

## Survey of Agricultural Biodiversity Assessment

**Selection of interviewees:** This questionnaire will be applied together to the male head of household, and to the female that will be interviewed for the Dietary Diversity section. The selection criterion for that woman is as follows: (1) a mother in the household between 15-49 years old with a child aged between 6-59 months. In the case that there are several mothers with children of 6-59 months in the household, thus eligible, choose one of the mothers randomly. Similarly if the selected mother has more than one child in the target age group, choose one of them randomly. If no mother with a child in this age group is present in the household, choose the woman who customarily prepares the food in the household irrespective of age (see additional instructions for the dietary diversity section). Most of the questions about species refer to a specific season of reference (either the dry season 2012/13 or the wet season 2013).

### General Information

Household ID: \_\_\_\_\_

a) Enumerator's name		f) Hamlet's landscape position	upper/ medium/ lower
b) Date of interview (dd/mm/yyyy)		g) Household ID (give sequential numbers)	
c) State		h) Latitude (at least 7 digits)	xx.xxxxx
d) District		i) Longitude (at least 7 digits)	xx.xxxxx
e) Village with ZIP/PIN code		j) Elevation (in meters)	

### Information on respondent

a) HH head name				i) HH head spouse status	In hh	absent	no spouse
b) HH head gender	M	F		j) Education of each spouse (number of years of formal education completed)			
c) HH head education (number of years of formal education completed)				k) Relation of respondents to HH head			
d) HH head age				l) Number of spouse			
e) HH head marital status**	Single	Married	Widowed				

**Annual plant species grown on the farm during the dry season 2012/13 (include field crops and kitchen garden) (add more sheets if necessary)**

		Species	Species	Species	Species	Species	Species
Please write the name of species							
1. For how many years have you been growing this species in this season?							
2. Where it was grown during the dry season 2102/13	Farm=1, kitchen garden=2, other (specify)						
3. Under what water conditions was grown?	Rainfed=1, tube-well irrigation=3, canal irrigation=4, other (specify)						
4. What was the area planted to the species? (not applicable kitchen garden)	Units =ha						
5. What was the objective of producing it?	Self-consumption exclusively=1, selling exclusively=2, both self consumption and sale=3, other (specify)						
6. If consumed, what contribution does the species make to food consumed	Major=3;medium=2; minor=1, no contribution=0						
7. If sold, what contribution does the species make to income	Major=3;medium=2; minor=1, no contribution=0						
8. What parts of the plant are used (Mark all relevant ones)	Seed=1, leaf=2, stem=3, root=4, flowers=5, bark =6, other (specify)						
9. What were the uses that you give to it? (Mark all relevant ones), if the answer is exclusively 1, go to question 16, otherwise continue	Food=1, fodder/animal feed=2, medicine=3, fuel=4, construction material=5; others (specify)						
10. How did you obtain the seed you planted in the dry season 2012/13?	Saved from own previous harvest=1, obtained outside the farm=2						
11. If obtained outside the farm in the dry season 2012/13, from whom did you obtain it?	Family=1, neighbor=2, friend=3, public seed trader=4,private seed trader=5, local market=6, government emergency programme =7, NGO=8 other (specify)						
12. Place indicate the name of the place where you got the seed?	Name of the location (e.g. Bamako)						
13. If you obtained seed outside the farm, what transaction did you made?	Purchase=1, exchange of seed=2, barter for other goods=3, credit=4, gift=5, other (specify)						
14. How frequently do you renew the seed of this species?	Every year=1: every 2 years=2; every 3 years=3; never=4; other (Specify).						

15. Did you give seed to other farmer to be planted farm in the dry season 2012/13	No=0, yes=1						
16. Place indicate the name of the place where you gave the seed?	Name of the place						
17. How many varieties of this species did you plant in the dry season 2012/13	number						
18. How many of those varieties were local?	number						
19. How many of those varieties were "improved/hybrid? (local term)	number						
20. Would you want to get other varieties of this species (yes=1, no=0)	No=0, yes=1						
21. If yes, what types:	local=1, improved=2, both=3						
22. Who takes care of the species?	Husband=1, wife=2, both=3, children=4, other (specify)						
23. Who makes the decisions about the seed that was planted?	Husband=1, wife=2, both=3, children=4, other (specify)						
24. Who makes the decisions about the field management of this "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						
25. Who makes the decisions about the consumption of the "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						
26. Who makes the decisions about the marketing of the "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						
27. Who makes the decisions about how to use the revenue from the sale of the "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						

