



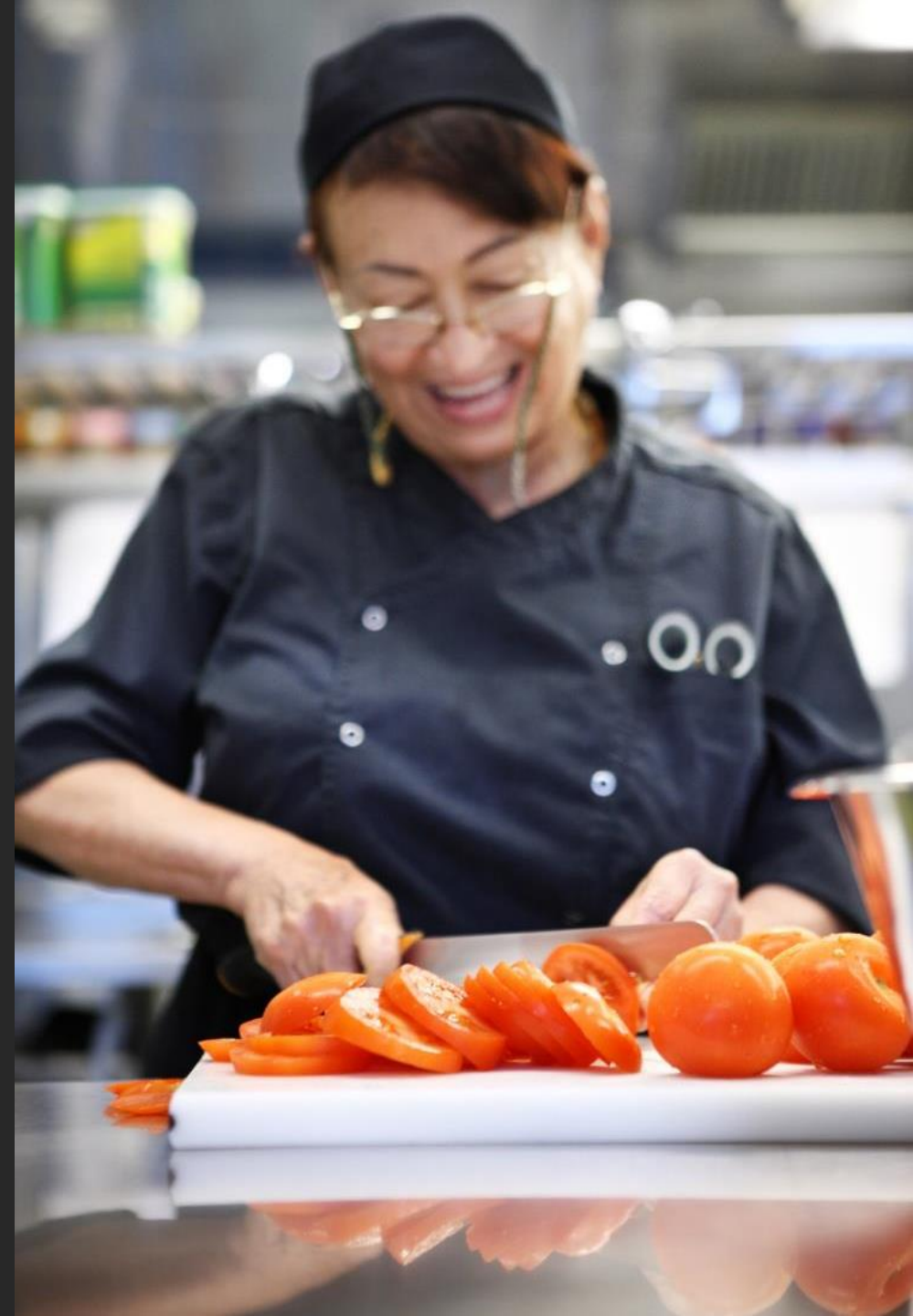
Mapping (edable) food waste from lunches in public meals in Sweden 2022

