A	estalbishment of nursery, and either tranpslanting or broadcasting.		
40	Male family members of age 18 or older	<u>  </u>	LABOR DAYS
	Female family members of age 18 or older		LABOR DAYS
	Family members of age 17 or younger		LABOR DAYS
43	Permanent laborers		LABOR DAYS
	Did you hire any casual group laborers?	1=YES	2=NO >> 46
	How much in total did you pay for this work?		GHC
	Did you hire any casual individual laborers?	1=YES	2=NO >> 48a
			•

	How many person days did these individual laborers work in total?	_  LABOR DAYS		
	How much did you pay for this work?			
	ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT			
48	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED)	_GHC	UNIT	
	Now I would like to ask you about the number of days that laborers contri	huted to applying fertilizer and c	ron protection chemicals (herbicide	
48A	fungicide,insecticides)	outou to applying fortinger and o	rop protoction enormous (norsionae,	
49	Male family members of age 18 or older		LABOR DAYS	
50	Female family members of age 18 or older		LABOR DAYS	
51	Family members of age 17 or younger		LABOR DAYS	
_	Permanent laborers		LABOR DAYS	
	Did you hire any casual group laborers?	1=YES	2=NO >> 55	
	How much in total did you pay for this work?	<u> </u>	_   GHC	
55	Did you hire any casual individual laborers?	1=YES	2=NO >> 57a	
56	How many person days did these individual laborers work in total?	<u> </u>	LABOR DAYS	
	How much did you pay for this work?			
57	ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT  1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE)  2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED)	_ _  GHC	UNIT <u> </u>	
57A	Now I would like to ask you about the number of days that laborers contri	buted to scaring birds.		
	Male family members of age 18 or older		LABOR DAYS	
	Female family members of age 18 or older		LABOR DAYS	
	Family members of age 17 or younger	<u>  </u>	LABOR DAYS	
61	Permanent laborers		LABOR DAYS	
62	Did you hire any casual group laborers?	1=YES	2=NO >> 64	
	How much in total did you pay for this work?		_    GHC	
64	Did you hire any casual individual laborers?	1=YES	2=NO >> 66a	
65	How many person days did these individual laborers work in total?		LABOR DAYS	
66	How much did you pay for this work?	_  GHC	UNIT	
66A	Now I would like to ask you about the number of days that laborers contri	buted to handpicking/weeding.		
67	Male family members of age 18 or older		LABOR DAYS	
68	Female family members of age 18 or older	<u> </u>	LABOR DAYS	
69	Family members of age 17 or younger		LABOR DAYS	

70	Permanent laborers		LABOR DAYS
71	Did you hire any casual group laborers?	1=YES	2=NO >> 73
	How much in total did you pay for this work?		GHC
	Did you hire any casual individual laborers?	1=YES	2=NO >> 75a
10	How many person days did these individual laborers work in total?	1-120	2-140 - 7 100
74	How many person days did these individual laborers work in total:	<u>  </u>	LABOR DAYS
	How much did you pay for this work?		
	ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT		
75	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE)	_  GHC	UNIT
	2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS		
	AND LABORERS COMBINED)		
75A	Now I would like to ask you about the number of days that laborers contrib	buted to any other activities no	previously mentioned. EXCLUDE
	HARVEST ACTIVITIES		
76	Did laborers contribute any days to other activities not previously mentioned?	1=YES	2=NO >> 87
77	What was the name of the activity?	1	1
	Male family members of age 18 or older		LABOR DAYS
	Female family members of age 18 or older		LABOR DAYS
	Family members of age 17 or younger	<u> </u>	LABOR DAYS
	Permanent laborers		LABOR DAYS
	Did you hire any casual group laborers?	1=YES	2=NO >> 84
	How much in total did you pay for this work?		GHC
	Did you hire any casual individual laborers?	1=YES	2=NO >> 87
85	How many person days did these individual laborers work in total?		LABOR DAYS
	How much did you pay for this work?		
	ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT		
	4-JWA OF BAID DED DAY BED INDIVIDUAL LABORED (MACE BATE)		
	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS	_  GHC	UNIT
	AND LABORERS COMBINED)		
	Would you like to include information for another parcel?		
