

International Survey on Consumer Perceptions to the Reuse of Wastewater in Agriculture

*Required

Purpose of the Study:

The purpose of this survey is to record consumer attitudes and perceptions to wastewater reuse in agriculture. The survey was created by researchers at the Swedish University of Agricultural Sciences and is being distributed to university students and staff at 15 international universities.

How to complete the survey?:

This is an online survey. You will be asked to answer approximately 20 multiple choice questions and the survey should take ~10-15 minutes.

Confidentiality and Participant Rights:

All information collected through this survey shall be kept confidential to the extent mandated by Law. All responses will be collected anonymously. Participation is completely voluntary and you may withdraw from the survey at any point. Results from this survey may be published and/or shared with interested parties such as other research organisations, but you will not be personally identified. There are no health risks or discomfort associated with participating in this survey. There will be no compensation and/or direct benefits by participating in this study, however, your time and opinions are highly appreciated and will provide valuable insights for research.

Contact Information:

For questions or concerns about this study, you may email Prithvi Simha at Prithvi.Simha@slu.se

Participant Consent

By clicking the "I consent to participate in this survey" button below you acknowledge that you have read all the information provided above, that you are informed about the purpose of this study and that you agree to participate in this survey. While no personal details/identity shall be divulged you agree that your anonymous responses can be used for academic research and may be published. If you do not wish to participate please close your browser to exit the survey at this time.

1. Do you want to participate in this survey? *

Mark only one oval.

☐

Yes - I want to participate in the survey

Skip to question 2.

☐

No - Exit survey

Stop filling out this form.

2. What is your role in the university? *

Mark only one oval.

- ☐ Student – Bachelors Degree
- ☐ Student – Masters Degree
- ☐ Student – Doctoral Degree
- ☐ Post-Doctoral Researcher
- ☐ Faculty (Lecturers, Professors of various ranks)
- ☐ Administration / Staff

3. From the following list of major academic disciplines, which would you say that your education/research/work relates most closely to? *

Mark only one oval.

- ☐ Arts (Music, Dance, Theatre, Fine Arts, Architecture, Design)
- ☐ Humanities (History, Geography, Language, Literature, Philosophy, Theology)
- ☐ Social Sciences (Economics, Law, Political Sciences, Psychology, Sociology)
- ☐ Natural Sciences (Biology, Chemistry, Earth Sciences, Space Sciences, Mathematics, Physics)
- ☐ Applied Sciences (Agricultural Sciences, Engineering & Technology, Computer Sciences, Medical & Health Sciences)

4. From the following types of settlements, choose the one in which you have lived most years of your life: *

Mark only one oval.

- ☐ Urban
- ☐ Rural
- ☐ Peri-Urban (Urban-Rural Transition Area)

5. Do you think cow urine/cow manure can act as a fertiliser for crops? *

Mark only one oval.

- ☐ Yes
- ☐ No

6. Would you eat food that was grown using cow urine/cow manure as a fertiliser? *

Mark only one oval.

- ☐ Yes
- ☐ No

7. Do you think human urine can act as a fertiliser for crops? *

Mark only one oval.

- ☐ Yes
- ☐ No

8. Comment:

9. Would you eat food that was grown using human urine as a fertiliser? *

Mark only one oval.

- ☐ Yes *After the last question in this section, skip to question 11.*
- ☐ No *After the last question in this section, skip to question 12.*

10. Comment:

11. Complete the sentence as you see most appropriate: "I would eat food that was grown using human urine as a fertiliser," *

Mark only one oval.

- ☐ even if it costs more than what I usually pay
- ☐ only if it costs similar to what I usually pay
- ☐ only if it costs less than what I usually pay

12. If you were to guess, do you think your friends/colleagues in the university would eat food that was grown using human urine as a fertiliser? *

Mark only one oval.

- ☐ Yes
- ☐ No

13. Comment:

14. When fresh, untreated human urine is used to grow crops, do you think it poses a health risk to you as a consumer of food? *

Mark only one oval.

- ☐ Yes *After the last question in this section, skip to question 16.*
- ☐ No *After the last question in this section, skip to question 17.*

15. Comment:

16. Do you think human urine can be treated so as to not pose a health risk? *

Mark only one oval.

- ☐ Yes
- ☐ No

17. Do you think human urine normally contains any of the following substances? (mark all that apply) *

Tick all that apply.

- ☐ Vitamins
- ☐ Salts
- ☐ Radioactive substances
- ☐ Pharmaceutical residues / Medicines
- ☐ Hormones
- ☐ Heavy metals
- ☐ Pathogens (Disease-causing microorganisms)

18. Comment:

19. Which among the following do you think are appropriate ways to deal with human urine? (mark all that apply) *

Tick all that apply.

- ☐ Use it as a crop fertiliser
- ☐ Use it for watering lawn / gardens
- ☐ Use it for generating electricity
- ☐ Send it to a wastewater treatment plant
- ☐ Dilute and dispose it in surface water (river, ocean)
- ☐ Dump it at a landfill
- ☐ Incinerate it / burn it

20. Please indicate how strongly you agree or disagree with the following statements: *

Mark only one oval per row.

	Strongly Disagree	Disagree	Neither Disagree Nor Agree	Agree	Strongly Agree
Human intelligence will ensure that we do not make the Earth un-liveable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
We are approaching the limit of the number of people the Earth can support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When humans interfere with nature it often produces disastrous consequences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Humans are seriously abusing the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Humans have the right to modify the natural environment to suit their needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

21. What is your age? *

Mark only one oval.

- ☐ < 20
- ☐ 21-24
- ☐ 25-30
- ☐ 31-40
- ☐ 41-50
- ☐ 51-60
- ☐ 61-70
- ☐ >70

22. Please indicate how strongly you agree or disagree with the following statements: *

Mark only one oval per row.

	Strongly Disagree	Disagree	Neither Disagree Nor Agree	Agree	Strongly Agree
The so-called "ecological crisis" facing humankind has been greatly exaggerated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The balance of nature is strong enough to cope with the impacts of modern industrial nations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Despite our special abilities, humans are still subject to the laws of nature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The Earth has plenty of natural resources if we just learn how to develop them	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plants and animals have as much right as humans to exist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

23. What is your gender? *

Mark only one oval.

- ☐ Female
- ☐ Male

24. Please indicate how strongly you agree or disagree with the following statements: *

Mark only one oval per row.

	Strongly Disagree	Disagree	Neither Disagree Nor Agree	Agree	Strongly Agree
If things continue on their present course, we will soon experience a major ecological catastrophe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Humans will eventually learn enough about how nature works to be able to control it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The Earth is like a spaceship with very limited room and resources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Humans were meant to rule over the rest of nature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The balance of nature is very delicate and easily upset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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