Karin Fritz, Swedish Food Agency

Public meals in Sweden – background

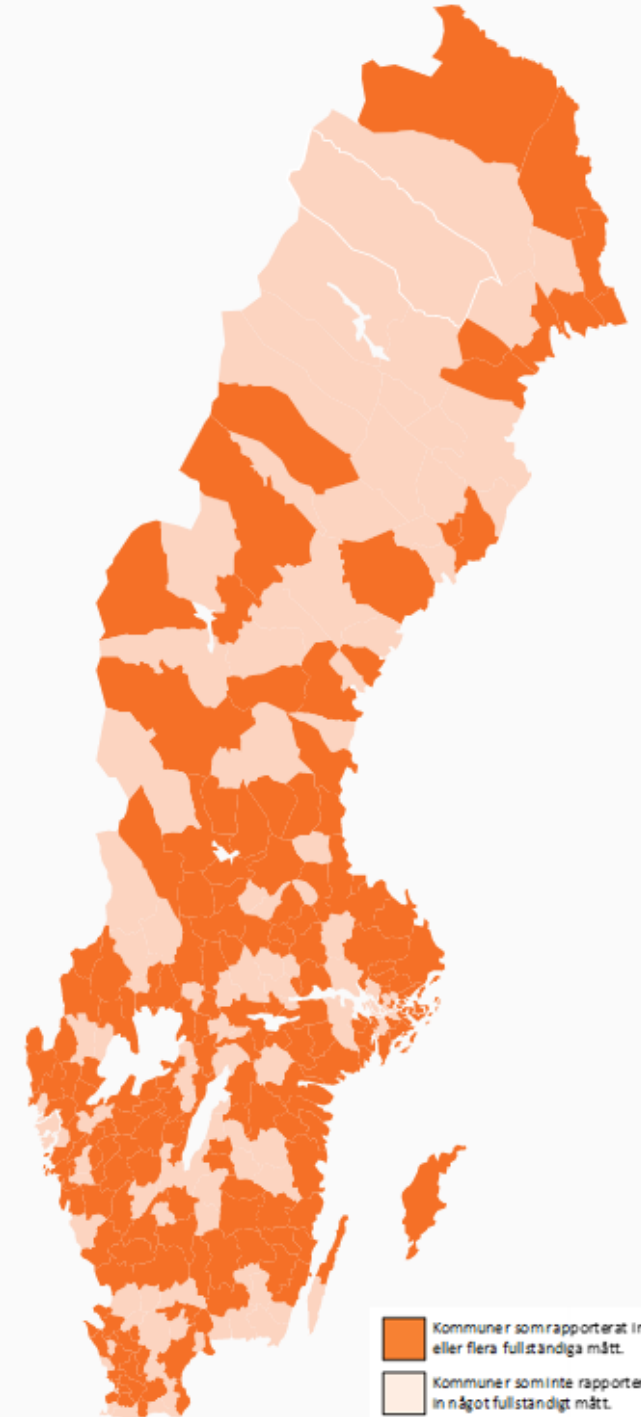
3 million free meals per day

- 1,2 million lunches in **schools**
- 500 000 lunches in **pre-schools**
- 100 000 lunches in **elderly care**
- 70 000 lunches in **hospitals**



Mapping of food waste – third time

- Three times: 2019, 2020 and 2022
- Voluntary
- Asking for:
 - Kitchen waste
 - Serving waste
 - Plate waste (scrape)
- 185 municipalities answered (159 in 2020)
- National measuring method for public meals



How different sectors contribute with data

- Schools reported most data
- Elderly care most seldom
- Plate waste (scrape) is most common to report



Food waste in schools from lunches

- 56 gram per pupil (excluding drinks)
- 1 out of 6 portions
- 11 700 tons of edible food per year
- **35 million lunches**
- To the cost of around 30 000 Euro



Food waste in preschools from lunches

- 71 gram per child (excluding drinks)
- **More than 1 out of 6 portions**
- 4 000 tons of edible food per year



Conclusions

- More municipalities are reporting = good
- **Type of kitchen** seems to affect the food waste
 - Higher food waste in receiveing kitchens
 - Lower food waste in producing kitchens
- **Size** of municipality matters
 - Higher food waste in smaller municipalities

AND ONE MORE VERY IMPORTANT CONCLUSION NEXT!