	ENUMERATOR: PLEASE RECORD INFORMATION FOR ALL		
	IRRIGATION SCHEME PARCELS THAT ARE CURRENTLY CULTIVATED BY [PRIMARY CULTIVATOR] AS WELL AS ANY		
87	IRRIGATION SCHEME PARCELS THAT APPEAR ON THE BASELINE	1=YES >> LOOP TO P13_2	2=NO
	PARCEL ROSTER, BUT ARE NO LONGER CULTIVATED.		
88	How old is [PRIMARY RESPONDENT] in completed years?		_    AGE
89	Has [RESPONDENT] ever attended school?	1=Yes	2=NO >> 91
	What was the highest grade successfully completed?	1 100	
90			(USE CODES)
	GRADE LEVEL CODES	47-1004	05-0000
	01=None;	17=JSS1;	25=SSS2; 26=SSS2:
	02=Pre-school;	18=JSS2;	26=SSS3;
	11=P1;	19=JSS3;	28='O' level
	12=P2;	20=M1;	29= 'A' level
	13=P3;	21=M2;	30= Polytechnic
	14=P4;	22=M3;	31=Training College
	15=P5;	23=M4;	32= University
	16=P6;	24=SSS1;	33= Medical Training institution
			555= Other (Specify)

91	On which month and week do you expect to finish harvesting?	_  MONTH	_  WEEK
91	END TIME OF INTERVIEW (24HRS)	HRS	MINS

#	Question	Response		
P1	PERSON ADMINISTERING THE QUESTIONNAIRE	<u>                                    </u>		
P2	PRIMARY CULTIVATOR GADCO ID NUMBER			
P3	PRIMARY CULTIVATOR RESPONDENT ID	_ - _		
P4	PRIMARY CULTIVATOR NAME	First	Last	
P5	How many parcels does [PRIMARY CULTIVATOR] currently cultivate <b>that are part of the Kpong/ Weta irrigation scheme</b> , including parcels currently left fallow? ENUMERATOR: PLEASE REFER TO MODULE ONE PARCEL BOOK		PARCELS	
P6	IS [PRIMARY CULTIVATOR] the farm manager? [ENUMERATOR: THE PRIMARY CULTIVATOR IS CONSIDERED THE FARM MANAGER IF THEY HAVE THE MOST KNOWLEDGE REGARDING THE QUANTITY, TIMING, AND COST OF CHEMICAL, LABOR, AND MECHANIZED INPUTS APPLIED TO THE PARCELS]	1=YES >> P7	2=NO	
P6a	If no, what is the name of the farm manager?	NAME		
P6b	What is the farm manager's telephone number?			
P7	DID THE RESPONDENT (FARM MANAGER) CONSENT TO INTERVIEW?	1= YES>>P8	2= NO	
P7a	IF NO, STATE REASON FOR REFUSAL (after, skip to end of interview)	>> SKIP TO END OF INTERVIEW		
P9	DATE OF INTERVIEW			
P10	START TIME OF INTERVIEW (24HRS)			
P11	LIST ALL IRRIGATION SCHEME PARCELS THAT ARE CURRENTLY CULTIVATED BY [PRIMARY CULTIVATOR]  ENUMERATOR: THIS SHOULD BE THE SAME AS IN MODULE 1. IF NEW PARCEL, BE SURE TO INDICATE A NEW PARCEL ID NUMBER [FOR EXAMPLE, "NP1", "NP2", etc.]			