**Annual plant species grown on the farm during the wet season 2013 (include field crops and kitchen garden) (add more sheets if necessary)**

		Species	Species	Species	Species	Species	Species
Please write the name of species							
28. For how many years have you been growing this species in this season?							
29. Where it was grown during the wet season 2013	Farm=1, kitchen garden=2, other (specify)						
30. Under what water conditions was grown?	Rainfed=1, tube-well irrigation=3, canal irrigation=4, other (specify)						
31. What was the area planted to the species? (not applicable kitchen garden)	Units =ha						
32. What was the objective of producing it?	Self-consumption exclusively=1, selling exclusively=2, both self consumption and sale=3, other (specify)						
33. If consumed, what contribution does the species make to food consumed	Major=3;medium=2; minor=1, no contribution=0						
34. If sold, what contribution does the species make to income	Major=3;medium=2; minor=1, no contribution=0						
35. What parts of the plant are used (Mark all relevant ones)	Seed=1, leaf=2, stem=3, root=4, flowers=5, bark =6, other (specify)						
36. What were the uses that you give to it? (Mark all relevant ones), if the answer is exclusively 1, go to question 16, otherwise continue	Food=1, fodder/animal feed=2, medicine=3, fuel=4, construction material=5; others (specify)						
37. How did you obtain the seed you planted in the wet season 2013?	Saved from own previous harvest=1, obtained outside the farm=2						
38. If obtained outside the farm in the wet season 2013, from who did you obtain it?	Family=1, neighbor=2, friend=3, public seed trader=4,private seed trader=5, local market=6, government emergency programme =7, NGO=8 other (specify)						
39. Place indicate the name of the place where you got the seed?	Name of the location (e.g. Bamako)						
40. If you obtained seed outside the farm, what transaction did you made?	Purchase=1, exchange of seed=2, barter for other goods=3, credit=4, gift=5, other (specify)						
41. How frequently do you renew the	Every year=1: every 2 years=2; every 3						

seed of this species?	years=3; never=4; other (Specify).						
42. Did you give seed to other farmer to be planted farm in the wet season 2013	No=0, yes=1						
43. Place indicate the name of the place where you gave the seed?	Name of the place						
44. How many varieties of this species did you plant in the wet season 2013	number						
45. How many of those varieties were local?	number						
46. How many of those varieties were "improved/hybrid? (local term)	number						
47. Would you want to get other varieties of this species (yes=1, no=0)	No=0, yes=1						
48. If yes, what types:	local=1, improved=2, both=3						
49. Who takes care of the species?	Husband=1, wife=2, both=3, children=4, other (specify)						
50. Who makes the decisions about the seed that was planted?	Husband=1, wife=2, both=3, children=4, other (specify)						
51. Who makes the decisions about the field management of this "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						
52. Who makes the decisions about the consumption of the "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						
53. Who makes the decisions about the marketing of the "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						
54. Who makes the decisions about how to use the revenue from the sale of the "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						

**Perennial plant species (food—fruit, leaves, pods—and agro-forestry—fodder, fuel, house construction, industry, etc.) maintained during 2013 (add more sheets if necessary)**

		Species	Species	Species	Species	Species	Species
Please write the name of species							
55. For how many years have you been growing this species?							
56. Where is it located?	Farm=1, kitchen garden=2, common lands=3, other (specify)						
57. Under what water conditions was grown?	Rainfed=1, tube-well irrigation=3, canal irrigation=4, other (specify)						
58. Did you harvest it at any time during 2013?	No=0, Yes=1						
59. What was the objective of harvesting it?	Self-consumption exclusively=1, selling exclusively=2, both self consumption and sale=3						
60. What parts do you use?							
61. What products did you harvest/obtained from it?	Food=1, fodder/animal feed=2, medicine=3, fuel=4, construction material=5; others (specify)						
62. What was the number of trees? Or area for grasses							
63. How many varieties of this "species" did you plant last year?							
64. How many of those varieties are local?							
65. How many of those varieties are "improved? (local term)							
66. How did you obtain the <u>original</u> planting material?	Need fill in categories (include inheritance)						
67. What transaction did you made?	Purchase=1, exchange of seed=2, barter for other goods=3, credit=4, gift=5, other (specify)						
68. Did you give planting material to others in the last three years (2010-12)?	No=0, yes=1						
69. Who takes care of the species?	Husband=1, wife=2, both=3, children=4, other (specify)						
70. Who makes the decisions about	Husband=1, wife=2, both=3, children=4, other (specify)						

the field management of this "species"?							
71. Who makes the decisions about the harvesting of the "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						
72. Who makes the decisions about the uses of the "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						
73. Who makes the decisions about the sale for various products from species?	Husband=1, wife=2, both=3, children=4, other (specify)						
74. Who makes the decisions about how to use the revenue from the sale of the "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						

