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## **PESTICIDE INFORMATION SOURCES AND WASTE MANAGEMENT – SURVEY RESULTS FROM AZERBAIJAN COMPARED TO GEORGIA**

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Survey results from Azerbaijan compared to Georgia reflect developments in waste management regulations

## Contents

- Results of two surveys (Az & Ge)
- Situation waste management regulations
- Conclusions



## Methods

- Paper-based survey of regional knowledge and pesticide waste management:
  - Tamarisi, Marneuli region, Georgia, near former pesticide store, 100 participants
  - Ganja, Azerbaijan, former distribution center, NGO, 30 participants
- Survey topics
  - Knowledge about pesticides used
  - Waste management practices



Публичное  
исследование о  
пестицидах и  
восстановлении  
почв

Исследование Тбилисского государственного университета им. Ивана Джавахишвили и университетов-партнеров в Германии



# Pesticide Information Sources and Waste Management – Results of the surveys

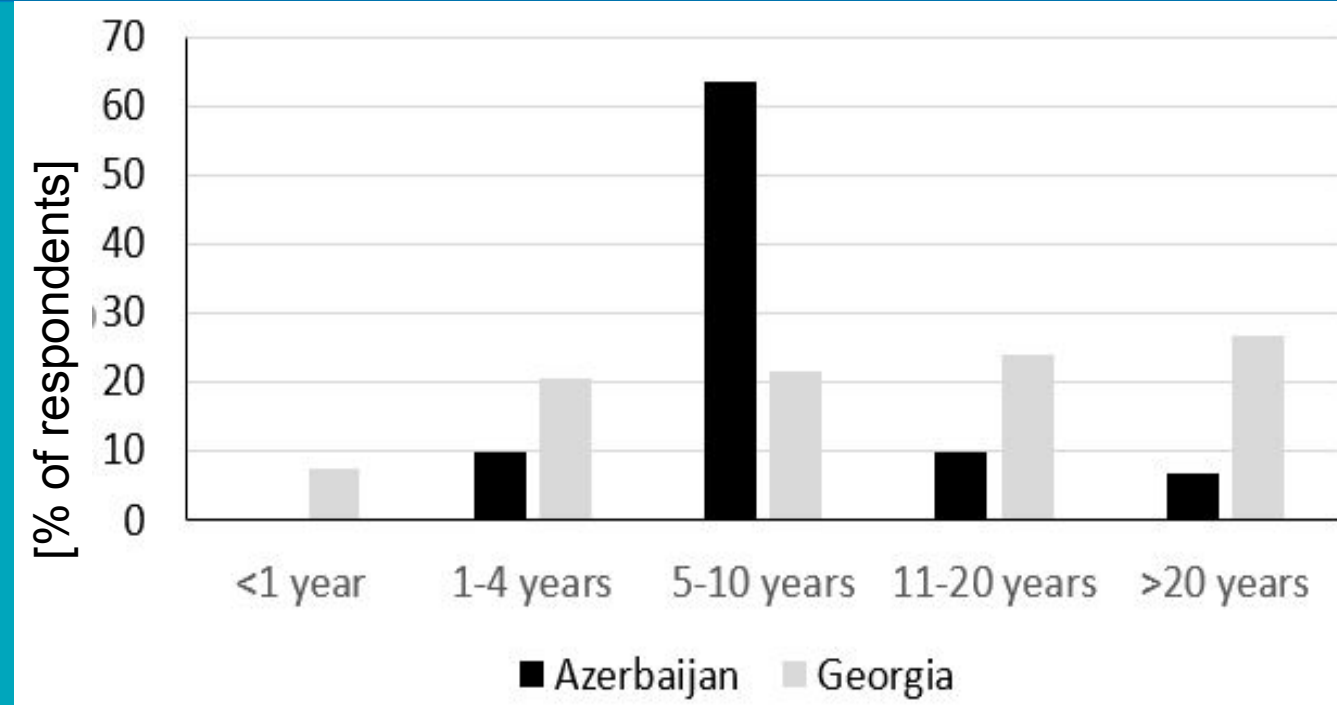
Which pesticides do people use?

- Pesticides reported do not include Stockholm-Convention POPs
- Cu-containing pesticides (e.g. „Bordo“) & sulfonyleurea-pesticide most frequent in Azerbaijan
- Cu-containing (e.g. „Bordo“) & pyrethroid pesticides most frequent in Georgia
- Participants mention very few correct matches of active ingredient & product name

# Pesticide Information Sources and Waste Management – Results of the surveys

How old are the pesticides used?

