

Relationships of perception of health risks by use of pesticides: A Man-Environment look.

Journal Human Ecology

Appendix A2. Additional information on Materials & Methods.

Appendix A2.-DATA BASE

Table 1: Characterization of riparian farmers studied in the municipalities of Petrolina/PE and Juazeiro/BA, 2022.

	UBS Josefa Bispo, Petrolina/EP		UBS NH4, Juazeiro/BA	
	n	%	n	%
Farmers studied				
men	30	50	30	50
Women	30	50	30	50
Age group in years				
20-29	12	20	15	25
30-39	17	28,33	19	31,67
40-49	16	26,67	14	23,33
50-59	11	18,33	7	11,67
But from 60	4	6,67	5	8,33
Education level				
Illiterate	0	0	0	0
From 1 ^{to} 4 the incomplete series	2	3,33	1	1,67
Incomplete Elementary School (since the 5 th series)	25	41,67	27	45
Complete Elementary School	12	20	11	18,33
Incomplete High School	13	21,67	9	15
High School Completo	7	11,67	9	15
Higher Education Incompleto	1	1,67	1	1,67
Higher Education Completo	0	0	2	3,33
Working relationship				
Owner	2	3,33	4	6,67
Wage earner	32	53,33	30	50
Familiar	1	1,67	6	10
Meeiro/Tenant	0	0	6	10
Contract per night	9	15	8	13,33
Contract in harvest season	10	16,67	6	10
Other	6	10	6	10
T morning of the Planting Area				
Less than 1 ha	1	1,67	6	10

1 to 5 ha	5	8,33	12	20
5 to 10 ha	9	15	12	20
10 to 20 ha	11	18,33	0	0
20 a 30 ha	10	16,67	0	0
Above 30ha	24	40	30	50
Culture working				
Fruit	60	100	60	100
Vegetables	3	5	0	0
Legumes	1	1,67	0	0
Other	3	5	6	10

Source: Authors' questionnaire through the application [in http://bubble.oi/about](http://bubble.oi/about), 2022.

Relationships of perception of work practices with the use of pesticides

Table 2: Work practices related to the use of pesticides of riverside farmers studied in the municipalities of Petrolina/PE and Juazeiro/BA, 2022.

	UBS Josefa Bispo, Petrolina/EP		UBS NH4, Juazeiro/BA		Risk perception	
	n	%	n	%	Yes	No
1-Do you use pesticides for crop pest management?						
Yes	60	100	60	100		
No	0	0	0	0		
1.1-What kind of pesticide do you use?						
Insecticide	58	96,67	57	95		
Fungicide	10	16,67	15	25		
Herbicide	11	18,33	12	20		
Other	2	3,33	3	5		
2-How often do you use pesticides?						
Whenever I can (If necessary)	55	91,67	60	100		x
Rarely - I try to avoid	5	8,33	0	0	x	
Nunca - I prefer not to use	0	0	0	0	x	
3-Where do you get the pesticides?						
Agricultural House	49	81,67	54	90	x	
Sales sellers - External	7	11,67	6	10		x
Unknown "Street Walker" Vendors	4	6,67	0	0		x
4 - Do you receive technical guidance to acquire pesticides?						
From Agronomist Engineer of resale	19	31,67	30	50	x	
From Self-Employed Agronomist	28	48,67	10	16,67	x	
From Resale Clerk	3	5	0	0	x	
From Neighbors who indicate	1	1,67	6	10		x

Does not receive guidance	9	15	6	10		x
5- Do you know the agronomic recipe document and receive it at the time of the purchase of pesticides?						
Yes	43	71,67	24	40	x	
Yes, but you don't get the route	8	13,33	6	10		x
Do not know and do not receive the document	9	15	30	50		x
6- Do you read the Agronomic Prescriptions provided by agronomy professionals?						
Don't read	30	50	0	0		x
Reads partially	23	38,33	30	50		x
Always reads when provided	3	5	0	0	x	
Only when you want to remember the dose	4	6,67	30	50	x	
7- Do you read the labels and leaflets of pesticides?						
Yes	29	48,33	54	90	x	
No	31	51,67	6	10		x
8-Do you know how to identify and verify toxicology classification when purchasing pesticides: Class I - Extremely toxic Class II - Highly toxic Class III - Medium toxic Class IV - Little toxic?						
Yes	28	48,67	54	90	x	
No	32	53,33	6	10		x
8.1-Dand what form does it check?						
By the color of the band	16	26,67	24	40	x	
Reading the Label and/or package leaflet	12	20	10	16,67	x	
Reading the Agronomic Recipe	2	3,33	20	33,33	x	
Other	0	0	0	0		x
9- Do you understand the meanings of pictograms printed on pesticide labels?						
Yes	11	18,33	30	50	x	
Yes, but do not adopt the instructions	5	8,33	6	10		x
No, you don't understand the meaning	34	56,67	18	30		x
No, you don't think it's important.	10	16,67	6	10		x
10 - Do you use EPIs for pesticide application?						
Yes	54	90	30	50	x	
No	6	10	30	50		x
10.1- Using: - How and how often?						
Yes, complete	47	78,33	54	90	x	
Sempre i can, yes needed	2	3,33	0	0		x

