

Unravelling the Influence of Household Characteristics and Decisions on their Carbon Footprint: A Quantile Regression Analysis

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Table S1-1 – Average consumption shares (in % of total) by consumption items and income deciles

Items	Sub-categories	D ₁	D ₂	D ₃	D ₄	D ₅	D ₆	D ₇	D ₈	D ₉	D ₁₀	Average
Food		23.23	23.85	22.92	23.47	22.14	21.45	20.49	20.55	19.13	17.61	21.48
	Food and non-alcoholic beverages	19.23	20.30	19.11	19.74	18.72	18.23	17.60	17.64	16.71	15.28	18.26
	Alcoholic beverages	4.00	3.55	3.81	3.73	3.41	3.22	2.89	2.90	2.42	2.32	3.23
Market service		16.98	17.41	18.72	18.20	18.16	17.61	16.97	16.41	15.73	15.52	17.17
	Financial and insurance services	11.50	12.99	14.22	14.27	14.25	13.71	13.37	12.87	12.05	11.06	13.03
	Communications	5.49	4.42	4.50	3.93	3.91	3.89	3.61	3.54	3.68	4.46	4.14
Energy		15.55	14.93	13.27	12.29	11.10	10.43	9.86	9.06	8.63	8.37	11.35
Non-market service		3.54	3.49	3.62	3.52	3.62	3.60	3.75	4.12	3.68	3.45	3.64
	Health	1.77	2.03	2.05	2.21	2.06	1.92	2.06	2.03	2.02	1.67	1.98
	Miscellaneous services	0.32	0.69	1.08	0.83	1.03	1.26	1.22	1.64	1.20	1.02	1.03
	Education	1.45	0.77	0.49	0.49	0.53	0.42	0.46	0.45	0.46	0.76	0.63
Manufactured goods		13.97	14.45	14.46	14.13	14.95	15.76	16.32	16.95	16.36	16.81	15.42
	Clothes	6.73	6.40	5.72	5.12	5.13	4.87	4.92	4.98	5.64	4.87	5.44
	Furniture	3.51	4.36	4.16	4.01	4.39	4.59	4.60	4.95	4.47	4.66	4.37
	Pharmaceuticals	0.19	0.20	0.22	0.33	0.34	0.30	0.59	0.36	0.34	0.39	0.32
	Miscellaneous goods	0.47	0.42	0.49	0.48	0.47	0.50	0.55	0.67	0.73	0.77	0.56
	New vehicle	2.56	2.66	3.53	3.86	4.27	5.24	5.34	5.66	4.90	5.88	4.39
	Home appliances	0.52	0.42	0.33	0.33	0.33	0.27	0.32	0.35	0.27	0.24	0.34
Transport		9.40	8.89	8.62	8.78	8.95	9.55	9.48	9.03	9.49	9.46	9.17
	Fuel	3.81	4.24	4.56	4.55	4.56	4.55	4.74	4.01	4.16	3.22	4.24
	Transport equipment	1.69	1.88	1.92	1.93	2.03	2.23	2.01	2.06	1.92	1.90	1.96
	Train transport	0.94	0.55	0.45	0.41	0.40	0.50	0.57	0.50	0.69	0.83	0.58
	Air transport	0.60	0.25	0.17	0.30	0.36	0.38	0.41	0.50	0.47	0.79	0.42
	Land transport	0.58	0.40	0.25	0.23	0.21	0.26	0.15	0.14	0.12	0.20	0.25
	Sea transport	0.09	0.04	0.02	0.03	0.08	0.02	0.02	0.04	0.05	0.04	0.04
	Other transport	1.69	1.53	1.24	1.33	1.31	1.61	1.58	1.79	2.09	2.49	1.67
Culture & entertainment		15.97	14.91	16.01	16.83	18.05	17.97	19.04	19.23	21.01	22.55	18.16
	Recreational goods and services	10.74	10.18	10.75	11.37	12.05	11.89	12.55	12.39	13.33	13.51	11.88
	Hotels and restaurants	5.23	4.74	5.26	5.46	6.00	6.08	6.49	6.84	7.68	9.04	6.28
Construction		1.35	2.06	2.37	2.78	3.04	3.64	4.08	4.65	5.96	6.25	3.62

Note: The table shows the percentage allocation of the total budget by income source, ordered in increasing order. It excludes expenses related to rent, taxes, and subsidies.

Lecture: On average, a household belonging to the first income decile (D₁) allocates 23.23% of its budget to food consumption.

Field: 12,081 Metropolitan households for 2017.

Source: INSEE, *Enquête Budget de Famille*, 2017, SDES, *Enquête sur la mobilité des personnes*, 2019.

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Table S1-2 – Descriptive statistics of the variables of interest

Name	Attribute	Frequency (in %)	Mean	Median	Standard deviation	Min	Max
Number of individuals			2.37	2	1.28	1	10
Respondent's age			53.03	52	16.77	16	102
	18-34	15.21	0.15	0	0.36	0	1
	35-54	39.43	0.39	0	0.49	0	1
	55-70	28.71	0.29	0	0.45	0	1
	+70	16.65	0.17	0	0.37	0	1
Education level			2.15	2	0.95	1	4
	No education	27.47	0.27	0	0.45	0	1
	Upper secondary	41.54	0.42	0	0.49	0	1
	First tertiary	19.82	0.20	0	0.40	0	1
	Second tertiary	11.17	0.11	0	0.32	0	1
Tenancy status			1.41	1	0.53	1	3
	Owner	60.86	0.61	1	0.49	0	1
	Tenant	37.17	0.37	0	0.48	0	1
	Free lodging	1.98	0.02	0	0.14	0	1
Disposable income			35,477.53	30,609	24,085.57	0	706,008
Geographic location			2.50	3	0.70	1	3
	Urban	12.31	0.12	0	0.33	0	1
	Peri-urban	25.20	0.25	0	0.43	0	1
	Rural	62.49	0.62	1	0.48	0	1
Type of dwelling			1.00	1	0.00	1	1
	House	63.50	0.64	1	0.48	0	1
	Building	36.50	0.36	0	0.48	0	1
Home energy source			2.22	2	1.13	1	5
	Electricity	30.73	0.31	0	0.46	0	1
	Gas	37.65	0.38	0	0.48	0	1
	Fuel and coal	12.97	0.13	0	0.34	0	1
	Renewables	15.87	0.16	0	0.37	0	1
	Other	2.78	0.03	0	0.16	0	1
Number of vehicles			1.30	1	0.86	0	9

