

- 1 **Relationships of perception of health risks by use of pesticides: A Man-Environment look.**
- 2 **Journal Human Ecology**
- 3 **Appendix A1. Additional information on Materials & Methods.**
- 4 *Table A1 Questionnaire of study.*

| Questionnaire                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BLOCO I –<br>SOLOCIODEMOGRAPHIC<br>AND AGRARIAN<br>STRUCTURE                                                            | 1. Gender: ( ) M ( ) F. 2. Age: ( ) Between 20 and 29 years ( ) Between 30 and 39 years ( ) Between 40 and 49 years ( ) Between 50 and 59 years ( ) Over 60 years. 3. Education level: ( ) Illiterate ( ) From the 1st to 4th incomplete grade ( ) Incomplete Elementary School since 5th grade ( ) Complete Elementary School ( ) Incomplete High School ( ) Complete High School ( ) Incomplete Higher Education ( ) Complete Higher Education. 4. Which crops produce? _____ Classe: ( ) Fruit ( ) Vegetables ( ) Legumes ( ) Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| BLOCK II - WORK<br>PRACTICES RELATED<br>TO THE USE OF<br>PESTICIDES (Appendix A<br>of the Ministry of<br>Health/Brazil) | <p>1. Do you use pesticides for crop pest management? ( ) Yes ( ) No . 1.1. What type of pesticide uses: ( ) Insecticide ( ) Fungicide ( ) Herbicide ( ) Others. Pesticide name: _____.</p> <p>2. How often do you use pesticides? ( ) Whenever I can (If necessary) ( ) Rarely – I try to avoid ( ) Never – I prefer not to use</p> <p>3. Where do you buy pesticides? ( ) Agricultural House ( ) Sellers of resales - External ( ) Sellers "Travelling" unknown</p> <p>4. Do you receive technical guidance to acquire pesticides? ( ) From Agronomist Engineer of resale ( ) To Autonomous Agronomist ( ) From Resale Clerk ( ) From Neighbors who indicate ( ) Does not receive guidance</p> <p>5. Do you know the agronomic recipe document and receive it at the time of the purchase of pesticides? ( ) Yes ( ) Yes, but does not receive the route. ( ) Do not know and do not receive the document</p> <p>6. Do you read the Agronomic Prescriptions provided by agronomy professionals? ( ) Does not read ( ) Reads partially ( ) Only when you want to remember the dose</p> <p>7. Do you read the labels and leaflets of pesticides? ( ) Yes ( ) No</p> <p>8. Knows how to identify and verify the toxicology classification when acquiring pesticides: Class I – Extremely toxic Class II - Highly toxic Class III - Medium toxic Class IV - Little toxic ( ) Yes ( ) No. 8.1. How do you check? ( ) By the color of the track ( ) Reading the Label and/or bull ( ) Reading the Agronomic Recipe ( ) Other.....</p> <p>9. Do you understand the meanings of pictograms printed on pesticide labels? ( ) Yes, ( ) Yes but do not adopt the instructions ( ) No, do not understand the meaning ( ) No, do not think it is important.</p> <p>10. Do you use PPE for pesticide application? ( ) Yes ( ) Does 10.1. Se use: - How and how often? ( ) Yes, complete ( ) Whenever I can, yes necessary ( ) Rarely, I try to avoid ( ) Never, Prefer not to use. 10.2.- What EPIs do you use? ( ) Gloves; Mask.; Long sleeve shirt; ( ) Other.</p> <p>11. After the end of the pesticides in the packaging what does it do? ( ) Play off; ( ) Plays somewhere (hole); ( ) Pierces the bottom of the packaging; ( ) Burning; ( ) I leave in the crop and collect later; ( ) It does triple washing; ( ) Promotes return at the indicated place; ( ) Guard in covered tank more open; ( ) Guard in covered and closed storage; ( ) Guard in shed with insums / implements; ( ) Takes proper care; ( ) Take partial care.</p> <p>10.3. What special attention does clothing and EPIs pay after the use of pesticides? ( ) Change and put to wash along with other family clothes; ( ) Exchange and give special attention to them; ( ) others;</p> <p>11. When preparing the syrup or applying pesticides do you recommend that children, animals and other people, who are not work-related, move away from the environment (place of application)? ( ) Yes. ( ) No. ( ) I do not care about the presence.