

THE TRAGEDY OF WASTE -HOW FOOD NOT EATEN IS HURTING OUR PLANET

ESTIMATED READ TIME: 10 MINUTES

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KEY TAKEAWAYS

Around 1/3 of all food produced globally is lost or wasted, while over 10% of the world's population goes hungry Reasons for waste include inefficient agricultural practices, market pressures and consumer dumping Food waste contributes to food insecurity, trillions of dollars in economic losses and global carbon emissions that rank third behind the carbon emissions output of the US and China With more than half of all waste happening at the retail and consumer levels, simple adjustments to purchasing and consumption practices can make a big difference

Note upon a time, uncooperative children at the dining table would be shamed into finishing their meals with a simple reprimand – clear your plate because there are children in the world who have nothing to eat. Underneath the irony of leveraging global hunger to encourage eating, these mealtime lectures taught us that it was unconscionable to throw food away when others were going hungry.

Somewhere along the way, due to a confluence of economic, technological and cultural factors, food waste stopped striking a moral nerve. Today, with hardly a regret, we discard half-eaten meals from restaurants, we dump perfectly safe foods that are just past their 'sell-by' dates, we leave produce to rot in our refrigerators (only to purchase the same neglected items again the next



week). This waste extends further up the value chain - around the world, millions of dollars' worth of food items are lost daily before they even make it to market. The reasons for this loss and waste are manifold, as are its impacts. Where the average person might have framed food waste as a moral issue in the past, it has today become a more complex problem, with economic, environmental and developmental implications that we cannot afford to ignore.

The United Nations Environmental Programme (UNEP) Food Waste Index Report 2021¹ lists Trinidad and Tobago as one of the most wasteful countries in Latin America and the Caribbean when it comes to food. UNEP estimates that Trinbagonian households dump a staggering 103,127 tonnes of food each year. Tackling food waste is therefore a pillar of the partnership that NGC forged with Nutrien in June 2022, which is aimed at boosting local food and nutrition security.

A CLOSER LOOK AT **THE PROBLEM**

Food waste refers broadly to food that is produced for human consumption but is not eaten. Depending on the stage at which food is removed from the value chain, it can be categorised as 'lost' or 'wasted'. UNEP explains the distinction as follows: **FOOD LOSS** refers to food that gets spilled, spoilt or otherwise lost, or incurs reduction of quality and value during its process in the food supply chain before it reaches its final product stage. Food loss typically takes place at production, post-harvest, processing, and distribution stages in the food supply chain. **FOOD WASTE** refers to food that completes the food supply chain up to a final product, of good quality and fit for consumption, but still doesn't get consumed because it is discarded, whether or not after it is left to spoil or expire. Food waste typically (but not exclusively) takes place at retail and consumption stages in the food supply chain.²

¹https://www.unep.org/resources/report/unep-food-waste-index-report-2021 ²https://www.unep.org/thinkeatsave/about/definition-food-loss-and-waste



³ https://www.unep.org/news-and-stories/story/how-feed-10-bil-

⁷ https://borgenproject.org/hunger-in-trinidad-and-tobago/#:-:text=Lystra%20Fletcher%2DPaul%20reported%20that,wasteful%20country%20in%20the%20region.
⁸ https://www.forbes.com/sites/daphneewingchow/2019/03/29/foodwaste/?sh=77a03f9072e6

⁹ Ibid

lion-people#:-:text=There%20is%20enough%20food%20for%20everyone.&text=Rather%2C%20it%20is%20a%20problem,is%20used%20for%20livestock%20grazing. ⁴ https://www.un.org/en/observances/end-food-waste-day

⁵ https://borgenproject.org/hunger-in-trinidad-and-tobago/#:-:text=Lystra%20Fletcher%2DPaul%20reported%20that,wasteful%20country%20in%20the%20region ⁶ https://www.forbes.com/sites/daphneewingchow/2019/03/29/foodwaste/?sh=77a03f9072e6



WHY ARE WE WASTING SO MUCH?

There are many reasons why so much edible food does not get consumed, and they vary from country to country.

Looking first at food loss, agricultural practices bear some of the blame. Inefficient mechanical harvesting can leave crops unpicked, or damage produce and make them unfit for sale. To protect against possible crop failure or losses, some farmers may plant more than they can sell, which leads to dumping if the anticipated production losses do not occur. During transportation, storage, processing and packaging, more food is lost due to improper handling and poorly regulated environments which accelerate spoilage.

Market pressures are another major contributing factor.

The 'paradox of plenty' in agriculture is that excess production fells prices. If market prices are lower than harvest and transportation costs, farmers often choose to leave crops in the field. Depressed demand prompts similar action. A poignant illustration - during the COVID-19 pandemic, US farmers dumped thousands of gallons of fresh milk, ploughed acres of ripe vegetables back into the soil and destroyed hundreds of thousands of unhatched eggs, due to the sharp decline in retail demand with the closure of food businesses.¹⁰ In some countries, the problem is exacerbated by state interventions - ill-conceived



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agricultural subsidies, for example, can encourage overproduction.

No matter the country, at the end of the value chain, consumers contribute to both food loss and waste.

Consumers' preference for unblemished produce leads producers to discard perfectly edible food crops on the basis of cosmetic imperfections. Then, of course, there is the waste that occurs when food is ultimately purchased. Whether raw or cooked, mountains of food are dumped into landfills because people purchased more than they could or wanted to consume. Excessive portion sizes, incentivised overeating through buffets and restaurant 'supersizing', poor understanding of 'sell-by' dates versus 'expiry' dates, and even the psychological devaluation of food that goes into the fridge (relative to 'fresh' food), all encourage consumer wastage.