**Wild or semi-wild species harvested from natural vegetation (add more sheets if necessary)**

Please indicate which wild or semi-wild crops you collected and or marketed during the dry season of 2012/13

		Species	Species	Species	Species	Species	Species
Please write the name of species							
75. What products did you harvest/obtained from it?	Food=1, fodder/animal feed=2, medicine=3, fuel=4, construction material=5; others (specify)						
76. What was the objective of harvesting it?	Self-consumption exclusively=1, selling exclusively=2, both self consumption and sale=3						
77. Who harvested it?	Husband=1, wife=2, both=3, children=4, other (specify)						
78. Who makes the decisions about the use of the species?	Husband=1, wife=2, both=3, children=4, other (specify)						
79. Is the product sold?	No=0, yes=1						
80. If sold, who makes the decisions about how to use the revenue from the sale of the "species"	Husband=1, wife=2, both=3, children=4, other (specify)						

Please indicate which wild or semi-wild crops you collected and or marketed during the wet season of 2013

		Species	Species	Species	Species	Species	Species
Please write the name of species							
81. What products did you harvest/obtained from it?	Food=1, fodder/animal feed=2, medicine=3, fuel=4, construction material=5; others (specify)						
82. What was the objective of harvesting it?	Self-consumption exclusively=1, selling exclusively=2, both self consumption and sale=3						
83. Who harvested it?	Husband=1, wife=2, both=3, children=4, other						

	(specify)						
84. Who makes the decisions about the use of the species?	Husband=1, wife=2, both=3, children=4, other (specify)						
85. Is the product sold?	No=0, yes=1						
86. If sold, who makes the decisions about how to use the revenue from the sale of the "species"	Husband=1, wife=2, both=3, children=4, other (specify)						



**Domesticated animal species maintained by the household during the dry season of 2012/13 (add more sheets if necessary)**

		Species	Species	Species	Species	Species	Species
Please write the name of species							
87. For how many years have you been rearing this species?							
88. How many animals of this species do you own during the dry season 2012/13?							
89. What products do you derive from this species during the dry season 2012/13?	Milk=1, dung for fuel=2, dung as fertilizer=3, hides=4; others (specify)						
90. What were the objectives for the products derived from this species? (if many products, use a separate sheet, with the question number)	Direct use by household=1, for sale=2; both=3, other=4 (specify)						
91. How many breeds of this species did you maintain during the dry season 2012/13?							
92. How many of these breeds are local?							
93. How many of these breeds are "improved"							
94. How many of these breeds are a mixture of local and "improved"							
95. How many of these breeds are a mixture of different local breeds?							
96. Did you purchase any during the dry season 2012/13?	No=0, Yes=1						
97. If yes, how many did you purchase during the dry season 2012/13							
98. Did you sell during the dry season 2012/13	No=0, Yes=1						
99. If yes, how many did you sell during the dry season 2012/13?	Number						
100. To whom?	Fill in categories						
101. Place indicate the name of the place where you sold them	Name of the place						
102. Did you participate in animal fairs for	Fill in categories						

buying/selling during the dry season 2012/13							
103. Who took care of the species during the dry season 2012/13?	Husband=1, wife=2, both=3, children=4, other (specify)						
104. Who makes the decisions about the management of this "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						
105. Who makes the decisions about the uses of the "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						
106. Who makes the decisions about the sale for various products from species?	Husband=1, wife=2, both=3, children=4, other (specify)						
107. Who makes the decisions about how to use the revenue from the sale of the "species"?							