**Too little food is
eaten**

Too little food is eaten



Hungry pupils

Too little food is eaten



Hungry pupils



Tired pupils
Mess in the classroom
Difficult to learn

Too little food is eaten



Hungry pupils



Tired pupils
Mess in the classroom
Difficult to learn



Poorer school performance

Tackling food waste from public meals is about to find measures so that the guests instead eat the food. It is not about to produce less food!

Thank you and over to the next topic!

Waste composition analysis – edible food waste in Swedish households

What kind of food do Swedish household waste?

I don't waste food, someone else does!



Food waste in households

- 15 kilo in the bin (2021)
- 18 kilo down the drain (2021)
- = 33 kilo: edible food waste
- **28 % of food waste is edible in households**

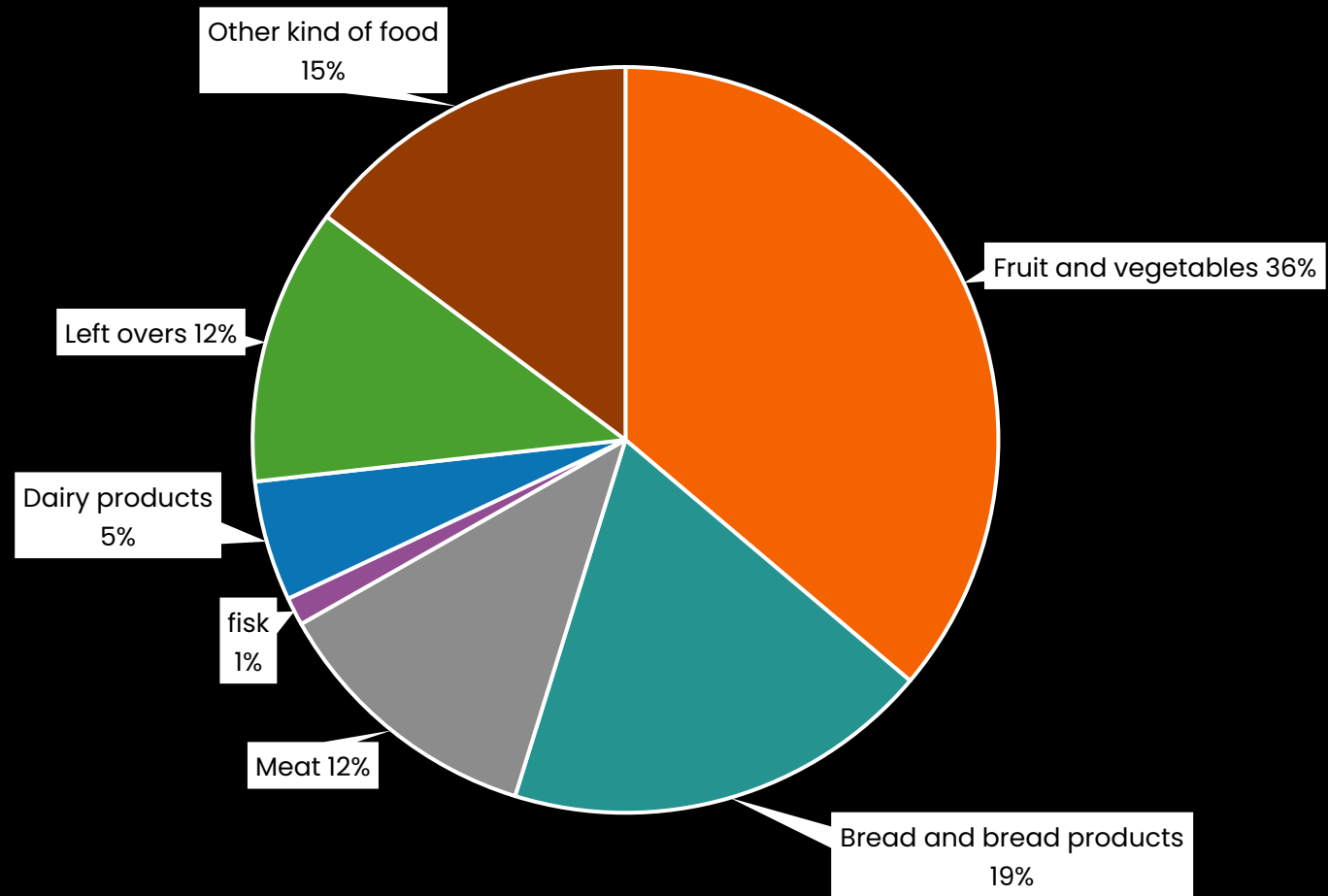


Waste composition analysis – edible food waste

- 15 municipalities
- Both houses and apartments
- Source separated biowaste
- Residual waste

