

The impact of food preservation on food waste

Wayne Martindale

University of Lincoln, UK

Abstract

The purpose of this paper is to demonstrate the relationship between food preservation and reducing consumer waste is of value in developing sustainable meal options. The research reports insights into Austrian marketplace for frozen and fresh foods that have been obtained from a consumer survey. The consumer survey methodologies indicate how preservation can change meal planning and lower food waste across frozen and fresh and ambient food purchases using freezing preservation methods. This research has enabled the identification of different food waste amounts for different food product categories. The data presented could be used to guide food product development so that less consumer waste is produced.

The research suggests a decision matrix approach can be used to can guide new product development and a model of this matrix is presented so that it may provide fit-for-purpose food preservation options for consumers.

This paper will continue to highlight the overlooked value of food preservation during processing and manufacturing of foods and their preparation in households. This study highlights the requirement for a greater understanding of the probability that specific foods will be wasted with respect to the frequency of purchase. The results show food waste can be reduced by six-fold when frozen foods are compared with fresh foods

Received: September 9, 2022; **Accepted:** September 16, 2022; **Published:** September 25, 2022

Biography

Wayne Martindale is a Project Director for the Food Insights and Sustainability Service at the National Centre for Food Manufacturing, University of Lincoln. He is CSIRO McMaster and OECD Fellow directing a diverse folio of consumer focused research in food and drink. Professor Walter Schiebel is a University Professor

of Agricultural Marketing and Nutritional Economics with extensive experience in International Academic and Consulting Projects in Western and Eastern Europe.