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Can carbon labels shift consumers towards sustainable food? Evidence from Chinese consumers

Sustainable Futures

Provided in Cooperation with:

Leibniz Institute of Agricultural Development in Transition Economies (IAMO), Halle (Saale)

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1 Supplementary Material: Original Questionnaire in English 2 Section I: Awareness of Carbon Labels for Agricultural Products 3 1. Which processes in the production of agricultural products do you think generate carbon dioxide? 4 (Multiple choices allowed) 5 A. Sowing 6 B. Irrigation 7 C. Fertilization, Pesticide Use 8 D. Harvesting 9 E. Storage 10 F. Processing and Transportation 11 G. Other (please specify):

- 2. Are you aware of the specific meaning of the national "Dual Carbon" targets?
 - A. Yes

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- B. No-The "Dual Carbon Policy" refers to "Carbon Peaking" and "Carbon Neutrality". "Carbon peaking" means that our country has committed to reaching a peak in carbon dioxide emissions before 2030, after which they will gradually decrease; by 2060, all emitted carbon dioxide will be offset by measures such as afforestation and energy conservation, achieving "carbon neutrality."
- 19 3. Are you familiar with the relevant information about carbon labels?
 - A. Yes
 - B. No-A carbon label indicates the amount of greenhouse gas emissions produced during a product's production process, informing consumers of the product's carbon footprint and promoting low-carbon consumption. For example, in 2022, SATINE released China's first "carbon-neutral milk," which achieved "net-zero emissions" by offsetting the carbon emissions produced during the milk production process and the carbon emissions reduced by using clean energy in factories and recyclable packaging.

Section II: Opinions on Carbon-Labeled Agricultural Products

Statement	Item	Completely	Disagraa	Neutral	Agmoo	Completely
No.		Disagree	Disagree	Neutrai	Agree	Agree
1	I understand the concept of					
	carbon-labeled agricultural					
	products (such as "zero-carbon"					
	vegetables, carbon-neutral milk,					
	etc.).					
2	I understand the quality					
	characteristics of carbon-labeled					
	agricultural products (such as					
	"zero-carbon" vegetables, carbon-					
	neutral milk, etc.).					
3	I am familiar with the costs					
	associated with carbon-labeled					
	agricultural products (such as					
	"zero-carbon" vegetables, carbon-					

When shopping, I keep plastic shopping bags and reuse them. When printing, I actively use both sides of each sheet of paper. I often pay attention to articles or reports related to environmental issues. Purchasing high carbon dioxide emissions from agricultural products will cause serious pollution and environmental damage. Purchasing carbon-labeled agricultural products can reduce environmental pollution. Purchasing carbon-labeled agricultural products can ensure the quality and safety of agricultural products, which benefits us all. I believe that purchasing carbon-labeled agricultural products, which benefits of the environment. I believe purchasing carbon-labeled agricultural products is beneficial for the environment. I believe purchasing carbon-labeled agricultural products is a wise choice. Purchasing carbon-labeled agricultural products will make me feel physically and mentally pleasant. As a consumer, I should bear some responsibility for reducing carbon dioxide emissions. I feel responsible for environmental issues caused by not purchasing carbon-labeled agricultural products. I would feel guilty if I didn't buy agricultural items with carbon labels, contributing to increased carbon dioxide emissions.				<u> </u>	
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labels, contributing to increased carbon dioxide emissions.	15	I would feel guilty if I didn't buy			
carbon dioxide emissions.		agricultural items with carbon			
		labels, contributing to increased			
6 I believe that every consumer		carbon dioxide emissions.			
	16	I believe that every consumer			
bears some responsibility for the		bears some responsibility for the			

