

Questionnaire for Nutrient Expert® Cassava Field Validation

Instructions: Check the box and/or write down the needed information on the space provided

Site Description

Farmer Name: _____

Barangay: _____

Province: _____

City/ Municipality: _____

Geographical coordinates: _____

Total farm size (ha): _____

Terrain (flat, gently sloping): _____ (please indicate % slope if sloping)

Variety: _____ (please indicate: maturity period and source)

Soil characteristics: texture, pH, soil organic matter, available phosphorus (P), exchangeable potassium (K), magnesium (Mg), boron (B), zinc (Zn)

(Note: attach result of soil analysis conducted in designated BSWM laboratories)

Farmer's Socio-Economic Profile

Age: _____

Gender: _____

Educational attainment (elementary, high school, college): _____

Status of land ownership (owned, rented): _____

Number of children: _____

Source of income (agricultural, other): _____

Cassava use/market (home use, local processors, assemblers): _____

Type of cassava grower: sole producer contract grower cassava as intercrop

Current FFP and Yield

1. Is this the first time cassava will be grown on this field?

Yes No, how many years has cassava been continuously grown on this field? 1-2 years 3-5 years more than 5 years

Note: If 'Yes', skip questions 2-3 and proceed to 'SSNM Rates'

2. What is the yield of cassava for a typical season in the past 3 to 5 years? Provide total weight of harvested roots from the entire field (fresh weight).

Field size: ___ ha

Total harvested roots: _____ (local unit, e.g. sack, ton)

1 local unit = ___ kg

3. How much fertilizer does the farmer usually apply to the entire cassava field? Specify no. of fertilizer application, timing or schedule of each application (i.e. days after planting), fertilizer source and amount applied.

Inorganic fertilizer

Application no.	Days after planting	Fertilizer name (e.g. urea, 14-14-14, etc)	Number of bags per ha

Note: 1 bag of fertilizer = 50 kg

Organic fertilizer (e.g. chicken manure)

Organic fertilizer source	Weight of full bag (kg)	Number of bags per ha

Please indicate NPK content of organic fertilizer, if known:

N: _____%; P₂O₅: _____%; K₂O: _____%

SSNM Rates

1. Water availability: Fully rainfed Rainfed with supplemental irrigation

Do you have an estimate of K input from irrigation/rainfall?

Yes, please specify: ___ kg K₂O per ha per crop

No

2. Flooding problems Seldom Never [Seldom = 1 out of 5 times]

3. Drought problems Often Seldom Never

[Often = 2 or 3 out of 5 times; Seldom = 1 of 5 times]

4. Soil depth (from surface to rock layer or parent material)
 - deep (50 cm or more) shallow (less than 50 cm)
5. Presence of soil-related problems or constraints (note: answer can be more than one)
 - acidity Soil pH:_____ (If pH is below 5.3, liming is recommended)
 - deficiency of secondary nutrients and micronutrients
(select from a list: boron, magnesium, sulfur, zinc)
 - problem soils (select from list: sloping, >8% slope; others, please specify)
 - none
6. What does the farmer do with cassava residues after harvest?
 - Remove all the above ground residues from the field
 - Retain portion of stem and leaves

Leaves retained: _____% Stems retained: _____%

7. Crop grown before cassava (i.e. crop in the previous season)

Choose or specify the crop, yield, and residue management

Previous Crop	Yield* (t/ha)	Residue Management
<input type="checkbox"/> Cassava		<input type="checkbox"/> Removed all stems and leaves from the field <input type="checkbox"/> Removed all stems but retained leaves from the field
<input type="checkbox"/> Maize		<input type="checkbox"/> Retained all aboveground residues in the field for incorporation to next crop
		<input type="checkbox"/> Removed all above ground residues from the field
		<input type="checkbox"/> Composted all aboveground residues for incorporation to next crop
		<input type="checkbox"/> Retained all aboveground residues in the field and burned
<input type="checkbox"/> Rice		<input type="checkbox"/> Removed all aboveground residues from the field
		<input type="checkbox"/> Retained stubble and removed straw from the field
		<input type="checkbox"/> Retained all aboveground residues in the field
<input type="checkbox"/> Other (specify)		<input type="checkbox"/> Removed all aboveground residues from field

_____		<input type="checkbox"/> Retained crop residues for incorporation to next crop
<input type="checkbox"/> Fallow		

* Please indicate moisture content of the yield. Alternatively, indicate whether it is sun-dried or measured at threshing (for rice) or shelling (for maize).

How much fertilizer did the farmer apply to the previous crop?

Inorganic fertilizer

Fertilizer name (e.g. urea, 14-14-14, etc)	Number of bags per ha

Organic fertilizer (e.g. chicken manure)

Organic fertilizer source	Weight of full bag (kg)	Number of bags per ha

Please indicate NPK content of organic fertilizer, if known:

N: _____% P₂O₅: _____% K₂O: _____%

8. If the farmer is using manure/compost, since when has he/she been applying it?

3 years or less more than 3 years

What is the rate of manure or compost that farmer applies?

less than 2 t/ha 2 t/ha or more

9. Soil type: clayey loamy sandy

10. Soil color and organic matter content:

reddish or yellowish color (low organic matter)

grayish or brownish (moderate organic matter)

very dark soil with high organic matter

11. Has your soil been analyzed for OM, P, and K in the past 3-5 years?

Yes No

If yes, choose the level of OM: low medium high

If yes, choose the level of soil P: low medium high

If yes, choose the level of soil K: deficient sufficient

12. Is your soil known to be of volcanic origin and contain allophone?

Yes No

Prices

Please indicate the **local price** or unit cost per item on the designated row space.

Cassava Product	Price (PHP/kg)
Fresh roots	
Cassava chips	
Cassav starch	

Labor	Unit	Unit cost (PHP)
Land preparation (mechanized)	1 passing	
Man day (MD)	MD	
Man-animal day (MAD)	MAD	
Chipping cost	1kg	
Hauling cost (from farm to warehouse)	1 bag	
Starch processing	1 ton fresh roots	

Materials	Unit	Unit cost (PHP)
Cassava planting material	Bundle	
Sack for bagging cassava chips	Sack	