P12	LIST THE PARCEL ID FOR THE PARCEL FOR WHICH YOU ARE ABOUT TO ADMINISTER QUESTIONS P13-76	_  BASELINE	PARCEL ID	
P12AA	LIST THE CCSP PARCEL ID FOR THIS PARCEL	_  CCSP PAF	CEL ID	
P12AAA	LIST THE PARCEL NAME FOR THIS PARCEL	NAME		
P12a	[TREATMENT VERSION ONLY]: Is this parcel currently enrolled in the CCSP program?	1=YES	2=NO	
P13	Is [RESPONDENT] still the primary cultivator of this parcel?	1=YES >> P14	2=NO	
P13a	If no, do you know the <b>current</b> Primary Cultivator of this parcel?	1=Yes	2=NO>>76	
P13b	What is the name of the current primary cultivator?	NAME		
P13c	What is this person's telephone number?	>>Q76 [NEXT PARC	FI 1	
1 136	Was any portion of this parcel left fallow for the 2013 Minor	Q70 [NEXT I-ANC	•	
P15	Season?	1=NONE OF PARCEL	3=ALL OF PARCEL >> Q76 ( <b>NEXT PARCEL</b> )	
	III III III III III III III III III II	2=PART OF PARCEL		
P16	How many [HECTARES/ACRES] of the parcel were <b>planted</b> this season?	_ .  QUANTITY	UNIT 1=HECTARES 2=ACRES	
1	Have you applied any herbicide to this parcel since [DATE OF LAST INTERVIEW]?	1=YES	2=NO >> Q6	
2	On what day did you apply this herbicide?	_   MONTH	_  DAY	

	hans in the second	I	
	Which type of herbicide did you apply?	1=SOLITO 2=PROPANIL 3=24-D 4=BASAGRAN	
		5=CORN DUST 6=RUN UP	
		7=HORIZON PLUS	S
3		8=STAMP	
3		9=ORESO PLUS	
		10=STUNPFM 11=BOUNTY	
		12=SUNPHOSATI	<u>=</u>
		13=EWURA WUR	
		14=TACKLE	
		15=RIVAL -555=OTHER (SPEC	IFY)
	CONTROL VERSION ONLYD HE 42-4 (COLITO) 94241.	·	
	[CONTROL VERSION ONLY]: [IF 13==1 (SOLITO) &13a==1]:	ENUMERATOR: DO NOT READ RESPONSE CODES TO RESPONDENT	
	What was the source of this herbicide?		
		1=GADCO/COPA-CONNECT	
0-		2=WIENCO 3=SHOP	
3a		4=A FRIEND	
		-555=Others(Specify)	
	How much herbicide (before mixing with water) was used for		
	this application?		
	ENUMERATOR: PLEASE NOTE QUANTITY AND UNIT		
4	1=Milk Tin (40ml)	Quantity	
'	2=Tomato Tin (20ml) 3=Liter	<u>                                     </u>	
	4=Cap		
	5=Sachet		
	6=Bottle -555=Other (Specify)		
5	Did you apply herbicide an additional time?	1=YES >> LOOP TO Q2	2=NO
6	Have you applied any insecticide to this parcel?[SINCE DATE OF LAST INTERVIEW]	1=YES	2=NO >> Q11
7	On what day did you apply this insecticide?	MONTH	DAY
	Which type of insecticide did you apply?	1=EFORIA	<u>.</u>
		2=CYPERMETRIN	
		3=KARATE 4=CONTROLLER 5=BOOST EXTRA 6=DURSBAN 4E 7=POWER 8=SEMETOE 9=PYRINEX(QUICK)	
8			
		10=MIRAGE	· - <b>/</b>
		11=STRIKER	
		12=CONTIHALOTHF -555= OTHER (SPECIFY)	KIN
		-300- OTHER (SPECIFY)	

	How much insecticide (before mixing with water) was used for this application?				
	ENUMERATOR: PLEASE NOTE QUANTITY AND UNIT				
9	1=Milk Tin (40ml) 2=Tomato Tin (20ml) 3=Liter 4=Cap 5=Sachet -555=Other (Specify)	I	Quantity	Unit	
10	Did you apply insecticide an additional time?	1=YES	>> LOOP TO Q7	2=NO	
11	Did you apply any fungicide to this parcel since [DATE OF LAST INTERVIEW]?		1=YES	2=NO >> Q16	
12	On what day did you apply this fungicide?	<u> </u>	MONTH	DAY	
13	Which type of fungicide did you apply?	1=AMISTAR TOP 2=MANCOZEB 3=TOPSIN M 4=TRYMANGOR 5=QUANTIZIP 6=SULPHUR 80 7=FURADAN -555=OTHER (SPECIFY)			
14	How much fungicide (before mixing with water) was used for this application?  ENUMERATOR: PLEASE NOTE QUANTITY AND UNIT  1=Milk Tin (40ml) 2=Tomato Tin (20ml) 3=Liter 4=Cap 5=Sachet  -555=Other (Specify)	Quantity		Unit	
15	Did you apply fungicide an additional time?	1=YES	>> LOOP TO Q12	2=NO	
16	Did you apply any fertilizer to this parcel since [DATE OF LAST INTERVIEW]?		1=YES	2=NO >> Q21	
17	On what day did you apply fertilizer to this parcel?	I	MONTH	_  DAY	
18	Which type of fertilizer did you apply?  [RECORD ONLY ONE APPLICATION AND TYPE OF FERTILIZER IN EACH LOOP]	1=NPK/ACTIVIA 2=UREA 3=AMONIA 4=-555 OTHER (SPECIFY)			
