

Situational study of the drinking water quality in Quilombola communities in the municipality of São Luís Gonzaga, MA, **Brazil**









Márcia A. van der Boor



Ministério da Saúde



Objectives

- ❖ To diagnose the public distribution systems and water quality in the 'Quilombola Communities' of São Luís Gonzaga do Maranhão, MA, Brazil, through visual inspections and microbiological analysis;
- And verify the parameters of the microbiological quality of the drinking water consumed by their general population in relation to the norms, concerning drinking water quality, established in 'Decree 2914/2011' of the Brazilian Ministry of Health.



Results .

Where does the Water used by the Community come from?	% of Quilombola Communities	
Surface Water	0%	
Subterranean Water	100%	
Surface + Subterranean Water	0%	

What Type Of treatment does the Water receive?	% of Quilombola Communities	
Conventional (Full Treatment)	0%	
Only Filtration	0%	
Only Disinfection	0%	
Filtration + Disinfection	0%	
No Treatment at all	100%	

What Type of Well do	% of		
they use to Withdraw	Quilombola		
the Water?	Communities		
Tube Well	75%		
Open Well	25%		
Tube + Open Well	0%		



Simplified Water Supply System (Tube Well)



Open Well

Results . .

Is there a Distribution Network	% of	
between the Tubular Well and the	Quilombola	
Houses?	Communities	
Yes	83%	
No	17%	



Y.	Does the System	% of		
	Provide a Continuous	Quilombola Communities		
	Supply of Water?			
	Yes	0%		
	No	100%		









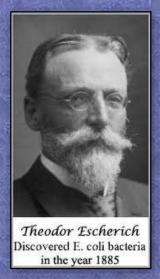


Results . . .

Microbiological diagnostic of the quality of the drinking water consumed in the 12 communities with Tubular Wells that participated in this study.

Name of the	Nr of	Positive	% with	Positive for	% with
Quilombola	samples	for Total	Total	Escherichia	Escherichia
Community		Coliforms	Coliforms	coli	coli
Morada Nova	3	3	100%	3	100%
Potozinho	2	2	100%	0	0%
Pedrinhas	1	1	100%	0	0%
Potó Velho	2	2	100%	2	100%
Monte Alegre	3	3	100%	3	100%
Olho d'Água	2	2	100%	0	0%
dos Grilos	I Park	/ YE.		VX CO	
Santarém	4	4	100%	0	0%
Santa Rita	3	3	100%	0	0%
Mata Burro	3	3	100%	1	33%
Promissão	3	3	100%	0	0%
Coheb	4	4	100%	2	50%
Vale Verde	5	/ 5	100%	3	60%
TOTAL	35	35	100%	14	40%





Thank you for your attention!





Márcia A. van der Boor marcia.boor@funasa.gov.br