



PEF President's Message



Dr. Vijay Yadav Tokala
President

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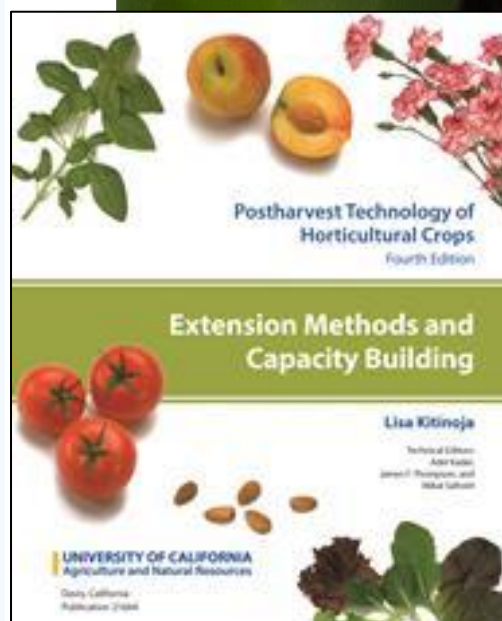
PEF is happy to start the year 2023 by publishing the PEF Postharvest E-learning Manual translated into Espanol and Francais. The translated versions are now available for free download to facilitate trainees from Hispanic and Francophone countries. Now we are left with only seven years to 2030 Agenda of Sustainable Development Goals (SDG), and there is still a scope for a lot of possible actions to reduce food loss and waste. This year we are planning for 'Postharvest Leadership Awards' for e-learners to take on key leadership roles in postharvest training in their own country and region of the world, in order to further the work of PEF. Any donations to support our work would be greatly appreciated and a sincere gratitude to those who have already contributed.

Wishing you all the very best and a prosperous year ahead.

Extension Methods and Capacity Building

Postharvest extension professionals from universities and research facilities from around the world offer potentially beneficial postharvest management methods on a variety of platforms. Extension agents, farm advisors, postharvest consultants, and agricultural development staff must be able to recognize technologies that are economically viable, suited to their customers' needs, and both consumer and market-acceptable. How can extension specialists assist their clients in deciding which of the several postharvest technologies would best address the issue at hand? The volume **'Extension Methods and Capacity Building'** authored by **Dr Lisa Kitinoja** will be able to respond to these queries.

Website: <https://anrcatalog.ucanr.edu/Details.aspx?itemNo=21664>





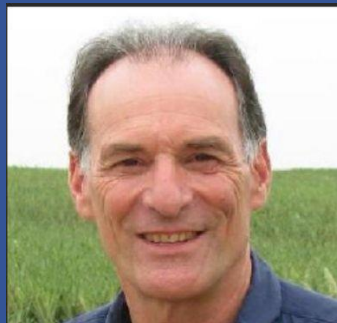
The Postharvest Education Foundation

Website: www.postharvest.org | E-mail: postharvest@postharvest.org

We will miss you.. 🍀 🍀

Dr. Devon Zagory - PEF will miss the support, advice and cheerfulness. He was one of Founding Directors of PEF, with a lifelong love of postharvest technology, research and training.

We pray that your soul finds peace. 🙏



PEF Postharvest E-learning Manual - now in Espanol and Francais!!

Manual de educación postcosecha a distancia (PEF)

Formación de capacitadores y especialistas en extensión de postcosecha:
Prácticas de manejo postcosecha a pequeña escala y tecnologías mejoradas para reducir las pérdidas de alimentos.

Autora

Lisa Kitinoja

Traducido por

Mireya Ramírez Pérez y Arturo Duarte Sierra



Enero 2023

ISBN: 978-1-62027-023-3

Manuel PEF de formation en ligne après récolte

Formation de Formateurs (FdF) en Post-Récolte et de Spécialistes en Vulgarisation :
Pratiques de manutention après récolte à petite échelle et technologies améliorées pour réduire les pertes alimentaires

Auteure

Lisa Kitinoja

The Postharvest Education Foundation (PEF), USA

Traduit par

Yasmine Lamri et Arturo Duarte Sierra

Université Laval, Québec, Canada



Janvier 2023

ISBN 978-1-62027-021-9

PEF has started the year 2023 by publishing the PEF Postharvest E-learning Manual translated into Espanol and Francais. The translated versions are now available for free download to facilitate trainees from Hispanic and Francophone countries. PEF appreciates the efforts of **Arturo Duarte Sierra; Yasmine Lamri** and **Mireya Ramírez Pérez** in translating the manual.

Special thanks to **Hala Chahine-Tsouvalakis, Guy Kodjogbe** and **Deirdre Holcroft** for reviewing the French translation. And thanks to **Karin Alborno Molina, Karol Alpizar** and **Sofia Flores Vivar** for reviewing the Spanish translation.

