

Integrated Human Practices

QUESTIONNAIRE

SLIM NAU -China 2020

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First of all, we have obtained consent to data collection. Almost every consumer from all ages could fill out the survey.

As we said, the survey on consumers is a part of “For Health, For Earning”. If consumers are concerned about what they eat is contaminated by heavy metals, there will be a greater demand in green heavy-metal-free vegetables than common vegetables. What we wanted to know is **the consumers’ opinions on vegetables contaminated by heavy metals**.

Below you will read how/why the questions are made:

Notes:

"Green heavy-metal-free vegetables" in this questionnaire refers to vegetables that are not polluted by heavy metals under the strict production control; "common vegetables" means vegetables that may have been polluted by heavy metals

☐ means you can choose one only; ☐ means you can choose more than one.

1. Gender

☐ Male

☐ Female

2. Age

☐ Under 18

☐ 19-40

☐ 41-60

☐ Over 60

3. Your area

☐ North China (Beijing, Tianjin, Hebei, Shanxi, Inner Mongolia)

☐ Northeast China (Liaoning, Jilin, Heilongjiang)

☐ East China (Shanghai, Jiangsu, Zhejiang, Jiangxi, Anhui, Fujian, Shandong)

☐ South-central China (Henan, Hubei, Hunan, Guangdong, Guangxi, Hainan)

☐ Southwest China (Chongqing, Sichuan, Guizhou, Yunnan, Xizang)

☐ Northwest China (Shaanxi, Gansu, Qinghai, Ningxia, Xinjiang)

☐ Hongkong, Macao, Taiwan

☐ Overseas

4. Have you ever been concerned about the local soil heavy metal pollution?

☐ Yes

☐ No

5. Do you know any way that may cause heavy metal pollution?

- ☐ Mining development
- ☐ Automobile exhaust
- ☐ Pesticide and chemical fertilizer residues
- ☐ Unreasonable emissions from factories
- ☐ Chemical waste
- ☐ Livestock and poultry dung
- ☐ Others_____

6. Have you heard about the following effects on human health that heavy metals may bring about?

- ☐ High blood lead will seriously affect the growth and intellectual development of children.
- ☐ Cadmium will lead to high blood pressure, causing cardiovascular and cerebrovascular diseases, destroy bone calcium and cause renal dysfunction.
- ☐ Chromium will cause limb numbness, abnormal mental.
- ☐ The brain visual nerve damage is great due to mercury ingested directly into the liver.
- ☐ 60% cancers are related to heavy metals and corresponding toxins.
- ☐ I've never heard of any of the above.

7. Do you know that heavy metals can be gathered in human bodies from soil to table and are difficult to be removed?

- ☐ Yes
- ☐ No

8. What do you know about the following heavy metal contaminated vegetables?

- ☐ Rice contaminated with cadmium.
- ☐ Eggplant contaminated with lead.
- ☐ Spinach contaminated with lead.
- ☐ Leaves contaminated with cadmium.
- ☐ Without any knowledge.

9. Do you think it's easy to eliminate heavy metals gathered in vegetables by washing and cooking?

- ☐ Yes
- ☐ No

10. How often do you buy vegetables and grain?

- ☐ Almost every day
- ☐ Occasionally
- ☐ Never Bought (please skip to question 13)

11. Which one will you choose, green pollution-free vegetables (the price is higher than common vegetables) or common vegetables?

- ☐ Green heavy-metal-free vegetables. (please skip to Question 13)
- ☐ Common vegetables.

12. What are the possible reasons that affect your purchase of green pollution-free vegetables?

- ☐ The price is high.
- ☐ I don't know which brand is safe, and I am afraid to buy unqualified vegetables.
- ☐ I don't care about the difference between them.
- ☐ Other reasons_____

13. What is your attitude towards heavy metal pollution in vegetables?

- ☐ Very worried, and afraid of threatening health and safety.
- ☐ A little worried, but not too concerned.
- ☐ I don't care about it.

14. What do you think of using synthetic biology technology to solve the problem of heavy metals in soil?

- ☐ Very innovative, and it should be greatly developed in the future.
- ☐ A little worried, because there are a lot of uncertainties.
- ☐ Don't agree, and be worried about its biological pollution.

15. In the future, would you like to choose green heavy-metal-free vegetables that meet a criterion but at a higher price?

- ☐ Yes
- ☐ No

16. (Optional) If you would not like to choose green heavy-metal-free vegetables, could you explain any other concerns besides the price?