I rarely try to avoid	5	8,33	6	10		x
Never, I prefer not to use	6	10	0	0		x
10.2-What EPIs do you use?						
Key money	52	86,67	54	90	x	
Mask	54	90	60	100	x	
Long sleeve shirt	54	90	54	90	x	
other	0	0	0	0	x	
10.3 - What special attention does clothes and EPIs give after the use of pesticides?						
Change and put to wash along with other family clothes	13	21,67	6	10		x
Exchange and pay special attention to them	47	78,33	54	90	x	
other	0	0	0	0		x
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	52	86,66	59	98,33	x	
No	6	10	0	0		x
I don't care about the presence	2	3,33	1	1,67		x
12.-Does it respecting the recommended dosage of pesticides and use it for the indicated crop?						
Yes, I follow the instructions to the letter, always.	38	63,33	57	95	x	
No, I prepare according to intuition	22	36,67	1	1,67		x
No, sometimes I put the most and/or use in crops other than those recommended in the Recipe	0	0	2	3,33		x
No, sometimes I put down to less	0	0	0	0		x
13-After the end of the packaging pesticide what does it do?						
Playing outside	8	13,33	6	10		x
Play somewhere (hole)	2	3,33	6	10		x
Sticks the bottom of the packages	7	11,67	6	10		x
Burning	3	5	6	10		x
I leave in the crop and collect later	2	3,33	6	10		x
Does triple wash	1	1,67	12	20	x	
Promotes return at the indicated place	25	41,67	12	20	x	
More open covered storage guard	3	5	2	3,33		x
Guard in covered and closed storage	2	3,33	1	1,67	x	

Guard in shed with insumos / implements	2	3,33	2	3,33		x
Take proper care	7	11,67	6	10	x	
Take partial care	2	3,33	0	0		x

Source: Authors' questionnaire through the application in <http://bubble.oi/about>, 2022.

Table 3: Morbidity reported by riverside farmers related to the use of pesticides in the municipalities of Petrolina/PE and Juazeiro/BA, 2022.

	UBS Josefa Bispo, Petrolina/EP		UBS NH4, Juazeiro/BA		Risk perception	
	n	%	n	%	Yes	No
1-Have you ever experienced any pesticide poisoning or has anyone in the family ever experienced symptoms of pesticide poisoning? 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	20	33,33	12	20	x	
No	40	66,67	48	80		x
2-Do you know anyone who has ever fallen ill because of the use of pesticides?						
Yes	32	53,33	30	50	x	
No	28	48,67	30	50		x

Source: Authors' questionnaire through the application in <http://bubble.oi/about>, 2022.

Table 4: Importance of municipal institutions related to the use of pesticides in the municipalities of Petrolina/PE and Juazeiro/BA, 2022.

	UBS Josefa Bispo, Petrolina/EP		UBS NH4, Juazeiro/BA		Risk perception	
	n	%	n	%	Yes	No
1-Have you ever received a visit from a professional to pass on information about the use of pesticides?						
Yes	27	45	30	50	x	
No	33	55	30	50		x
2-Have you ever looked for an institution (Teaching or Research) to obtain information?						
Yes	17	28,33	30	50	x	

No	43	71,67	30	50		x
3- Do you think that this institution (Teaching or Research) can help them with respect to the correct use of pesticides?						
Yes	55	91,67	60	100	x	
No	5	8,33	0	0		x

Source: Authors' questionnaire through the application [in http://bubble.oi/about](http://bubble.oi/about), 2022.

Table 5: Ecological perception of riverside farmers related to the use of pesticides in the municipalities of Petrolina/PE and Juazeiro/BA, 2022.

	UBS Josefa Bispo, Petrolina/EP		UBS NH4, Juazeiro/BA		Risk perception	
	n	%	n	%	Yes	No
1-Have you found in a time of 10 years, several animals (local fauna) killed in places near or within the gardens?						
Yes	20	33,33	12	20	x	
No	40	66,67	48	80		x
2-Have you noticed in a time of 10 years that some plant species have never seen you again?						
Yes	28	48,67	12	20	x	
No	32	53,33	48	80		x
3-Do you think that these losses of terrestrial flora and fauna are in relation to the use of pesticides?						
Yes	50	83,33	12	20	x	
No	10	16,67	48	80		x
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, that reproduce less or live?						
Yes	50	83,33	30	50	x	
No	10	16,67	30	50		x
5-Do you think that these changes in aquatic biota are in relation to the use of pesticides?						
Yes	50	83,33	30	50	x	
No	10	16,67	30	50		x
6-Do you think the quality of the river water is not good if the fertilizer residues and chemicals from the crops will end up on the edge of the San Francisco River?						
Yes	40	66,67	54	90	x	
No	20	33,33	6	10		x

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	58	96,67	54	90	x	
No	2	3,33	6	10		x

Source: Authors' questionnaire through the application [in http://bubble.oi/about](http://bubble.oi/about), 2022.