PEF Postharvest E-learning Manual - Espanol translation - http://postharvest.org/PEF_Manual_Espanol.pdf

PEF Postharvest E-learning Manual - Francais translation - http://postharvest.org/PEF_Manual_Francais.pdf

PEF Postharvest E-learning Manual (3rd Edition) - English - <https://form.jotform.com/211392150163445>

Please feel free to let us know your comments and suggestions towards improving the translated versions.

Design Improvements for Applied Postharvest Studies

The white paper authored by **Dr Deirdre Holcroft** (Vice President, PEF) aims to provide practical assistance on designing and conducting research experiments that can be used to make decisions about adopting new practices under real-world conditions. It is not recommended to change postharvest handling practices based on an opinion or on poorly designed applied research.

Download the white paper at :

http://postharvest.org/PEF_White_Paper_22-01_Deirdre_Designs.pdf

Design Improvements for Applied Postharvest Studies

PEF White Paper 22-01

Deirdre Holcroft

The Postharvest Education Foundation, La Pine, Oregon, USA
Holcroft Postharvest Consulting, Lectoure, France



November 2022



3rd WPL Post-Harvest Loss Prevention Forum (PHLPF)

The 3rd Wider Perspectives Limited (WPL) Post-Harvest Loss Prevention Forum (PHLPF) was organized by WPL on 27 October 2022. The theme of the forum was 'Exploring opportunities through postharvest loss prevention'.

Dr Olubukola Odeyemi represented PEF in the forum and was a panel member. She has discussed the challenges associated with capacity building programs and about the business opportunities within the value chain while trying to prevent food losses. The recording of the program is available at: <https://bit.ly/3jQ0GKS>

The poster for the 3rd WPL Post-Harvest Loss Prevention Forum (PHLPF) features the logos of Wider Perspectives Limited (WPL) and the Nigerian Stored Products Research Institute (NSPRI). The theme is "Exploring Opportunities through Post-Harvest Loss Prevention". It lists four speakers: **NIKENDE REWURU** (Executive Director, NSPRI), **DAI GABRIEL** (Executive Director, WPL), **SUNWOLA ODEYEMI** (Dr. Olubukola Odeyemi, PEF), and **DR. WILLY ODOHIAH WINKO** (Executive Director, WPL). The event is scheduled for Thursday, October 27, 2022, from 11:00am to 12:30pm. The participation link is <https://bit.ly/3rdWPL-PHLPF>. It also includes contact information for partnerships and enquiries, and a list of partners.

SDG Target 12.3 on Food Loss and Waste: 2022 Progress Report



SDG TARGET 12.3 ON FOOD LOSS AND WASTE: 2022 PROGRESS REPORT

An annual update on behalf of Champions 12.3



EXECUTIVE SUMMARY

Highlights

- At the near halfway point of the Sustainable Development Goals (SDGs), global progress by governments and companies on achieving SDG 12.3 is slower than needed when compared to the Champions 12.3 Road Map.
- In regard to setting targets that align with SDG 12.3, both countries and companies are lagging behind where they should be. However, this may be because leaders assume that the SDGs serve as an implicit target and therefore do not need to set a specific target for food loss and waste.
- Companies are outperforming national governments when it comes to measurement and reporting of food loss and waste, but significant data gaps still exist. Developments from the International Organization for Standardization (ISO) and the European Commission may improve country-level reporting in coming years.
- Companies are also taking action to address food loss and waste at a greater rate than countries, although some large countries have begun to take more prominent action.
- As for companies, more of them need to work with their suppliers to address food loss and waste through the entire supply chain. Retailers are currently leading other companies in this regard.
- With eight years to go until 2030, more countries and companies need to follow the examples of global leaders and begin systematically addressing food loss and waste.

ABOUT THIS PUBLICATION

SDG Target 12.3 on Food Loss and Waste 2022 Progress Report is the seventh in an annual series of publications providing an assessment of the world's progress toward achieving Sustainable Development Goal Target 12.3. SDG 12.3 aims to "By 2030, 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." Inspired on behalf of Champions 12.3, this publication seeks to inform decision makers in government, business, academia, and civil society about recent advances and what remaining steps need to be addressed if the world is to achieve the target. The 2020-2022 Progress Reports can be found at <https://www.champions12.3.org>

This progress report contains text from the previous editions in the series, with permission of the authors of those editions.

AUTHOR

This publication was prepared by Brian Lipinski of the World Resources Institute.

The author thanks Champions 12.3 and their associates for reviewing and providing helpful input on draft versions of this publication (see acknowledgments).