	environmental and social			
	problems caused by the			
	production and consumption of			
1.7	agricultural products.			
17	Please select " Disagree " for this			
	question.			
18	To safeguard the environment, I			
	should try to limit the number of			
	agricultural items I buy that			
	release a lot of carbon dioxide.			
19	I feel morally obligated to			
	contribute to reducing carbon			
	dioxide emissions by purchasing			
	carbon-labeled agricultural			
	products.			
20	I consider it a moral duty to			
	society to purchase carbon-			
	labeled agricultural products to			
	reduce carbon dioxide emissions.			
21	Everyone is responsible for			
	considering the environmental			
	impact when purchasing			
	agricultural products.			
22	The price of carbon-labeled			
	produce significantly influences			
	my decision to purchase it.			
23	I think that consumers find it			
	difficult to purchase items with a			
	carbon label because of the high			
	prices.			
24	I am willing to buy carbon-			
	labeled products when I have			
	confidence in their environmental			
	benefits.			
25	I am glad to purchase carbon-			
	labeled agricultural products.			
26	I am likely to purchase carbon-			
	labeled agricultural products in			
	the future.			
27	I plan to buy more carbon-labeled			
	agricultural products in the future.			
28	I would recommend carbon-			
20	labeled agricultural products to			
	my relatives and friends.			
	my relatives and menus.			<u> </u>

		I	1	I	1
29	I prefer carbon-labeled				
	agricultural products because my				
	friends and family approve				
	purchasing them.				
30	My friends and family are hoping				
	I will buy agricultural items with				
	a carbon label, so I would like to				
	do so.				
31	I prefer to buy carbon-labeled				
	agricultural products because the				
	government encourages me.				
32	I prefer to buy carbon-labeled				
	agricultural products because of				
	the environmentally friendly				
	examples.				
33	I worry that I might be wasting				
	money when buying carbon-				
	labeled agricultural products.				
34	I am concerned that carbon-				
	labeled agricultural products may				
	not provide the necessary				
	benefits.				
35	I worry that carbon-labeled				
	agricultural products may not				
	perform as well as advertised.				
36	Considering various factors, I				
	think there are risks associated				
	with purchasing carbon-labeled				
	agricultural products.				

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Section Ⅲ: Carbon Label Promotion

- 31 1. Have you purchased carbon-labeled agricultural products before?
- 32 A. Yes
- B. No. Please proceed to **Q3**.
- 2. How often have you chosen carbon-labeled agricultural products in the past year?
- 35 A. 0 times
- 36 B. 1-3 times
- 37 C. 4-6 times
- 38 D. 7-9 times
- 39 E. 10-12 times
- 40 F. 13-15 times
- G. More than 15 times
- 42 3. Would you pay more for products like "carbon-neutral" organic milk and "zero-carbon" organic
- 43 vegetables?

44 (1) Yes

- (2) No. Please briefly describe the reasons for refusing to pay more. (Multiple choices allowed; Please proceed to **Q9**)
- A. I contend that agricultural products do not influence the environment considerably from production to consumption.
- B. I cannot afford the expense due to financial constraints, but I would be willing to do so if my income increased.
- C. It is not cost-effective, and I don't think it is necessary to spend more money on it; I would prefer to buy cheaper agricultural products that are not carbon-labeled.
 - D. I do not believe that carbon-labeled products will help reduce carbon dioxide emissions.
- E. I believe the government should take more responsibility for reducing emissions than the consumers.
 - F. I do not want to try new products.
- G. Others
 - 4. After calculating the average price of common plain milk in supermarkets is RMB 3.75 per carton (250 ml), what is the maximum value (in RMB) you are willing to pay for each carton of carbon-labeled plain milk? (Please complete the checkboxes in the table)

3.75	3.94	4.13	4.31	4.50
4.69	4.88	5.06	5.25	5.44
5.63	5.81	6.00	6.19	6.38
6.56	6.75	6.94	7.13	7.31

5. Relevant data show that the latest average market price of corns in China is RMB 1.80 per catty (500g); what is the maximum value (in RMB) you are willing to pay for each catty of carbon-labeled corns? (Please complete the checkboxes in the table)

1.80	1.89	1.98	2.07	2.16
2.25	2.34	2.43	2.52	2.61
2.70	2.79	2.88	2.97	3.06
3.15	3.24	3.33	3.42	3.51