### Wild animal species hunted by the household throughout 2013(add more sheets if necessary)

		Species	Species	Species	Species	Species	Species
Please write the name of species							
108. For how many years have you been hunting this species?	Number of years						
109. How many animals of this species have you killed in 2013?							
110. What products do you derive from this species in 2013?	Trophy=1, hides/leather=2, bones=3, others =4(specify)						
111. What are the objectives for the products derived from this species?	Direct use by household=1, for sale=2; both=3, other=4 (specify)						
112. Did you purchase this animal in 2013?	No=0, Yes=1						
113. If yes, how many did you purchase in 2013?							
114. Did you sell in 2013	No=0, Yes=1						
115. ?							
116. If yes, how many did you sell 2013?	number						
117. To whom?	Fill in categories						
118. Place indicate the name of the place where you sold them	number						
119. Who hunt this species in the household?	Husband=1, wife=2, both=3,						

	children=4, other (specify)						
120. Who makes the decisions about the uses of the "species"?	Husband=1, wife=2, both=3, children=4, other (specify)						
121. Who makes the decisions about the sale for various products from species?	Husband=1, wife=2, both=3, children=4, other (specify)						
122. Is there any taboo about this species in the village	No=0, Yes=1						
123. If yes, please specify	Fill in categories						

### Socioeconomic data

#### Family size

Please fill the number of members of the household by age and gender

age class	male	female	age classes	Male	female		Male	female
a)<6 months			b)6months-59 months			c)5-6yrs		
d)7-9 yrs			e)10-15 yrs			f)16-60 yrs		
g)>60 yrs			X	X	X	X	X	X

Land owned and cultivated (hectare, cross out if not relevant)

Gender	a)owned	b) shared in	c) shared out	d) rented in	e). rented out	f) total cultivated
Husband						
Wife						
Joint						

### Other owned, land use/ land cover (hectare)

gender	a) fallow	b) waste land	c) grazing land	d) trees/forest	e). others	f) total non-cultivated
<b>Husband</b>						
<b>Wife</b>						
<b>Joint</b>						

### Access, quality, quantity, and management of water resources (Put "X" if not relevant)

Item	Sources of water					
	Canals	Open well	Bore well	Khadin	taanka	naadi
a) privately owned (nr)						
b) communally owned(nr)						
e) who owns (male, female, joint)	m--f--j	m--f--j	m--f--j	m--f--j	m--f--j	m--f--j

### Housing

124. Observe/Note the type of floor of household's main residence (Interviewer to observe)	Earth floor=1, stone=2, cement=3, tile=4, wood=5, other (specify)	/ ___ /
125. Observe/Note the type of wall of household's main residence (Interviewer to observe)	Wood=1, earth wall=2, iron sheet=3, stone=4, other (specify)	/ ___ /
126. Observe/ note the roofing material of household's main residence (Interviewer to observe)	Straw/grass=1, iron sheet=2, tile=3, other (specify)	/ ___ /
127. Do you have electricity in your house?	No=0, Yes (from Power company)=1, Yes (from generator)=2	/ ___ /
128. If no electricity, what is your main source of energy for the lighting of your house?	Oil/paraffin=1, gas=2, solar=3, other (specify)	/ ___ /

### Ownership of consumer goods

Do any of the household members own any of the following items (Observe/Ask)

129. Bicycle	/___/	133. CD player	/___/	137. Business vehicle	/___/
130. Motorbike	/___/	134. Television	/___/	138. Paraffin stove	/___/
131. Car	/___/	135. Cell/mobile phone	/___/	139. Gas cooker	/___/
132. Radio	/___/	136. Refrigerator	/___/		/___/

Household sources of income: Please indicate from which of these sources your household obtains a monetary income

Activités	Source income Mark (√) if yes	Who contributes. Mark all relevant ones	Who manages the revenue. Mark all relevant ones	activities	Source income Mark (√) if yes	Who contributes. Mark all relevant ones	Who manages the revenue. Mark all relevant ones
Activities		<b>M / F / C</b>	<b>M / F / C</b>	h)regular employment		<b>M / F / C</b>	<b>M / F / C</b>
a)crop main products		<b>M / F / C</b>	<b>M / F / C</b>	i)business -self employed		<b>M / F / C</b>	<b>M / F / C</b>
b)crop residues		<b>M / F / C</b>	<b>M / F / C</b>	j)remittance		<b>M / F / C</b>	<b>M / F / C</b>
c)other feeds or forages		<b>M / F / C</b>	<b>M / F / C</b>	k)others		<b>M / F / C</b>	<b>M / F / C</b>
d)livestock sale		<b>M / F / C</b>	<b>M / F / C</b>			<b>M / F / C</b>	<b>M / F / C</b>
e)livestock products sell ( e.g milk)		<b>M / F / C</b>	<b>M / F / C</b>			<b>M / F / C</b>	<b>M / F / C</b>
f)agricultural labor		<b>M / F / C</b>	<b>M / F / C</b>			<b>M / F / C</b>	<b>M / F / C</b>
g)other non agric-labor		<b>M / F / C</b>	<b>M / F / C</b>				