Note: To give an accurate picture, we disaggregate the levels (Attribute) of the categorical variables. For these variables, we present the frequency ratio, expressed in percentage. The frequency ratio is the number of occurrences over the number of observations. Log-transformed variables are kept in raw data in this table.

Lecture: The median disposable income of households is around €30,609 yearly. Over 64% of surveyed households are living in a house.

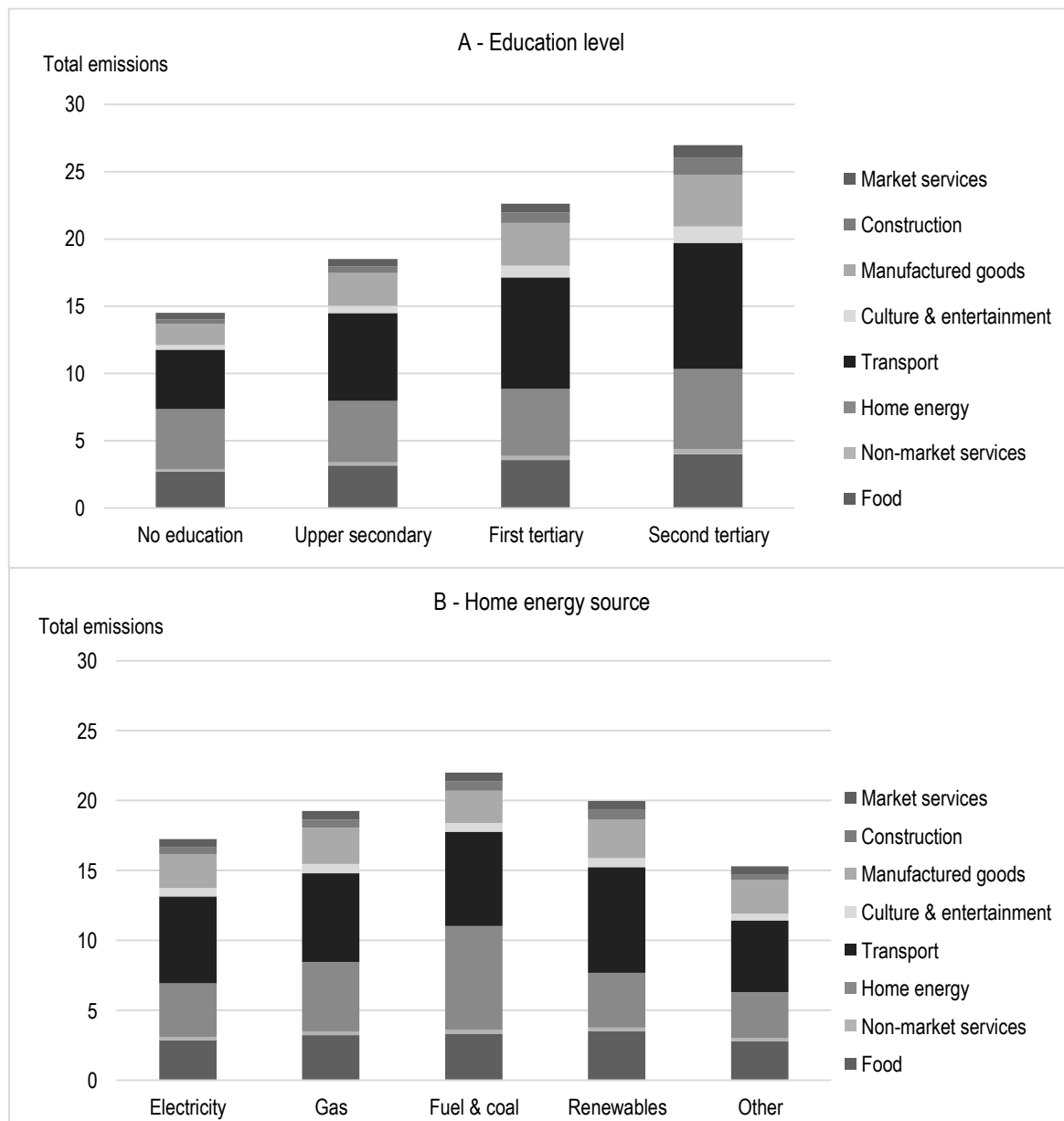
Field: 12,081 Metropolitan households in 2017.

Source: INSEE, *Enquête Budget de Famille* 2017

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Figure S1-I – Average carbon footprint (in t of CO₂e) by socioeconomic characteristics



Lecture: On average, households without diplomas emit less than 15 tons of CO₂e.

Field: 12,081 Metropolitan France, 2017.

Source : INSEE, *Enquête Budget de Famille* 2017, SDES, *Enquête Mobilité des Personnes* 2019, Exiobase 3.