

| Product leaving primary production (CPA 2.2) | Product entering supply chain stage (CPA 2) | Product leaving supply chain stage (CPA 2) | Product specification based on study | Geographical scope | Temporal scope             |                            | Location of food waste within the supply chain |                               |                               | Food waste and side stream quantity |              |                 |                 |                |        |
|----------------------------------------------|---------------------------------------------|--------------------------------------------|--------------------------------------|--------------------|----------------------------|----------------------------|------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------|-----------------|-----------------|----------------|--------|
|                                              |                                             |                                            |                                      |                    | Year(s) of data collection | Year of publication        | Supply chain stage (broad)                     | Supply chain stage (specific) | NACE code                     | FLW Quantity                        | Unit 1       | Edible/Inedible | FLW Quantity    | Unit 2         |        |
|                                              |                                             |                                            |                                      |                    | Country of data collection | Year(s) of data collection | Year of publication                            | Supply chain stage (broad)    | Supply chain stage (specific) | NACE code                           | FLW Quantity | Unit 1          | Edible/Inedible | FLW Quantity   | Unit 2 |
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|                                              |                                             |                                            |                                      |                    | Country of data collection | Year(s) of data collection | Year of publication                            | Supply chain stage (broad)    | Supply chain stage (specific) | NACE code                           | FLW Quantity | Unit 1          | Edible/Inedible | FLW Quantity   | Unit 2 |
|                                              |                                             |                                            |                                      |                    | Country of data collection | Year(s) of data collection | Year of publication                            | Supply chain stage (broad)    | Supply chain stage (specific) | NACE code                           | FLW Quantity | Unit 1          | Edible/Inedible | FLW Quantity   | Unit 2 |
|                                              |                                             |                                            |                                      |                    | Country of data collection | Year(s) of data collection | Year of publication                            | Supply chain stage (broad)    | Supply chain stage (specific) | NACE code                           | FLW Quantity | Unit 1          | Edible/Inedible | FLW Quantity   | Unit 2 |
|                                              |                                             |                                            |                                      |                    | Country of data collection | Year(s) of data collection | Year of publication                            | Supply chain stage (broad)    | Supply chain stage (specific) | NACE code                           | FLW Quantity | Unit 1          | Edible/Inedible | FLW Quantity</ |        |

## Practice Abstract #4:

### A detailed database on food waste quantities at product-level



**WASTEWISE**  
Waste Avoidance Strategies for  
Environmental Sustainability

The reduction of food waste has high potential for decreasing greenhouse gas emissions and improving the efficiency of resource use. However, when it comes to reducing food waste, there is no formula that works equally well for all products. This is because different products undergo very different processes, resulting in differences in terms of where food waste occurs in the supply chain and how much is generated. To facilitate product-based investigations and to help determine which products and which points in the supply chain should be targeted to achieve the most efficient reduction in food waste, researchers from the WASTEWISE project have set up a database.

The database includes food waste quantities from both published and unpublished studies from within and outside the project consortium. The structure of the database was designed to facilitate material flow analyses for products while also enabling users to assess the data quality.

***“for a robust knowledge base, it is necessary that studies reach a satisfying standard in data collection methods and reporting on methodological parameters”***

The freely available database can support future studies by providing a collection of food waste quantities for different products. Compiling the database showed that food loss and waste rates of different studies are not easily comparable. Differences through methodology might exceed national differences for the same product. This leads us to the insight that detailed knowledge on the processes for which food loss and waste was measured, is necessary to make loss rates from different studies more comparable. Furthermore, compiling the data sources showed that existing frameworks should be further developed and harmonized so that future studies have a solid common theoretical background. It also became evident that, for a robust knowledge base, it is necessary that a sufficient quality of the data collection method is ensured and that studies report on methodological parameters such as standard deviations, sampling methods and representativeness.

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