6. Relevant data show that the latest average market price of bananas in China is RMB 3.36 per catty (500g); what is the maximum value (in RMB) you are willing to pay for each catty of carbon-labeled bananas? (Please complete the checkboxes in the table)

3.36	3.53	3.70	3.86	4.03
4.20	4.37	4.54	4.70	4.87
5.04	5.21	5.38	5.54	5.71
5.88	6.05	6.22	6.38	6.55

7. Relevant data show that the latest average market price of tomatoes in China is RMB 2.90 per catty (500g); what is the maximum value (in RMB) you are willing to pay for each catty of carbon-labeled tomatoes? (Please complete the checkboxes in the table)

2.90	3.05	3.19	3.34	3.48
3.63	3.77	3.92	4.06	4.21
4.35	4.50	4.64	4.79	4.93
5.08	5.22	5.37	5.51	5.66

8. Relevant data show that the latest average market price of eggs in China is RMB 5.10 per catty

71 (500g); what is the maximum value (in RMB) you are willing to pay for each catty of carbon-labeled 72 eggs? (Please complete the checkboxes in the table)

5.10	5.36	5.61	5.87	6.12
6.38	6.63	6.89	7.14	7.40
7.65	7.91	8.16	8.42	8.67
8.93	9.18	9.44	9.69	9.95

9. Which of the following styles of carbon labels would attract your attention more? (Picture is an example)



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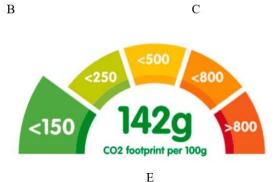
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D

- A. Carbon Neutral Label: Does not disclose explicit carbon emissions data and indicates that carbon neutrality has fully offset the product's carbon footprint.
- B. Carbon Footprint Label: Indicate the carbon emissions over the entire product's life cycle or at each stage of the product's life cycle.
- C. Carbon Rating Label: the total value of carbon dioxide emissions generated throughout the product's life cycle and the level of carbon reduction.
- D. Carbon Reduction Label (which simply indicates that the product's whole-life carbon dioxide emissions are below a set standard).
- E. Carbon labels with additional elements (such as the traffic light elements and carbon emission data above combined for product comparison).
- 10. Please provide your comments or suggestions regarding implementing carbon labeling of agricultural products in China. (For your convenience, you may select more than one option.)
 - A. Enhance the authenticity and reliability of carbon label certification information.
 - B. Lower the price so that it does not differ too much from the price of ordinary products.
 - C. Improve the quality of carbon-labeled agricultural products.
- D. Strengthen the publicity of environmental protection and carbon reduction policies to raise awareness of low-carbon and environmental protection.

93	E. Combine online forms to facilitate the promotion of carbon-labeled agricultural products
94	through e-commerce and other initiatives.
95	F. Others
96	11 0 4.10 13
97	Section IV: Basic Information Collection
98	1. Gender: Male / Female
99	2. Age: years old
100	3. Current residence: province city
101	4. Highest level of education:
102	A. Primary school
103	B. Junior high school
104	C. High school
105	D. Undergraduate
106	E. Postgraduate
107	5. Occupation: (Please choose the one that best describes your current occupation)
108	A. School student
109	B. Corporate or company employee
110	C. Government staff/Lawyer
111	D. Private business owner/Businessman
112	E. Service industry staff
113	F. Worker or farmer
114	G. Freelancer
115	H. Unemployed
116	I. Retired
117	J. Other
118	6. Your approximate monthly income last month: RMB
119	A. Under 3000
120	B. 3000-5000
121	C. 5001-10000
122	D. 10001-20000
123	E. 20001-30000
124	G. 30001-40000
125	Н. 40001-50000
126	I. More than 50000
127	7. Number of people in your household:
128	A. Two or fewer persons
129	B. 3-4 persons
130	C. 5-6 persons
131	D. 7 and more