19	How many 50 KG Bags did you apply?			BAGS	
20	Did you apply fertilizer an additional time?	1=YES	>> LOOP TO Q17	2=NO	
20A	As confirmation, please re-enter the Parcel ID for this Parcel	I_			
21	On what date did you <b>begin</b> cutting the rice crop on this parcel for harvest?		MONTH	_  DAY	
22	On what date did you <b>complete</b> threshing the rice crop from		MONTH	_  DAY	
23	How did you cut the crop on this parcel during the harvest?	2=Othe	ombine >>Q26 er Cutting Machine Manually>>Q25		

	What was the total cost to hire this machine, including chop		
24	money for the operator and tip??	1 , , , , ,	GHC
	IIE OWNED ENTED 1111		
	[IF OWNED, ENTER -111]	4. Ozwali in z	
25	How was the threshing done during the harvest?	1=Combine 2=Threshing Machine	
20	Tion was the thiesening asin daming and harrist	3=Manually >> Q27	
	What was the total cost to hire this machine, including chop		
26	money for the operator and tip??	   _ _ G	HC
	[IF OWNED, ENTER -111]	·	
	What was the total quantity of paddy harvested from this	,	
	parcel? [AFTER THRESHING AND BEFORE DRYING]		
	1=Headpan (15KG) 2=Bucket (15KG)		
	3=GMG Mini (45KG)		
27	4=GMG Maxi (90KG)	QUANTITY	UNIT
	5=Bag # 3 (45KG)		
	6=Bag # 4 (60 KG)		
	7=Bag # 5 (135 KG) [For Weta] 10=Bowl/Alonka		
	96=OTHER (SPECIFY)		
	FOR CONTROL: What was the total quantity of paddy		
	harvested from this parcel? [AFTER DRYING - BEFORE ANY		
	MILLING]		
	1=Headpan (15KG)		
	2=Bucket (15KG)		
27A	3=GMG Mini (45KG)	QUANTITY	UNIT
	4=GMG Maxi (90KG) 5=Bag # 3 (45KG)		
	6=Вад # 4 (60 KG)		
	7=Bag # 5 (135 KG) [For Weta]		
	10=Bowl/Alonka		
	96=OTHER (SPECIFY)		
	FOR TREATMENT: WHAT WAS THE TOTAL QUANTITY OF		
	PADDY THAT WAS GIVEN TO GADCO FROM THIS PARCEL ? [AFTER THRESHING]		
	,		
	1=Headpan (15KG)		
	2=Bucket (15KG) 3=GMG Mini (45KG)		
27B	4=GMG Maxi (90KG)	QUANTITY	UNIT
	5=Bag # 3 (45KG)		
	6=Bag # 4 (60 KG)		
	7=Bag # 5 (135 KG) [For Weta] 10=Bowl/Alonka		
	96=OTHER (SPECIFY)		

	FOR TREATMENT: WHAT WAS THE TOTAL QUANTITY OF PADDY THAT WAS KEPT FOR YOUR OWN USE FROM THIS PARCEL? [AFTER THRESHING AND BEFORE DRYING] [ENUMERATOR: CHECK THAT THE QUANTITIES GIVEN TO GADCO AND KEPT FOR OWN USE ADD UP TO THE TOTAL QUANTITY HARVESTED]		
27C	1=Headpan (15KG) 2=Bucket (15KG) 3=GMG Mini (45KG) 4=GMG Maxi (90KG) 5=Bag # 3 (45KG) 6=Bag # 4 (60 KG) 7=Bag # 5 (135 KG) [For Weta] 10=Bowl/Alonka 96=OTHER (SPECIFY)	QUANTITY	UNIT
28	Did you hire any <b>permanent laborers</b> during the 2014 Major Season?	1=YES	2=NO
28AA	As confirmation, please re-enter the CCSP Parcel ID for this Parcel		
28A	Now I would like to ask you about the number of days that laborers contributed to applying fertilizer and crop protection chemicals (herbicide, fungicide,insecticides) [SINCE DATE OF LAST INTERVIEW]		
29	Male family members of age 18 or older	_ LABOR	
30	Female family members of age 18 or older	LABOR	
31	Family members of age 17 or younger	_ LABOR DAYS	
32	Permanent laborers	_ _ LABOR 1=YES	2=NO >> Q35
33 34	Did you hire any casual group laborers? How much in total did you pay for this work?		HC
J-7	Did you hire any casual individual laborers?	<u> </u>	
35	Dia you ililo any dadaa iliawaaa laboroto.	1=YES	2=NO >> Q37A
		_  LABOR DAYS	
36	How many person days did these individual laborers work in total?	_  LABOR	DAYS
36		_  LABOR	DAYS UNIT
37 37A	total?  How much did you pay for this work?  ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT  1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE)  2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED)  Now I would like to ask you about the number of days that labor INTERVIEW]	_  GHC	UNIT     ATE OF LAST
