Food deserts and swamps in major Brazilian cities: an analysis of inequities of race, income, and territory

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Supplementary Table 1. Characteristics of establishments that sell food of census tracts (n = 220,576) of Brazilian municipalities with more than 100,000 inhabitants (n=319) in 2022.

Type of food establishment	Mean	SD	Min/Max
Brazil			
Fresh/minimally processed	0.69	2.46	0-192
Processed	0.20	0.67	0-39
Ultra-processed	1.36	4.22	0-437
Bakeries	0.18	0.61	0-38
Bars	0.02	0.19	0-8
Butcher shops	0.02	0.15	0-30
Candy shops	0.05	0.37	0-47
Canteens	0.01	0.12	0-7
Convenience stores	0.02	0.18	0-9
Dairy and cold cuts shops	0.02	0.18	0-17
Fish markets	0.01	0.16	0-21
Greengrocers (fruit and vegetable stores)	0.06	0.56	0-113
General food stores or unspecified	0.16	1.03	0-349
Hypermarkets	0.01	0.11	0-6
Prepared food outlets	0.08	0.39	0-26
Restaurants	0.45	1.86	0-169
Off-premise beverage retail	0.11	0.44	0-32
Mini-markets	0.29	1.00	0-130
Snack bars	0.40	1.84	0-230
Street vendors	0.02	0.15	0-9
Supermarkets	0.08	0.38	0-28
Center-west Region			
Fresh/minimally processed	0.98	2.65	0-93
Processed	0.32	0.81	0-19
Ultra-processed	1.95	4.04	0-130
Butcher shops	0.11	0.42	0-9
Bakeries	0.23	0.63	0-15
Bars	0.04	0.25	0-7
Candy shops	0.05	0.33	0-11
Canteens	0.01	0.09	0-2
Convenience stores	0.05	0.27	0-8

Dairy and cold cuts shops	0.03	0.18	0-5
Fish markets	0.15	0.15	0-5
Fruit and vegetable markets	0.07	0.64	0-59
General food stores or unspecified	0.24	0.81	0-27
Hypermarkets	0.01	0.12	0-3
Prepared food outlets	0.08	0.35	0-8
Restaurants	0.63	2.13	0-86
Off-premise beverage retail	0.21	0.58	0-19
Mini-markets	0.38	0.88	0-5
Snack bars	0.48	1.67	0-72
Street vendors	0.23	0.17	0-7
Supermarkets	0.15	0.50	0-12
Northeast Region			
Fresh/minimally processed	0.64	2.71	0-131
Processed	0.22	0.78	0-39
Ultra-processed	1.06	3.85	0-241
Butcher shops	0.66	0.42	0-30
Bakeries	0.16	0.62	0-36
Bars	0.02	0.17	0-8
Candy shops	0.04	0.32	0-18
Canteens	0.01	0.08	0-3
Convenience stores	0.25	0.20	0-9
Dairy and cold cuts shops	0.03	0.25	0-12
Fish markets	0.01	0.18	0-20
Fruit and vegetable markets	0.06	0.92	0-113
General food stores or unspecified	0.14	0.73	0-41
Hypermarkets	0.01	0.12	0-4
Prepared food outlets	0.06	0.30	0-7
Restaurants	0.41	1.93	0-111
Off-premise beverage retail	0.09	0.42	0-2
Mini-markets	0.37	1.47	0-130
Snack bars	0.31	1.69	0-143
Street vendors	0.02	0.15	0-4
Supermarkets	0.06	0.35	0-19

North Region			
Fresh/minimally processed	0.49	1.89	0-68
Processed	0.16	0.58	0-20
Ultra-processed	1.11	3.31	0-135
Butcher shops	0.06	0.37	0-14
Street vendors	0.01	0.12	0-5
Bars	0.02	0.16	0-8
Off-premise beverage retail	0.08	0.36	0-14
Canteens	0.01	0.08	0-3
Convenience stores	0.03	0.22	0-4
Candy shops	0.03	0.23	0-7
General food stores or unspecified	0.12	0.56	0-20
Hypermarkets	0.01	0.10	0-3
Fruit and vegetable markets	0.04	0.66	0-67
Snack bars	0.21	1.01	0-26
Mini-markets	0.37	1.30	0-5
Dairy and cold cuts shops	0.02	0.15	0-5
Bakeries	0.12	0.48	0-15
Fish markets	0.02	0.15	0-5
Prepared food outlets	0.04	0.23	0-5
Restaurants	0.29	1.32	0-37
Supermarkets	0.07	0.36	0-14
Southeast Region			
Fresh/minimally processed	0.63	2.30	0-192
Processed	0.17	0.60	0-38
Ultra-processed	1.28	4.32	0-437
Butcher shops	0.08	0.39	0-14
Bakeries	0.17	0.60	0-15
Bars	0.02	0.17	0-8
Candy shops	0.05	0.39	0-7
Canteens	0.01	0.13	0-3
Convenience stores	0.02	0.15	0-4
Dairy and cold cuts shops	0.02	0.16	0-5
Fish markets	0.01	0.15	0-5
Fruit and vegetable markets	0.06	0.41	0-67

General food stores or unspecified	0.15	1.19	0-20
Hypermarkets	0.01	0.10	0-3
Prepared food outlets	0.08	0.41	0-5
Restaurants	0.39	1.74	0-37
Off-premise beverage retail	0.09	0.41	0-14
Mini-markets	0.22	0.78	0-5
Snack bars	0.40	1.92	0-26
Street vendors	0.02	0.15	0-5
Supermarkets	0.07	0.36	0-14
South Region			
Fresh/minimally processed	1.01	2.88	0-85
Processed	0.27	0.74	0-23
Ultra-processed	1.99	4.67	0-144
Butcher shops	0.07	0.33	0-9
Bakeries	0.25	0.71	0-23
Bars	0.04	0.24	0-6
Candy shops	0.06	0.39	0-14
Canteens	0.01	0.13	0-3
Convenience stores	0.03	0.22	0-5
Dairy and cold cuts shops	0.02	0.13	0-5
Fish markets	0.01	0.14	0-10
Fruit and vegetable markets	0.06	0.37	0-22
General food stores or unspecified	0.24	0.83	0-30
Hypermarkets	0.02	0.15	0-4
Prepared food outlets	0.13	0.45	0-9
Restaurants	0.72	2.33	0-58
Off-premise beverage retail	0.16	0.53	0-10
Mini-markets	0.39	1.00	0-39
Snack bars	0.56	2.03	0-50
Street vendors	0.02	0.15	0-4
Supermarkets	0.11	0.42	0-15

Average number of establishments that sell food by census tract in Brazil and by macro-region. The values are presented as mean, standard deviation (SD), and minimum and maximum values observed for each type of establishment.