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Thanks a lot for joining the cacao study, which was finished in December. We have some additional questions we would like to ask you, it only takes about xx minutes.

As usual in STORMA, all information that you give to us will be treated anonymously and confidentially.

Household Data

0.1 Desa: _____ 0.2 Kode Kebun: _____
0.3 Petani: _____ 0.4 Since when managed by farmer? _____

We think the cacao study was very important for the STORMA research and we think you gave us very valuable information.

How about you?

What do you think about the cacao study (for example was it easy or difficult, did it bring new ideas, what did you like and what not):

Write some very brief notes about farmers comment

1. Tree diversity

1.1 Do you have forest trees on your plot? ☐ Ya ☐ Tidak If yes, how many different species? _____

Could you name the species? _____

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2. Soil fertility

2.1 What is your impression about the soil fertility on your cacao plot? Is it ☐ high ☐ middle ☐ low

2.2 Did the soil fertility decline during the last 5 years? ☐ Ya ☐ Tidak

2.3 Do you use fertilizer? ☐ Ya ☐ Tidak if yes, since when? _____ why/why not? _____

2.4 How do you apply it? Code 1 ☐

2.5 Did you increase your fertilizer use (quantity)during the last 5 years? ☐ Ya ☐ Tidak

Why/why not? _____ -

- | |
|---|
| 1. just throwing on the plot
2. in a circle around the cacaotree
3. other method (tuliskan) |
|---|

3. Productivity of trees

3.1 Do you have cacao trees older than 15 years? ☐ Ya, _____ tahun ☐ tidak If yes:

3.2 Did you already recognize a decline in yield from these trees? ☐ Ya ☐ Tidak if yes:

3.3 What are you already doing against this? _____

4. Pests and Diseases

A CPB

4.1 Do you have problems with CPB on your plot? (*explain: buah kering, show pictures or fruit*) ☐ Ya ☐ Tidak If yes:

4.2 When was the first time that CPB occurred on your plot? _____

4.3 Did it increase since then? ☐ Ya ☐ Tidak % of fruits not usable due to CPB begin _____, now _____

4.4 What did you do against it? _____

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B BPD

4.5 Do you have problems with BPD on your plot? (*explain: buah hitam, show pictures or fruit*) ☐ Ya ☐ Tidak If yes:

4.6 When was the first time that BPD occurred on your plot? _____

4.7 Did it increase since then? ☐ Ya ☐ Tidak % of fruits not usable due to BPD begin _____, now _____

4.8 What did you do against it? _____

5. Droughts and flooding

5.1 In which year did you have the last severe drought? _____ For how many months? _____

5.2 Were the cacao trees affected by this drought? ☐ Ya ☐ Tidak If yes:

5.3 What did you do against it? _____

5.4 How much decline in harvest did you have due to this drought? _____ %

5.5 If you have a heavy rain, does the water stand on your plot? ☐ Ya ☐ Tidak If yes:

5.6 Do you use drainage? ☐ Ya ☐ Tidak

6. Innovations

6.1 Do you (did you ever) do grafting? ☐ Yes, since _____ ☐ Tidak

6.2 Do you (did you ever) do irrigation (digging water channels)? ☐ Yes, since _____ ☐ Tidak

6.3 Do you (did you ever) do sanitation? ☐ Yes, since _____ ☐ Tidak

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6.4 Do you (did you ever) do terrace building? ☐ Yes, since _____ ☐ Tidak

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grass cutting machine, scissors for "prunning",

"arid kecil" (small hook for harvesting the cacao fruits),

"Sampung-sampung",

"prunning/light prunning",

spray tank for irrigation,

Sanitation (prevents diseases, pest & rats),

Irrigation management (dig water channels in cacao plots to reduce the work intensity in time of drought and keeping the soil wet)

Terrace building at cacao plots (protection against landslides and erosion of the soil + hold humus and nutrition of soil better)

changes in planting methods e.g. more distanced for cacao (old 3*3m, new 4*2,5m),

bamboo stick technique (2m*10cm),

bucket & hole technique (digging a 20cm hole around each tree, filling up with water and putting leaves on the top),

bottle/bamboo drops-technique (fill with water- seal it- going a small hole inside and install it upside down above the young plant)