The progress report assesses the world's progress toward reaching Sustainable Development Goal 12.3 on food loss and waste. By 2030, SDG 12.3 intends to "cut food losses throughout the production and supply chains, including post-harvest losses, by half and minimize food waste at the retail and consumer levels." At the near-halfway point of the Sustainable Development Goals (SDGs), global progress by governments and companies on achieving SDG 12.3 is slower than needed when compared to the Champions 12.3 Road Map.

Download report at : <https://bit.ly/3ioGijC>

Post-Harvest Women Foundation, Ghana

PEF donated funds to support the training work of **Patience Worlali Kpeda and the Post-Harvest Women Foundation** in Ghana. A training program on Grain Hermetic storage bags was held in the Eastern Region - Akwatia, and 100 storage bags were given to smallholder growers. Several additional postharvest training programs will be offered for local women's groups during 2023





IUFoST Conference, Singapore



Ms Mercy Mmari

Singapore Institute of Food Science & Technology (SIFST), with the endorsement of the **International Union of Food Science & Technology (IUFoST)**, and support from the Singapore Tourism Board (STB), organized the 21st IUFoST World Congress of Food Science & Technology from 31 October to 3 November 2022.

The 2022 World Congress was held at the Marina Bay Sands Convention Centre with the conference theme - "Future of Food - Innovation, Sustainability & Health". **Ms Mercy Mmari** of the Tanzanian Institute of Food Science and Technology (TIFST) stood in for **Ms Bertha Mjawa** representing The Postharvest Education Foundation along with her co-authors, **Drs Lisa Kitinoja and Diane Barrett**.

Sustainable and Resilient Cold-Chains: The 2050 Imperative

The Local to Global Cold-chain summit took place on the 29th September 2022 at the University of Birmingham, hosted by the Centre of Sustainable Cooling. The event brought together more than 50 research, industry and government partners from the UK, EU and Africa to share their knowledge and discuss research and innovation needs and collaboration opportunities to operationalize sustainable, equitable and resilient cold-chains for food and health globally. This report explores the outcomes of the summit.

Download report: <https://bit.ly/3WW9z4b>

Other resources: <https://www.sustainablecooling.org/resources/>

Sustainable and Resilient Cold-Chains: The 2050 Imperative

The Local to Global Cold-Chain Summit:
Addressing Key Factors for Success

Conference Report

December 2022



Hudson Global Development Fund Awardee- Ms. Lucy Asare-Baah



ZECC at Shorter, Macon County, Alabama with owner and Lucy.

Ms. Lucy Asare-Baah, a graduate of PEF and WFLO e-learning program from Tuskegee University, was awarded a Hudson Global Development Fund to support demonstration and extension of Zero Energy Cool Chambers (ZECCs) in four counties of Alabama. Smallholder horticulture farmers were her target audience.



USDA Food Loss and Waste Activities from Around the World

The U.S. Department of Agriculture hosted an international roundtable webinar to discuss, "Food Loss and Waste Activities from Around the World." Webinar speakers shared their work and experiences with national and municipal level governments to reduce food waste and increase food recycling in Denmark, South Korea, Rwanda, Chile, Peru,



and the United States. The event was moderated by Dr. Jean C. Buzby, USDA Food Loss and Waste Liaison. The recording of the discussion is now available via this link: <https://youtu.be/FiM9DUIk7Dw>. For more information on food loss and waste, please see the USDA website pages: <https://www.usda.gov/foodlossandwaste>

Agrilinks - Food Loss and Waste Month - December 2022

Agrilinks has announced December 2022 as Food Loss and Waste Month. It published blogposts on the linkages between FLW and climate, nutrition and food security, food safety and more. Blog posts spanned topics related to the role of the private sector and youth, the power of technologies to improve cold chain and post-harvest handling, and much more. Some of the interesting blogposts are listed below and further details visit: <https://bit.ly/3jQ4EmK>

- **Thoric Cederstrom**, FES. Food Loss and Waste: Building an Evidence-Based Business Case for SMEs <https://agrilinks.org/post/food-loss-and-waste-building-evidence-based-business-case-smes>
- **Matthew Thielker**, USAID. Three Ways to Combat Climate Change by Reducing Food Loss and Waste. <https://agrilinks.org/post/three-ways-combat-climate-change-reducing-food-loss-and-waste>
- **Amanda Brondy**, GCCA. Maximizing Food through Cold Chain Development. <https://agrilinks.org/post/maximizing-food-through-cold-chain-development>
- **Jacob Ricker-Gilbert**, Purdue University. Supporting Rural Youth to Reduce Food Loss and Waste while Building Sustainable Supply Chains: Evidence from Eastern Kenya. <https://agrilinks.org/post/supporting-rural-youth-reduce-food-loss-and-waste-while-building-sustainable-supply-chains>

In 2023, PEF will be closing our **Twitter and Pinterest social media accounts**. You are welcome to continue to receive our news and information by visiting our website (www.postharvest.org) and joining our 10,000+ members as part of our Postharvest Training discussion group on LinkedIn. <https://www.linkedin.com/groups/3770124/>



Some Postharvest YouTube channels

To start with the new year, here are some of the interesting postharvest related YouTube channels for you to explore.