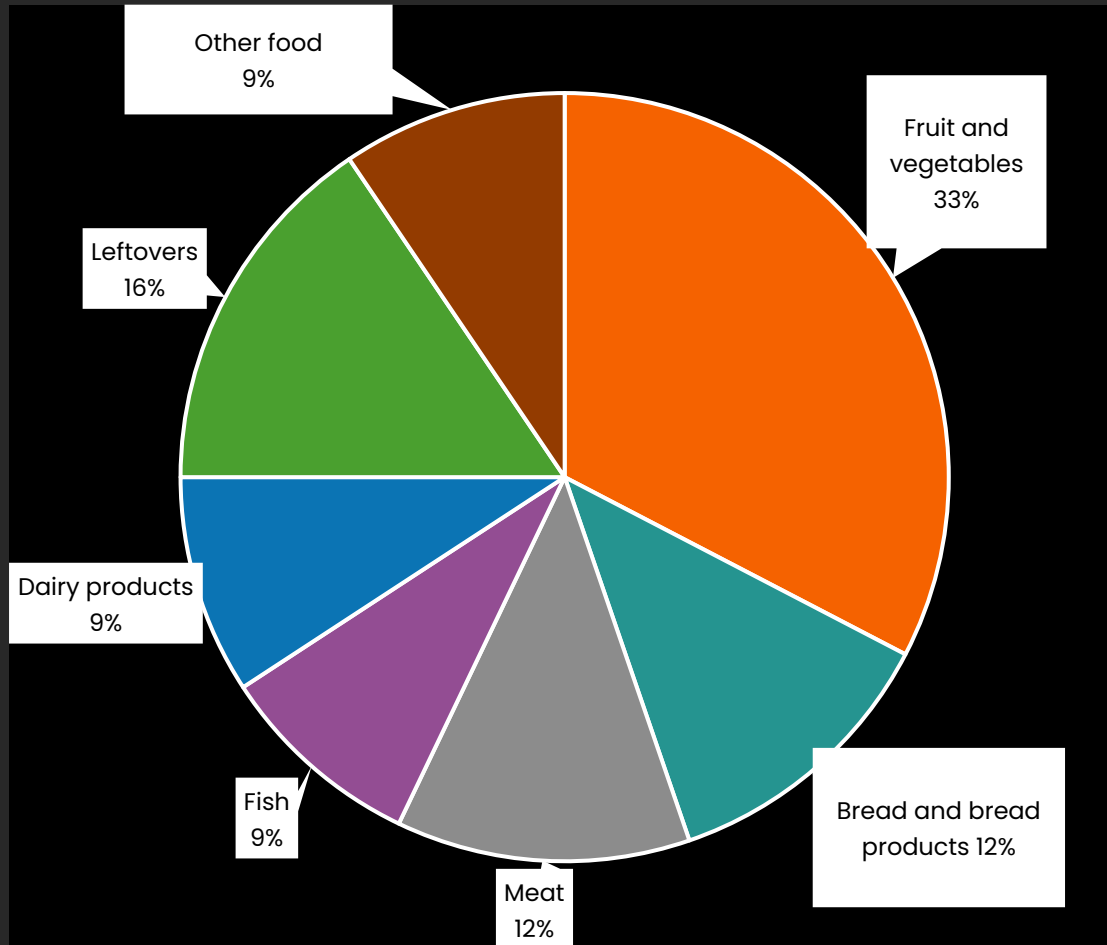


Fruit and vegetables at the top!