THE **IMPACT** OF WASTE

This waste exacts a high cost. For most, the social impact comes first to mind. Despite Malthusian fears that the world will soon be unable to feed its growing population, entities such as UNEP insist that we are producing more than enough food to meet global demand.¹¹ The problem is distribution.

We are wasting more than a third of the food we produce, while over 10% of the world's population goes hungry.¹²

 $^{^{10}\,}https://www.nytimes.com/2020/04/11/business/coronavirus-destroying-food.html$

^{``}https://www.unep.org/news-and-stories/story/how-feed-10-billion-people

¹² https://www.who.int/news-room/detail/15-07-2019-world-hunger-is-still-not-going-down-after-three-years-and-obesity-is-still-growing-un-report

The tragedy of waste - how food not eaten is hurting our planet | CONTINUED

The economic impact of food waste is equally shocking. The UN Food and Agriculture Organisation (FAO) estimates that impact to be around **US\$1 trillion** each year.



In Trinidad and Tobago, a survey conducted by the World Food Programme in 2021 found that nearly **25%** of respondents were forced to cut food consumption due to financial pressures during the pandemic, with **4%** going without food for an entire day in the week prior to the survey.¹³

This alarming rate of food insecurity is replicated across the world, and casts food waste as a moral crime against humanity.

The economic impact of food waste is equally shocking. The UN Food and Agriculture Organisation (FAO) estimates that impact to be around US\$1 trillion each year.¹⁴ Factor in externalities associated with lost resources, environmental degradation and imbalanced access to nutrition - among others - and that cost multiplies to US\$2.6 trillion.¹⁵

Looking at available data for Trinidad and Tobago, the millions lost to food waste from crops such as cassava and tomatoes represent missed financial opportunities for hundreds of food industry stakeholders. Lost sales income and inputs such as fertilisers and pesticides, and the opportunity costs of time spent planting and harvesting, add to the list of challenges farmers face. As we look to diversify our economy and reduce our food import bill through agriculture, these are losses we cannot afford to continue enduring.

A third and increasingly important dimension of impact is environmental. Rotting food in landfills emits methane - an extremely potent greenhouse gas which is accelerating climate change. Its contribution to global emissions is so high, in fact, that the FAO has stated: "If food waste was a country, it would be the third largest carbon emitter, after the United States and China."¹⁶

Viewed from another angle, food waste accounts for 38% of total energy usage in the global food system.¹⁷ This means that emissions associated with twofifths of the energy used in our food value chain currently have no productive trade-off – we are generating those emissions in vain.

HOW CAN I HELP?

The UN has brought this issue to the fore through elaboration of a special target under Sustainable Development Goal 12 (Responsible Consumption and Production) which speaks directly to food waste. Target 12.3 aims to "halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses" by 2030.

Concerted efforts along the value chain are needed to achieve this target, including more efficient food production systems, state-supported market mechanisms that discourage waste, and effective apparatus for connecting excess food supply with demand.

However, if more than half of all food waste happens at the retail and consumer levels, then we as individuals must bear much of the burden of change. Simple actions can make a world of difference.

¹³ https://docs.wfp.org/api/documents/WFP-0000129030/download/

¹⁴ https://www.fao.org/nr/sustainability/food-loss-and-waste/en/

¹⁵ Ibid

¹⁶ https://www.fao.org/3/i3347e/i3347e.pdf

¹⁷ https://www.un.org/en/observances/end-food-waste-day

HOW CANI HELP?

FAT WISELY

At home, try

using smaller

plates. We are

conditioned to

fill our plates

and this can

we can finish.

when serving,

sometimes mean

taking more than

SHOP PURPOSEFULLY

VS

USE

If dining out,

portion sizes

before you

Share where

possible.

buy.

ask about



Plan your meals where possible to ensure you only purchase items you are going to use.

Pay attention to 'sell SELL by', 'use by', and expiry dates. 'Sell by' dates are a guide for inventory management, and not indicators of food quality. Items past their 'use by' or expiry dates, however, may not be safe to consume.



SUPPORT LOCAL

Buy locally grown produce to help clear the local market and reduce losses to farmers.

Patronise farmers in your community where possible - reducing the distance from farm to market means fewer losses of perishable items during handling and transportation.

DONATE

ORGANISE YOUR FOOD

Cook just

enough to serve

vour household

or guests, and

consume any

a short

timeframe.

leftovers within



Before going to the grocery or market, take stock of what you have in your pantry or fridge so you do not purchase unnecessarily.

In your refrigerator, arrange produce and leftovers in such a way that items with a short shelf life are prominently in view.

In your cupboards, bring items close to expiration to the front of shelves so they can be used first.

If you have a surplus of food, share with a neighbour or someone in need (once it is safe to consume).

Donate unwanted canned or dry goods to food banks, shelters etc. once they are safe to consume.

If you own a food business, partner with organisations that coordinate food donations if you have food to spare (eq. Nourish TT).

If the world is to achieve its sustainability targets by the year 2030, we need more individual accountability. Food waste is one of society's biggest yet unrecognised problems, but fortunately, it can be addressed with relatively simple solutions. Much of it boils down to consumer awareness and resolve to

take action. We must recognise that our consumption practices have externalities, and that for better or worse, our choices have the power to effect change. So, the next time you go grocery shopping or sit down for a meal, take only what you need and please, clean your plate.