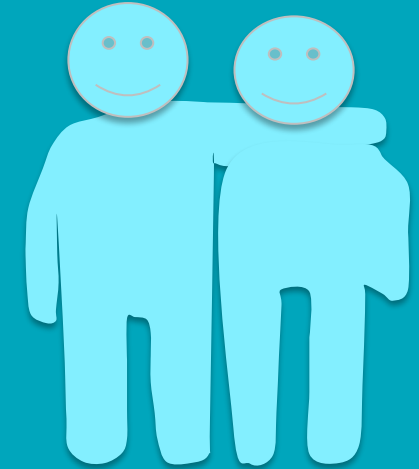
- Pesticides are used for a long time
- Reports from Azerbaijan:  
pesticides are kept until used up
- In Georgia: more than 25 % owned for  
more than 25 years (Lud et al. 2022)



Values for Georgia taken from Lud et al. 2022 SN Applied Sciences  
4:112

# Pesticide Information Sources and Waste Management – Results of the surveys

## Sources of Information

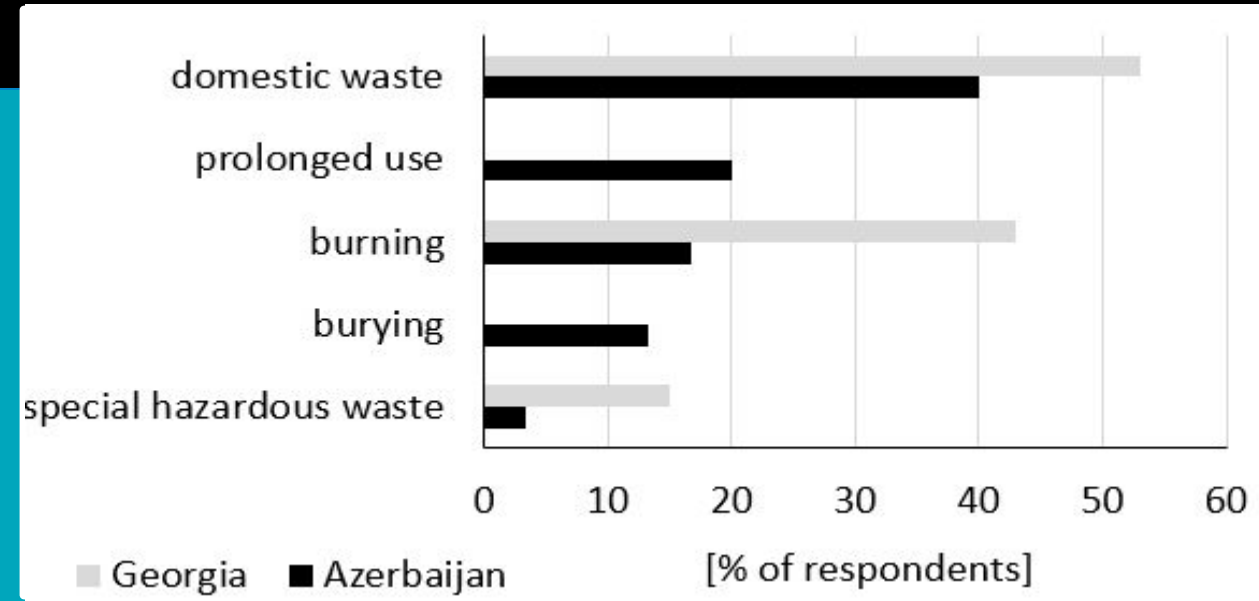


- Most frequently mentioned sources of information based on direct contact to people.  
Label less important as source of information
- Azerbaijan: friends & family most important, then retailer & extension services
- Georgia: retailer most important (Lud et al. 2022)

# Pesticide Information Sources and Waste Management –

## Results of the surveys

### Reported disposal options



- Reported disposal options reflect current waste regulation situation in both countries
- In both countries disposal via domestic waste most frequently reported option
- Azerbaijan: prolonged use, keeping remains for the next season 2nd most important
- Georgia: burning or hazardous waste disposal other reported options (Lud et al. 2022)



# Pesticide Information Sources and Waste Management – Waste regulation

## Current waste regulation situation:

Some legislative progress in both countries.

Chachkiani et al. 2022: domestic waste stream is not separated in Georgia, reported share of hazardous waste is low, but might be underestimated as hazardous waste in repacked containers difficult to identify

Kaza et al. 2021: waste collection rates rural Georgia 64 % (25-95 %)



## Conclusions

Further efforts are needed in waste management, awareness and implementation (Fehr et al. 2022).

Separation and waste collection rate need to be improved in both countries

Positive influence of education on safe handling and disposal shows importance of further efforts for better education (vocational, academic & informal training)

# THANK YOU FOR YOUR ATTENTION

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