



PEF President's Message

The beginning of the year 2023 has been busy and rewarding. PEF published a new manual – “Reducing Postharvest Losses in Sub-Saharan Africa: Training for Extension workers, Technical specialists and Field practitioners”. We are working on similar package suitable for practitioners in Asia & the Pacific region. The 4th All Africa Postharvest Congress and Exhibition has been scheduled from 19 to 22 September 2023 in Addis Ababa. PEF board members and graduates are actively involved on the organizing committees.

The PEF board is excited to see the new initiatives and success stories. Please continue sending us your training updates, photos and postharvest news so we can share them in our next newsletter.



Dr. Vijay Yadav Tokala
President

vijayyadav.t@postharvest.org

4th All Africa Postharvest Congress and Exhibition (4th AAPHCE)



SAVE THE DATE: 19TH – 22ND SEPTEMBER 2023

4TH ALL AFRICA POSTHARVEST CONGRESS AND EXHIBITION (PHYSICAL)

Sustainable Postharvest Management: Boosting Intra-African Agricultural Trade and Enhancing Food and Nutrition Security

Call for Sponsors, Abstracts/Papers, Speakers, Exhibitors & Side Events

HOSTED BY THE AFRICAN UNION COMMISSION AT THE AFRICAN UNION HEADQUARTERS, ADDIS ABABA, ETHIOPIA

Email: postharvest@aaphce.com

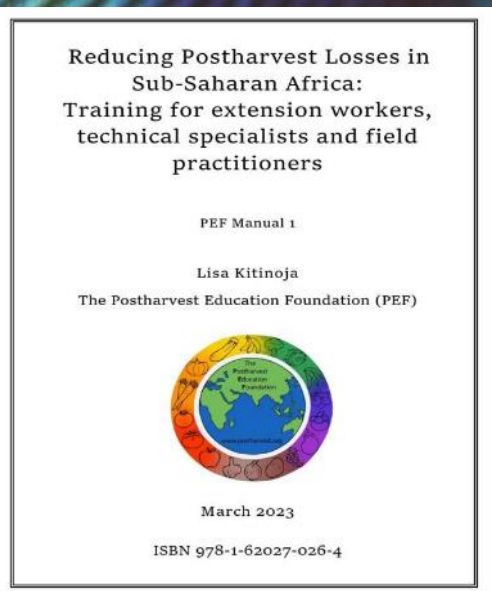
Website: www.aaphce.com

4th AAPHCE, a Pan-African event has been scheduled for **19 to 22 September 2023**. The African Union Commission (AUC) will hold the physical congress at its headquarters in Addis Ababa, Ethiopia. important platform to raise awareness about Food loss and wastes in the African context.

The Congress theme is **Sustainable Postharvest Management: Boosting Intra-African Agricultural Trade and Enhancing Food and Nutrition Security**. The AUC is putting up the congress with the help of a number of partners, including organizations involved in development, business, academic and research institutions, and civil society. The PEF graduates have been actively involved on planning and technical committees of the congress since its inception in 2017.



Reducing Postharvest Losses in Sub-Saharan Africa: New PEF Manual



The manual "**Reducing Postharvest Losses in Sub-Saharan Africa: Training for Extension workers, Technical specialists and Field practitioners**" authored by Dr. Lisa Kitinoja, Founder and Treasurer of The Postharvest Education Foundation is now ready for download for free at http://postharvest.org/PEF_2023_Manual_1_RPL_SSA.pdf

The training manual for SSA provides a range of options for food loss (FL) reduction, to be selected and applied in SSA based upon the causes of losses that have been identified along the food supply chains and the costs and potential benefits of the potential solutions for different beneficiary groups.

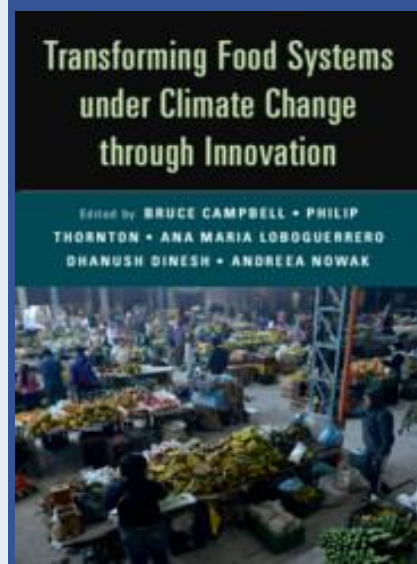
Manual 1 consists 4 Modules:

- Module 1.1 Overview: Sub-Saharan Africa - Reducing Postharvest Losses
- Module 1.2 Reducing Postharvest Losses in SSA: Cereals and Pulses
- Module 1.3 Reducing Postharvest Losses in SSA: Roots and Tubers
- Module 1.4 Reducing Postharvest Losses in SSA: Fruits and Vegetables

Many thanks to our postharvest colleagues, supporters and PEF e-learning graduates all around the world for sharing their photos and experiences in the field.