- **Postharvest Technologies:** <https://www.youtube.com/c/PostHarvestTechnologies>
- **UC Postharvest Center:** <https://www.youtube.com/user/ucdpostharvest>
- **Losses along Kenya's value-chain and ongoing interventions -Wageningen University & Research:** https://www.youtube.com/watch?v=Zk_624eEwVA
- **Postharvest Handling for Fruit and Vegetable Growers:**
<https://www.youtube.com/watch?v=rBMdyCYcMUc>
- **Proper Postharvest Handling of Berries:** <https://www.youtube.com/watch?v=PG5roJXtZp4>
- **UVM Postharvest webinars on planning a packhouse:**
<https://www.youtube.com/playlist?list=PLRhtZw1o6RdFflbL5Y9FRNf4GcLmeNU9M>
- **Postharvest Practices to Get the Longest Shelf Life From Your Crop (Univ of Tenn Institute Extension):** <https://www.youtube.com/watch?v=0NiAq19D-Ww>
- **Postharvest Management to Ensure Food Security and the Critical Role of Capacity Building (ECHO Conference):** <https://www.youtube.com/watch?v=-DqUavch4uY>
- **FAO Webinar: Harvest and post-harvest practices to reduce food loss and waste**
<https://www.youtube.com/watch?v=rOOQB4hZHC4>
- **Researching Postharvest for Smallholder Tomato Farmers in Burkina Faso (Hort Innov Lab, ABA, PEF) 2018:** <https://www.youtube.com/watch?v=obeEmBNux0g>

Donations Request for 'Postharvest Leadership Award'

In 2023 PEF will be awarding 3 individuals from Africa and/or South Asia with a "**Postharvest Leadership Award**", including a **7 day trip** to visit PEF in Oregon and UC Davis in California and meet with colleagues at the Horticulture Innovation Lab and the UC Postharvest Technology Center. We are requesting donations to help PEF support the costs of international airfares, hotel rooms and local travel.

Dr. Diane M. Barrett and **Dr. Lisa Kitinoja** (as volunteer board members) will lead this PEF leadership tour, and awardees will each receive a large bundle of postharvest tools, training materials, reference books and demonstration supplies valued at **\$1500**. Each awardee will be mentored over the next few years as they **take on key leadership roles in postharvest training** in their own country and region of the world, in order to further the work of PEF. Donations to The Postharvest Education Foundation to support this effort would be greatly appreciated. It is easy to donate online via our website (www.postharvest.com) or by using **PayPal (link: [PayPal.Me/Postharvest](https://www.paypal.com/donate/?url=https://www.postharvest.com))**. Those in the USA can also use the old fashioned method of mailing a check to **PEF, PO Box 38, La Pine, Oregon 97739 USA**.



The Postharvest Education Foundation

Website: www.postharvest.org | E-mail: postharvest@postharvest.org

May the new year lead a path towards loads
of cheer and happiness in your life
Happy New Year 2023



PEF's 'Global Postharvest E-learning Program' is FREE to all

NOW AVAILABLE IN ESPANOL AND FRANCAIS

Check the website for further details and register by completing Assignment #1:

http://postharvest.org/postharvest_elearning_program1.aspx

SUPPORT OUR WORK

The Postharvest Education Foundation is a 501(c)(3) non-profit public charity with aim to reduce global food losses, which are as high as up to 50%.

General donations to The Postharvest Education Foundation are used for 3 major program activities:

- **Postharvest tool kit:** For e-learners from developing country who complete their training (US\$400 each).
- **Postharvest Closing Workshops** for e-learning graduates (Estimated as \$1200 per e-learner).
- **Travel Support:** To pay for the travel expenses to attend international postharvest training programs (air tickets, hotels, food, local transport costs) (Estimated as \$1500-\$2000 per e-learner).

Kindly check our website (<http://www.postharvest.org/donate.aspx>) for other alternate ways to donate.

Thanks in advance for your tax-deductible donation, which will be used to train young horticultural professionals via low cost internet based programs, with reading assignments, fieldwork on improved practices for postharvest handling, storage, processing and marketing.

Mail us at postharvest@postharvest.org any postharvest related questions you wish to be answered.

Email us at newsletter@postharvest.org to subscribe to the PEF newsletter

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