### Market participation

Foods, groceries, clothes, agricultural products, agricultural inputs, and animals

<p>140. Which markets do you participate in/go to? For what purpose do you got to that market? Which means of transportation is used? What is the distance between your village and the markets? How much time do you take to go to each market?</p> <p>141. What is the frequency of participation in each market? (how many times in 2 weeks)</p>		<b>Market 1</b>	<b>Market 2</b>	<b>Market 3</b>	<b>Market 4</b>	
	<b>Market name</b>					
	<b>Food</b>	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	
	<b>Agricultural inputs</b>	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	
	<b>Agricultural products produce by household</b>	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	
	<b>Animals</b>	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	
	<b>Other (specifiy)</b>	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	Buy /__ / Sell /__ /	
	<b>Mean of trans portation</b>					
	<b>Distance to market (Km)</b>					
	<b>Time (village to market )</b>		/__ /__ / Hrs Min	/__ /__ / Hrs Min	/__ /__ / Hrs Min	/__ /__ / Hrs Min
	<b>Freq (15days)</b>					

### Ethnic group, roles in the community

142. Ethnic group	Sénofo=1; Minianka=2; Bambara=3, Wassoulouké=4; Supyiré=5; Konabere=6; Dogon=7; Malinké=8; Peul=9; autres=10(sepcify)	/ /	143. Farmer association	/ /
144. Roles in the community	Yes=1; No=0	/ /	145. Cattle association	/ /
146. Leadership role	Yes=1; No=0	/ /	147. Association of singers/griots	/ /
148. Griot	Yes=1; No=0	/ /	149. Other (describe)	/ /
150. Blacksmith	Yes=1; No=0	/ /	151. Other (describe)	/ /
152. social activist (e.gender)	Yes=1; No=0	/ /	153. Other (describe)	/ /
154. environmental activist	Yes=1; No=0	/ /	155. Other (describe)	/ /

### Social networking

Group category	Is there a group in your community?	Do you or someone in your household participate in the group?	Who is active member of this group in the hh?
156. Agricultural/livestock/fisheries producers group, including marketing	yes/no	yes/no	m...f...j
157. Water users group	yes/no	yes/no	m...f...j
158. Forest users group	yes/no	yes/no	m...f...j
159. Credit or microfinance group	yes/no	yes/no	m...f...j
160. Mutual help/insurance group ( including burial societies)	yes/no	yes/no	m...f...j

161. Trade and business association	yes/no	yes/no	m...f...j
162. Civic group (improving community or charitable group ( helping others))	yes/no	yes/no	m...f...j
163. Local government	yes/no	yes/no	m...f...j
164. Religious group	yes/no	yes/no	m...f...j
165. Self-help group	yes/no	yes/no	m...f...j
166. Village federation	yes/no	yes/no	m...f...j
167. Youths sanghams/clubs	yes/no	yes/no	m...f...j
168. Connection with neighboring villagers	yes/no	yes/no	m...f...j
169. Others (specify)	yes/no	yes/no	m...f...j

### Participation in government and non-government programs

Need to identify a list of government and non-government programs that provide households with food, cash, work, credit, etc. and ask whether household participated or not in each one. And revise.

Program	Do you or someone in your household participate in the program?
	yes/no
	yes/no
	yes/no
	yes/no
	yes/no



	yes/no
	yes/no
	yes/no
	yes/no
	yes/no
	yes/no
	yes/no
	yes/no
	yes/no
	yes/no

Risk Attitudes

How would you describe yourself (choose only one)

I adopt a new crop, even if nobody else has done it.....( )

I adopt a new crop, if I have seen others taken before me.....( )

I never adopt a new crop, even if I have seen others doing ( )

Which of the statements below best describes your attitude toward risk (choose only one)

One should be extremely careful about making changes in life ( )

Caution is more important than risk-taking in order to be successful ( )

Risk-taking is more important than caution in order to be successful ( )

You will never achieve anything in life unless you act boldly and take risks ( )