37 37A 38	total?  How much did you pay for this work?  ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT  1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE)  2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED)  Now I would like to ask you about the number of days that labor INTERVIEW]  Male family members of age 18 or older	_  GHC  ers contributed to scaring birds [ SINCE D.	UNIT     ATE OF LAST  DAYS
37A 38 39	total?  How much did you pay for this work?  ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT  1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED)  Now I would like to ask you about the number of days that labor INTERVIEW]  Male family members of age 18 or older Female family members of age 18 or older	_  GHC  ers contributed to scaring birds [ SINCE DA	UNIT     ATE OF LAST  DAYS DAYS
37A  38  39  40	total?  How much did you pay for this work?  ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT  1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED)  Now I would like to ask you about the number of days that labor INTERVIEW]  Male family members of age 18 or older Female family members of age 18 or older Family members of age 17 or younger	ers contributed to scaring birds [ SINCE D. LABOR   LA	UNIT     ATE OF LAST  DAYS DAYS DAYS DAYS
37A  38  39  40  41	total?  How much did you pay for this work?  ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT  1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED)  Now I would like to ask you about the number of days that labor INTERVIEW]  Male family members of age 18 or older Female family members of age 18 or older Family members of age 17 or younger Permanent laborers	_  GHC  ers contributed to scaring birds [ SINCE D.   LABOR   LABO	UNIT     ATE OF LAST  DAYS DAYS DAYS DAYS DAYS
37A  38  39  40  41  42	total?  How much did you pay for this work?  ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT  1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE)  2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED)  Now I would like to ask you about the number of days that labor INTERVIEW]  Male family members of age 18 or older  Female family members of age 18 or older  Family members of age 17 or younger  Permanent laborers  Did you hire any casual group laborers?	GHC  ers contributed to scaring birds [ SINCE Date of the second of the seco	UNIT     ATE OF LAST  DAYS DAYS DAYS DAYS DAYS DAYS 2=NO >> Q44
37A  38  39  40  41  42  43	total?  How much did you pay for this work?  ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT  1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE)  2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED)  Now I would like to ask you about the number of days that labor INTERVIEW]  Male family members of age 18 or older  Female family members of age 18 or older  Family members of age 17 or younger  Permanent laborers  Did you hire any casual group laborers?  How much in total did you pay for this work?	GHC    GHC	UNIT     ATE OF LAST  DAYS DAYS DAYS DAYS DAYS 2=NO >> Q44 HC
37A  38  39  40  41  42	total?  How much did you pay for this work?  ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT  1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE)  2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED)  Now I would like to ask you about the number of days that labor INTERVIEW]  Male family members of age 18 or older  Female family members of age 18 or older  Family members of age 17 or younger  Permanent laborers  Did you hire any casual group laborers?	GHC  ers contributed to scaring birds [ SINCE Date of the second of the seco	UNIT     ATE OF LAST  DAYS DAYS DAYS DAYS DAYS DAYS 2=NO >> Q44

	How much did you pay for this work?		
	ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT		
46	4 WASE BAID DED BAY DED WIDW (BUAL LABORED		UNIT
40	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER	<u> </u>   6110	OIIII
	(WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL		
	DAYS AND LABORERS COMBINED)		
	DAYS AND LABORERS COMBINED)		
	L		
46A	Now I would like to ask you about the number of days that labor	ers contributed to handpicking/weeding. [	SINCE DATE OF LAST
	INTERVIEW]		
			D.A.V.O.
47	Male family members of age 18 or older	LABOR	
48	Female family members of age 18 or older	LABOR	
49	Family members of age 17 or younger	LABOR	
50	Permanent laborers	LABOR	
51	Did you hire any casual group laborers?	1=YES	2=NO >> 53
52	How much in total did you pay for this work?	[	GHC
53	Did you hire any casual individual laborers?	1=YES	2=NO >> 55A
54	How many person days did these individual laborers work in total?	LABOR	DAYS
	How much did you pay for this work?		
	How much did you pay for this work?		
	ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT		
	ENOWERATOR: I LEAGE NOTE QUANTITITY AND UNIT		
55	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER	_ _  GHC	UNIT
	(WAGE RATE)		
	2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL		
	DAYS AND LABORERS COMBINED)		
	· · · · · · · · · · · · · · · · · · ·		
	Now I would like to ask you about the number of days that labor		
55A	cutting, preparation of threshing ground, threshing, transportation		and bagging of rice (Do
	not include the cost of transport from roadside to the drying floor	or from the drying floor to market).	
56	Male family members of age 18 or older	_  LABOR	
57	Female family members of age 18 or older	_  LABOR	
58	Family members of age 17 or younger	_  LABOR	
59	Permanent laborers	_  LABOR	
60	Did you hire any casual group laborers?	1=YES	2=NO >> 62
61	How much in total did you pay for this work?		HC
62	Did you hire any casual individual laborers?	1=YES	2=NO >> 64A
63	How many person days did these individual laborers work in		DAYS
	total?		
	How much did you pay for this work?		
	ENLIMEDATOR: DI EASE NOTE OLIANITITY AND LINIT		
	ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT		
64		_  GHC	UNIT
64	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER	_  GHC	UNIT
64	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE)	_ _  GHC	UNIT
64	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL	_ _  GHC	UNIT
64	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED)	_ _  GHC	UNIT
	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED) What was the total amount paid for transport of this parcel's		UNIT
64 64a	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED) What was the total amount paid for transport of this parcel's rice crop from roadside to the drying floor and from the drying	_  GHC	UNIT
	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED) What was the total amount paid for transport of this parcel's rice crop from roadside to the drying floor and from the drying floor to market?	_  GHC	
64a	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED) What was the total amount paid for transport of this parcel's rice crop from roadside to the drying floor and from the drying floor to market?  Now I would like to ask you about the number of days that labore	_  GHC	
	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED) What was the total amount paid for transport of this parcel's rice crop from roadside to the drying floor and from the drying floor to market?	_  GHC	
64a 65A	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED) What was the total amount paid for transport of this parcel's rice crop from roadside to the drying floor and from the drying floor to market?  Now I would like to ask you about the number of days that labor EXCLUDING LAND PREPARATION AND PLANTING ACTIVITION.	_  GHC ers contributed to any other activities not p	previously mentioned.
64a	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED) What was the total amount paid for transport of this parcel's rice crop from roadside to the drying floor and from the drying floor to market?  Now I would like to ask you about the number of days that labore	_  GHC	
64a 65A	1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE) 2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED) What was the total amount paid for transport of this parcel's rice crop from roadside to the drying floor and from the drying floor to market?  Now I would like to ask you about the number of days that labor EXCLUDING LAND PREPARATION AND PLANTING ACTIVITIED DID INDIVIDED TO THE PARATION AND PLANTING ACTIVITIED.	_  GHC ers contributed to any other activities not p	previously mentioned.