Reducing Greenhouse Gas Emissions by Reducing Food Loss and Waste

The book "**Transforming Food Systems Under Climate Change through Innovation**" describes many methods and ideas that can be used to address food system transformation and brings together viewpoints from various fields, including climate, environment, agriculture, and the social sciences. The chapter "Reducing Greenhouse Gas Emissions by Reducing Food Loss and Waste" in book explains that Food loss and waste (FLW) are important contributors to not only food insecurity but also considerable environmental impact. FLW-reducing interventions mostly contribute to climate mitigations; however, some technological interventions may induce higher extra GHG emissions



The book is available for download as Open Access on Cambridge Core. <https://bit.ly/3GLwNnK>



Measuring Food Loss Among Senegalese Growing Food Businesses

In order to help food businesses, identify and track food loss and better understand how it affects their bottom line, the **Feed the Future Business Drivers for Food Safety (BD4FS)** initiative, financed by USAID and implemented by Food Enterprise Solutions (FES), established food loss guidelines. This Technical Learning Note details the experiences in implementing these protocols at actual businesses in Senegal in an effort to help those organizations reduce food loss by implementing improved food handling procedures. In order to help private sector growing food businesses lower their postharvest losses



BD4FS collaborated with them to better understand the potential and challenges that will shape these companies. These FLW Measurement Practices and Food Safety Protocols were developed by **Dr. Lisa Kitinoja** and adapted for use in Senegal. [[Download report](#)]

AgriFood Processing Strategies For Successful Food Systems Transformation In Africa

ReSAKSS
Regional Strategic Analysis and Knowledge Support System

Annual
Trends
and
Outlook
Report | 20
22

AGRIFOOD PROCESSING STRATEGIES FOR SUCCESSFUL FOOD SYSTEMS TRANSFORMATION IN AFRICA

Edited by
Chakib Jenane, John M. Ulimwengu, and Getaw Tadesse

The **2022 Annual Trends and Outlook Report**

generates evidence to guide the ongoing transformation of African food systems through well-concerted and targeted policy interventions in the agrifood processing sector. The report examines the data and knowledge that is currently available and developing in numerous policy areas connected to the processing sector of agrifood value chains. It confirms the growing opportunities for

agrifood industrialization in Africa, which are being driven by rising urbanization and middle-class consumers, and it sheds light on crucial areas for policymakers and partners to develop policies and make investments that strengthen the sector and increase its capacity to provide healthy diets for everyone. [[Download report](#)]

New Postharvest Agribusinesses in Nigeria



PEF E-learning graduate **Chinyere Esther Onyia** (Nigeria, 2018) is busy managing two postharvest businesses. **Agriplaz Logistics** for reliable handling of international logistics, especially valued documents. **Agriplaz Africa** for frozen foods and consultancy services.



Driven To Waste: The Global Impact Of Food Loss And Waste On Farms



The **Driven To Waste: The Global Impact Of Food Loss And Waste On Farms**, is the report from the project which underwent in four steps starting with estimation of global farm stage food losses, followed by analysis of the environmental, social and economic impacts of farm stage losses, development of case studies to sense check global farm stage food loss estimates, and exploration of food loss drivers and mitigating actions. The study focused solely on the agricultural production stage and has developed an approach designed to make the most effective use of available data, whilst also highlighting where data deficiencies limit the reliability of estimates and hotspot identification. [[Download report](#)]

Report on pre- and post-harvest crop losses pilot survey (2021-2022)

The pre- and post-harvest loss pilot study, which was conducted by Food and Agriculture Organization of the United Nations, Rome and Ethiopian Statistics Service, Addis Ababa in 2021-2022, was designed to gather information on the **scope of pre- and post-harvest losses of maize, wheat, Faba beans, and Haricot bean crops** across the postharvest value chain. It covered socio-demographics, agricultural practices, harvest and postharvest operations and loss prevention strategies in the Amhara, Oromia, and Southern Nations and Nationalities areas of Ethiopia.

Download report:

<https://www.fao.org/documents/card/en/c/cc3937en>



REPORT ON PRE- AND POST-HARVEST CROP LOSSES PILOT SURVEY (2021-2022)



Congratulations to Gerefa Sefu!!!



Mr. Gerefa Sefu, a PEF graduate from Ethiopia was selected for the 14-day international training on "Mass Production and Quality Control of Biopesticides" hosted by National Institute of Plant Health Management, India. He has also begun his PhD program in postharvest technologies at Jiangsu University, China. Wish you the very best!!