</p> <p>12. Do you always prepare the recommended dosage of pesticides and use it for the indicated crop? ( ) Yes, I follow the instructions to the letter, always. ( ) No, I prepare according to intuition ( ) No, sometimes I put the most and / or use in cultures other than those recommended in the Recipe ( ) No, sometimes I put less.</p> <p>13. After the end of the packaging pesticide what does it do? ( ) Play off. ( ) I leave in the crop, collect posteriorly ( ) Throws somewhere (Hole) ( ) Burning ( ) Burys ( ) Burns and buries ( ) Takes partial care ( ) Guard Together with full packages ( ) Guard in covered but open storage ( ) Guard along with rations/ food ( ) Store in shed with insums /implements ( ) Takes proper care ( ) Makes triple washes ( ) Drills the bottom of the packaging ( ) Guard in covered and closed tank ( ) Promotes the return at the indicated place</p> |
| BLOCK III - HEALTH OF<br>RURAL PRODUCERS<br>RELATED TO THE USE<br>OF PESTICIDES                                         | 1. Have you ever suffered any pesticide poisoning or has anyone in the family ever experienced symptoms of pesticide poisoning? 2. How to: Ardor in the throat and lungs, Congestion of the airways, Cramp, Flaking (scaly or scabbard-looking skin), Diarrhea, Headache, Chest pain,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | Weakness, Cough, Irritation of the mouth and throat, Irritation in the eyes, Irritation (dry and cracked skin) , Change of skin color (yellowish or reddish areas), Nausea, Hoarseness, Dizziness, Abnormal sweating, Others. ( ) Yes. ( ) No. 3. Which? 2. Do you know someone who has already fallen ill because of the use of pesticides: ( ) Yes ( ) No<br>What symptoms have you had from the use of pesticides? _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| BLOCK IV -<br>IMPORTANCE OF<br>INSTITUTIONS | 1.Has already received a visit from a professional to pass on information on the use of pesticides ( ) Yes ( ) No<br>2. Have you ever looked for an institution (Teaching or Research) to obtain information? ( ) Yes ( ) No;<br>3. Do you think this institution (Teaching or Research) can help them with respect to the correct use of pesticides? ( ) Yes ( ) No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| BLOCK V - ECOLOGICAL<br>PERCEPTION          | 1. Has already found in a time of 10 years, several animals (local fauna) killed in places near or within the swiddens. ( ) Yes ( ) No Which? _____<br>2. Have you observed in a time of 10 years, that species of plants (local flora) have never seen you near or inside the swiddens ( ) Yes ( ) No Which? _____<br>3. Do you think that these losses of terrestrial flora and fauna are in relation to the use of pesticides? ( ) Yes ( ) No<br>4. Have you observed in a time of 10 years that species of aquatic plants or animals on the banks of the São Francisco River, near the swiddens, reproduce less or live? ( ) Yes ( ) No Which? _____<br>5.-Do you think these changes are in relation to the use of pesticides? ( ) Yes ( ) No<br>6.-Do you think that the quality of the river water is not good if the residues of the allowances and chemical substances of labors will end up on the banks of the São Francisco River? ( ) Yes ( ) No.<br>7-Do you think that with the use of pesticides the soils of crops can be harmed (if the soil is able to retain a large amount of contaminants over time, then these pesticides can weaken their fertility and could decrease soil biodiversity, cause acidity, among other problems)? ( ) Yes ( ) No<br>7. . What elements of flora and fauna have you noticed differently in the environment? Larger words indicate higher frequencies of occurrence and, therefore, reflect greater attention of the fisherman in relation to a certain aspect related to their perception. |