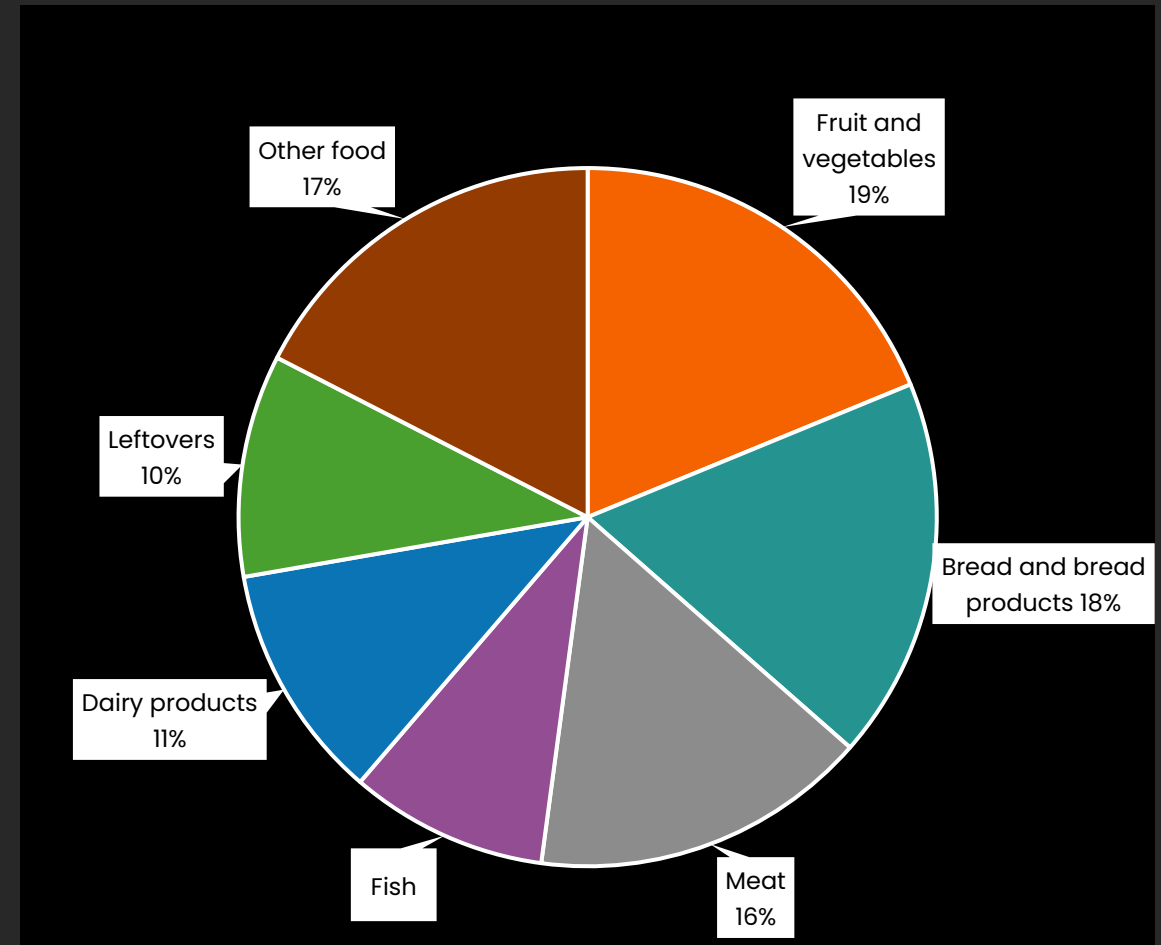


Differences between: source separated biowaste and residual waste

Source separated biowaste



Residual waste



Conclusions

- Partly confirms what we already know
- In depth knowledge of which foods are wasted within the categories
- In the residual waste a large part of the food is wasted in its packaging and even in unopened packaging
- Important knowledge for us to further work to reduce food waste in households



Thank you!





Livsmedelsverket
Swedish Food Agency

Extra information

Operation	Kitchen waste, median (the same for all)	Kitchen waste weighted average* (the same for all)	Serving waste, median	Serving waste, weighted average*	Plate waste, median	Plate waste, weighted average
Preschool	9 gram/portion	11 gram/portion	32 gram/ätande	33 gram/ätande	23 gram/ätande	26 gram/ätande
Elementary school	9 gram/portion	11 gram/portion	20 gram/ätande	20 gram/ätande	20 gram/ätande	22 gram/ätande
Gymnasium	9 gram/portion	11 gram/portion	19 gram/ätande	22 gram/ätande	30 gram/ätande	34 gram/ätande