Food Loss and Waste in Fruit and Vegetable Supply Chains

A policy seminar was co-organized by IFPRI, Embassy of Denmark, and World Resources Institute on the topic '**Food Loss and Waste in Fruit and Vegetable Supply Chains**'. Through initiatives like Champions 12.3, a coalition of leaders from governments, businesses, international organizations, research institutions, farmer groups, and civil

society committed to inspiring ambition, mobilizing action, and accelerating progress towards a more sustainable future, this event assessed efforts made around the world to combat food loss and waste. In-depth discussion of fruits and vegetables, which are among the healthiest but most-wasted foods, was also covered during the session. Due to their perishable nature, fruit and vegetable value chains require significant care, cooperation, and attention in order to minimize food loss and waste.

Watch the recording of session at <https://www.ifpri.org/event/food-loss-and-waste-fruit-and-vegetable-supply-chains>



The Salzburg Process On The Climate Emergency & The Future Of Food

REFLECTIONS ON

THE SALZBURG PROCESS ON THE CLIMATE EMERGENCY & THE FUTURE OF FOOD

Transformations for a 1.5°C World

A LEARNING PATHWAY
MAY 2020 TO MAY 2021GLOBAL ALLIANCE
FOR THE
FUTURE
OF FOOD

Food and agricultural systems both contribute to and are heavily impacted by climate change, but they also play a critical role in the urgently needed solutions. Globally, coordinated action is needed to transform important sectors, systems, and financial flows in order to keep global warming below 1.5°C by 2050, while also halting biodiversity loss, reducing inequality, upholding ecological resilience, health, and well-being, as well as transparent, inclusive, and participatory governance processes.

The Global Alliance for the Future of Food and Salzburg Global Seminar co-hosted the **Salzburg Process on the Climate Emergency & the Future of Food**, an international dialogue aimed

accelerating the initiatives, investments, and regulations required for wholesome, equitable, resilient, and diverse food systems. The debate was created for strategic alignment on critical areas for transformation at the intersection of climate and food by blending the thought-provoking lectures and carefully curated conversations. **Dr. Lisa Kitinoja** represented PEF on the food loss/waste working group.

Download report: https://futureoffood.org/wp-content/uploads/2021/05/SalzburgProcessDoc_50621.1.pdf



The Postharvest Education Foundation

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

ZoCool! Smart cooling using solar energy



ZoCool is a control system developed by team at Wageningen University and Research that makes maximum use of solar energy to cool fresh products. The system can make the normal cooling process more sustainable on a limited budget, improves its ability to cool and maintain the quality of the products.

This system can run the cooling process smoothly despite the fact that there might be fluctuations in demand of cooling and the supply of solar energy.

Postharvest Courses

The **8th Edition of the International ON-LINE Course on Postharvest & Fresh-Cut Technologies** will be soon offered by the Universidad Politécnica de Cartagena (Spain). It consists of 50 recorded videos and gathers 43 relevant instructors from the 5 Continents, 21 Countries and 32 Universities / Research Centers. An official Diploma will be awarded by the Universidad Politécnica de Cartagena.



2023
POSTHARVEST TECHNOLOGY
OF HORTICULTURAL CROPS
Short Course

The **Postharvest Technology of Horticultural Crops Short Course** by University of California, Davis is an intensive study of the biology and current technologies used for handling fruits, nuts, vegetables and ornamentals. It is designed for research and extension workers, quality control personnel and other professionals interested in current advances in postharvest technology of horticultural crops.

Australia Awards Africa Scholarship Program

The **Australia Awards Africa Scholarship** program combines Masters, Fellowships and Short Course opportunities to build skills and capabilities in key sectors, thereby contributing to social and economic development outcomes for African nations and the Sustainable Development Goals.

<https://www.dfat.gov.au/geo/africa-middle-east/development-assistance-in-sub-saharan-africa/australia-awards-africa>



The Postharvest Education Foundation

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

Postharvest Management Manual And Training Aids

During February - March 2023, PEF President **Vijay Yadav Tokala** and board members **Olubukola Odeyemi, Guy Kodjogbe** and **Lisa Kitinoja** compiled and edited an updated postharvest management manual and training aids in English and in French for GAIN's Kenya office. The Global Alliance for Improved Nutrition (GAIN) is working with local educational and extension agencies in multiple Africa countries on reducing losses for nutrition dense horticultural crops.

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

NOW AVAILABLE IN ESPANOL AND FRANCAIS

Check the website for further details. No need to register, and you can start at any time!

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:

- o Postharvest tool kit: For e-learners from developing country who complete their training (US\$400 each).
- o Postharvest Closing Workshops for e-learning graduates (Estimated as \$1200 per e-learner).
- o Travel Support: To pay for the travel expenses to attend international postharvest training programs and conferences (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

Contact Us:

The Postharvest Education Foundation

PO Box 38, La Pine, Oregon 97739 USA

Office telephone: 1 (916) 708 7218

Email: postharvest@postharvest.org

Website: www.postharvest.org

Connect with us on:

