



PARTICIPATORY QUALITY INDEX – IQP PARANA 3 WATERSHED

DIAGNOSTIC QUESTIONNAIRE



QUALIDADE NO PLANTIO DIRETO

City/Watershed: _____

Name: _____ Phone: _____

Mail address: _____

E-mail: _____

Municipality: _____ Micro watershed: _____

Property name : _____ Declared area (ha) (alq): _____

GPS point (headquarters) (decimal degrees): Latitude _____ Longitude _____

I agree with the disclosure of my name: () yes () no

I agree with the disclosure of this information: () yes () no

1. Area under no-tillage on the Property: _____ ha or _____ alq

2. Total Property Area: _____ ha or _____ alq

3. Are you satisfied with the No Till system in the straw that you carry out?

() yes

() no

4. How do you rate your no-till system?

() bad

() reasonable

() good

() excellent

5. For you, what are the degrees of problems or difficulties in using the no-till system? (1 - great importance, 2 - intermediate importance, 3 - little importance, 0 - not important)

() difficulty in controlling persistent wild plants (bushes and others);

() difficulty with pest control;

() difficulty with disease control;

() difficulty in forming the proper straw;

() difficulty with inadequate terracing;

() difficulty in establishing crop rotation;

() risk of water contamination by pesticides;

() abusive use of pesticides;

() excessive crop compaction;

() excessive compaction in headlands and machine maneuvering areas;

() machinery (seeding machines) not suitable;

() lack of adequate technical assistance;

() excessive costs;

() others;

() none.

5. How long have you been using the no-till system on your property? _____years

6. In your opinion, what is the importance of No Till System use ? (1 – *great importance*, 2 – *intermediate importance*, 3 – *little importance*, 0 – *not important*)

- drought risk reduction;
- erosion risk reduction;
- soil conservation (broad look);
- increased productivity;
- increase in organic matter content
- increased biodiversity;
- improvement in water quality;
- cost reduction;
- reduced wear on the machinery;
- less time spent on operations;
- others;
- none.

7. In your opinion, is there any farmer who can be considered a reference in terms of establishing a quality no-till system in their micro watershed?

Name of Farmer: _____(or)

Name of property: _____

- all alike
- do not know

8. Do you carry out level farming operations?

- yes
- no

9. Do you have terraces on your property?

- yes
- no

9.1. Do you see water flowing over terraces during heavy rainy days?

- never in the last five years;
- one or two times in the last five years
- three or more times in the last five years

10. Do you see erosion (ditches or earth accumulation) in your crop?

- yes
- no

10.1. This erosion is the effect of an upper land or road?

- yes
- no

11. After sowing, little or no straw remains on the row?

- yes
- no

12. In your assessment, your soil is compacted?

- yes
- no

12.1. Where does compaction occur?

- compaction throughout the crop
- compaction only in the headboards

13. How often do you prepare the soil in the no-till system?

() Don't do
Every _____years.

13.1. Why do you tillage?(you can mark more then one option

- () compaction in the headboards;
- () compaction in the terraces channels ;
- () difficulty in controlling spontaneous plants;
- () compaction in the whole crop by annual crops;
- () compaction in the whole crop due to silage;
- () need for the crop (oats, cassava, tobacco, etc.);
- () other;
- () never.

14. How many months of the year does the soil have little coverage?

() never
For _____months

15. What crops have you planted in the last 3 years?

To fill in use the following code:

(1) soya season	(2) corn season	(3) other season	(4) soya off-season	(5) corn off-season	(6) weath
(7) black oat	(8) another winter	(9) silage	(10) tobacco	(11) cassava	(12) fallow
Another off-season					

1^a Plot

Last Year

Seas on	Off-season	Winter

Year before

Seas on	Off-season	Winter

Two years before

Seas on	Off-season	Winter

2^a Plot

Last year

Seas on	Off-season	Winter

Year before

Seas on	Off-season	Winter

Two years before

Seas	Off-	Winter
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on	season	

3^a Plot

Last year

Season	Off-season	Winter

Year before

Season	Off-season	Winter

Two years before

Season	Off-season	Winter

16. Which animals grazing in your area under no-tillage system during the winter?

- milk cattle
- beef cattle
- no cattle

16.1. If you have grazing animals, how many days before sowing are the animals removed? _____ days.

17. Have you ever seen earthworm in your farm?

- yes
- no
- I never noticed

17.1. Are they all the same or do you notice the difference between them?

- same
- different
- I don't know

17.2. Earthworms are good or bad for your crop?

- good
- bad

17.3. How? (you can choose more than one option)

- increase soil porosity ;
- increase soil fertility (chemical
- they are good quality soil indicators
- cause damage to plants and/or soil;
- others;
- none.

18. Do you observe any other type of organism in your crop?

- yes
- no

18.1. Which? (1 – for more frequent, 2 – for the second more frequent, 3 – for the third more frequent)

- beetle
- Diloboderus
- spiders

- centipedes
- grilos
- ants
- termites
- slugs
- bugs
- others

18.2. They are good or bad for your crop?(

- good
- bad

19. Do you use bovine or swine manure or poultry litter in your farm?(

- yes
- no

19.1. How many times a year and in what quantity?

Bovine: _____(ton) (liters) (m³) on _____(ha) (alq) for each _____(months) (years)

Pig: _____(liters) (m³) on _____(ha) (alq) for each _____(months) (years)

Aviary bed: _____(ton) (liters) (m³) on _____(ha) (alq) for each _____(months) (years)

20. When you use organic fertilizer, you also use chemistry?(

- yes
- no

20.1. When you use both forms of fertilization, the nutrient balance is made?

- yes
- no

21. Do you follow technical criteria/guidelines for conducting the crop ?

- yes
- no

21.1. Who provides guidance?

- cooperative
- public (EMATER, municipality)
- private (planning firms, consultants)
- NGO
- other _____