

Setting up a national metric for food waste data in foodservice

Lessons learnt from the case of the Danish organic foodservice monitoring

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Big Foodservice Big Foodwaste Time to Rethink

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The survey on foodservice

- Annual survey on "organic foodservice"
- Data collection by Statistics Denmark
- Funded by the Ministry of Environment and Food
- Five years finalized: 2013-2017, 2018 on its way
- Used for the follow-up of goals for organic foodservice
- Mandatory, *official statistics*

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Background

- Policy need of promoting organic production and consume
 - the survey is part of the policy benchmarking, e.g. in
 - 'Organic Action plan 2020': transformation of public sector kitchens to organic food production
 - 'Growth plan for Danish ecology': market with potential of growth
- Provision of a more complete picture of Danes' consumption of organic foods by supplementing existing statistics

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A more complete picture

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What makes official Statistics?

- Follows European Statistics Code of Practice
 - Professional independence
 - Impartiality and objectivity
 - Commitment to quality
 - Accessibility and clarity
- Statistics Denmark
 - Dissemination in standard programme
 - Mandatory participation
 - Consideration of burden
 - Broad relevance

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Preparations for the food survey statistics

- Predeseeding a survey made by the organic industry
- Questionnaire and methodology developed in cooperation with a reference group
 - Ministry of Environment and Food, Agriculture & Food association, Organic Denmark and others
- Pilotsurvey 2012 among food wholesalers
- Consultation with the industry
 - message received:
 - "no common classification of commodities or customers"
 - "consider response burden "

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Scope: What is foodservice?

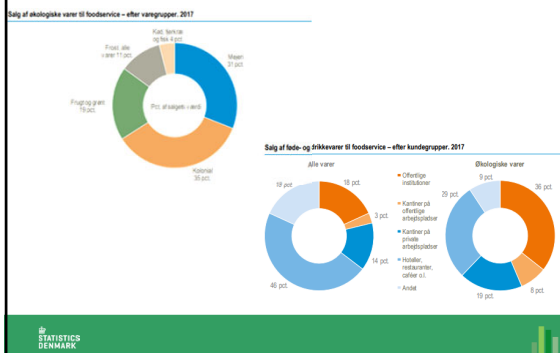


- Foodservice concerns professional kitchens in institutions, restaurants, cafés, etc.
 - on other words: where meals are prepared and served
- Food wholesalers' sales of food and beverages to these kitchens (value, volume)
- Excluding
 - sales to other wholesalers or abroad
 - sales to retail stores
- Organic = certified food (national eco brand)

Indicators

- Sales for foodservice? Yes ↓ No →
 - Total foodservice turnover (DKK)
 - Breakdown by 6 customer groups (est., %)
- Sales of organic foods for foodservice? Yes ↓ No →
 - Distribution of organic sales into 35 product groups (DKK)
 - Distribution of organic sales by 35 product groups (kg)
 - Breakdown by 6 customer groups (est., %)
- Customer groups
 - Cariteens government jobs, cariteens private workplaces, hotels/restaurants/cafes, institutions, other
 - Decided by where the food is served
- Main product categories
 - Grocery, dairy, fruits/vegetables, meat/poultry/fish and frost

Example of results



Population: Who do we ask ?



- Register population of food wholesalers is merged with authorities' register of organic food establishments
- Total count with threshold: at least 30 million DKK in turnover
- Food Wholesalers in all: Ca. 700 companies (asked each 5th year).
 - Approximately half of these have sales to food service.
- Of these with organic foodservice: Approximately 125 (asked every year).
 - Assumed to cover at least 90 per cent of foodservice sales.

Data and reliability

- Almost total count
 - => little statistical uncertainty
- Respondent's burden kept down
 - no. of questions, no. of respondents
- ... But still difficult questions
 - => Uncertainty on answers
 - Lack of central registration of eco-turnover
 - Another breakdown of food categories than the survey
 - Doubt about food service (grey areas, lack of registration)
 - Hard to know the user groups
 - => Total organic revenue more certain than breakdown by product and customer groups

Dissemination

- Statistics Denmark's Newsletter
- www.statbank.dk
- Thematic website dst.dk/oekologi



How to set up new statistics

- User needs
 - e.g. national policy => need for national data
- The right tool
 - Survey, registers etc. (alternatives or supplements)
- What survey population?
 - who should be asked?
 - source of population, primary or secondary
 - selection of sample
- Contents
 - Scope + concepts => list of indicators, explanations
 - Operationalisation (understandability, feasibility, data accessibility)
- Raising results to national level
 - Representativity: coverage of population, weighting survey results
- Ad hoc survey or official statistics?
 - regularity, duration, relevance

Dimensions in food waste

- Where in the food chain?
 - professional kitchens
- How much?
- Categories of food waste
 - food category, process (storage, cooking, meal)
- Profile/background information on kitchens etc.
 - (subsector/customers, size, organic etc.)
- Soft indicators
 - measures/readiness/policy, obstacles, effect, reason for waste
- Remember response burden and answer fatigue...