67	Male family members of age 18 or older	LABOR DAYS	
68	Female family members of age 18 or older	_  LABOR DAYS	
69	Family members of age 17 or younger	_  LABOR DAYS	
70	Permanent laborers	_  LABOR I	DAYS
71	Did you hire any casual group laborers?	1=YES	2=NO >> 73
72	How much in total did you pay for this work?	_ G	HC
73	Did you hire any casual individual laborers?	1=YES	2=NO >> 76
74	How many person days did these individual laborers work in total?	_  LABOR DAYS	
75	How much did you pay for this work?  ENUMERATOR: PLEASE NOTE QUANITITY AND UNIT  1=WAGE PAID PER DAY PER INDIVIDUAL LABORER (WAGE RATE)  2=TOTAL SUM PAID TO ALL INDIVIDUAL LABORERS (ALL DAYS AND LABORERS COMBINED)	<u> </u>  _ _  GHC	UNIT
76	Would you like to include information for another parcel?  ENUMERATOR: PLEASE RECORD INFORMATION FOR ALL IRRIGATION SCHEME PARCELS THAT ARE CURRENTLY CULTIVATED BY [PRIMARY CULTIVATOR] AS WELL AS ANY IRRIGATION SCHEME PARCELS THAT APPEAR ON THE BASELINE PARCEL ROSTER, BUT ARE NO LONGER CULTIVATED.	1=YES >> LOOP TO P12	2=NO
77	How much in total did you pay to <b>permanent laborers</b> during the entire major season of 2014? [IF NO PERMANENT LABORES HIRED, ENTER 0 ]	_  GHC	
78	Has [RESPONDENT] ever attended school?	1=Yes	2=NO >> 91
79	What was the highest grade successfully completed?	_  (USE CC	DDES)
	GRADE LEVEL CODES		
	01=None;	17=JSS1;	25=SSS2;
	02=Pre-school;	18=JSS2;	26=SSS3;
	11=P1;	19=JSS3;	28='O' level
	12=P2;	20=M1;	29= 'A' level
	13=P3;	21=M2;	30= Polytechnic
	14=P4;	22=M3;	31=Training College
	15=P5;	23=M4;	32= University
	16=P6;	24=SSS1;	33= Medical Training institution
			555= Other (Specify)
80	On which month and week do you expect to plant in the 2014 Minor Season?	MONTH	_  WEEK
80A	Is the respondent currently the primary cultivator of any other rice parcel in the Kpong/Weta Irrigation scheme for the 2014 Major Season that has not been captured in the parcels listed above? ENUMERATOR: IF YES, RECORD PARCEL DETAILS ON A MISSING PARCEL SHEET	1 - YES	2 - NO

### TREATMENT GROUP ONLY

#	EXTENSION WORKER: PLEASE EXAMINE THE FIELD WITH THE FARMER	Value
	HAS THE FIELD BEEN DRAINED?	
1	1=YES 2=NO	
	ARE THERE WEEDS ON THE PLOT?	
2	1=YES 2=NO>>SKIP	
	WHAT IS THE AVERAGE LEAF STAGE OF THE LEAVES?	
3	[FILL RESPONSE CODES]	
	ENTER THE CODE OF THE PHOTO THAT MOST CLOSELY RESEMBLES THE LEAVES [LAMINATED PHOTO SHEET TO BE	
4	PROVIDED]	
	WHAT IS THE NUMBER OF TILLERS PER SQURE METER?	
5	IF GREATER THAN 'X' >> 7	
6	IF LOW PLANT DENSITY, IS THERE ANY FILLING?	
7	WHAT IS THE SOIL MOISTURE CONTENT?	
	ARE INSECTS DAMAGING THE PLANTS?	
8	1=YES 2=NO>>	
	WHAT TYPE OF DAMAGE DID THE INSECTS LEAVE?	
9	[FILL RESPONSE CODES]	
	ENTER THE CODE OF THE PHOTO THAT MOST CLOSELY RESEMBLES THE INSECT DAMAGE [LAMINATED PHOTO	
10	SHEET TO BE PROVIDED]	
	ARE THERE SYMPTOMS OF BLAST INFECTION?	
11	1=YES 2=NO >> 14	
	WHAT IS THE DISEASE SEVERITY?	
	1=VERY HIGH SEVERITY	
1	2=MODERATE SEVERITY	
12	3=LOW SEVERITY	
12	ENTER THE CODE OF THE PHOTO THAT MOST CLOSELY RESEMBLES THE BLAST INFECTION [LAMINATED PHOTO	
13	SHEET TO BE PROVIDED]	
	ARE THE PLANTS SHOWING SIGNS OF NUTRIENT DEFICIENCY?	
14	1=YES 2=NO	