

Postharvest Disease Management Principles And Treatments

Agriculture in California

efficacy improvement of biocontrol agents for postharvest diseases management“; *Postharvest Biology and Technology*. 179 111572. doi:10.1016/j.postharvbio

Agriculture is a significant sector in California's economy, producing nearly US\$50 billion in revenue in 2018. There are more than 400 commodity crops grown across California, including a significant portion of all fruits, vegetables, and nuts in the United States. In 2017, there were 77,100 unique farms and ranches in the state, operating across 25.3 million acres (10,200,000 hectares) of land. The average farm size was 328 acres (133 ha), significantly less than the average farm size in the U.S. of 444 acres (180 ha).

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Because of its scale, and the naturally arid climate, the agricultural sector uses about 40 percent of California's water consumption. The agricultural sector is also connected to other negative environmental and health impacts, including being one of the principal sources...

Calcium chloride

(2011). *“Pre- and Postharvest Treatments Affecting Nutritional Quality”*.
Comprehensive Biotechnology. Pre- and Postharvest Treatments Affecting Nutritional

Calcium chloride is an inorganic compound, a salt with the chemical formula CaCl_2 . It is a white crystalline solid at room temperature, and it is highly soluble in water. It can be created by neutralising hydrochloric acid with calcium hydroxide.

Calcium chloride is commonly encountered as a hydrated solid with generic formula $\text{CaCl}_2 \cdot n\text{H}_2\text{O}$, where $n = 0, 1, 2, 4, \text{ and } 6$. These compounds are mainly used for de-icing and dust control. Because the anhydrous salt is hygroscopic and deliquescent, it is used as a desiccant.

Food loss and waste

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ISSN 0306-9192. Mrema, C. G. and Rolle, S. R. (2002). Status of the postharvest sector and its contribution to agricultural development and economic growth. 9th

The causes of food going uneaten are numerous and occur throughout the food system, during production, processing, distribution, retail and food service sales, and consumption. Overall, about one-third of the world's food is thrown away. A similar amount is lost on top of that by feeding human-edible food to farm animals (the net effect wastes an estimated 1144 kcal/person/day). A 2021 meta-analysis, that did not include food lost during production, by the United Nations Environment Programme found that food waste was a challenge in all countries at all levels of economic development. The analysis estimated that global food waste was 931 million tonnes of food waste (about 121 kg per capita) across three sectors: 61 percent from households, 26 percent from food service and 13 percent from retail...

Cabbage

including boron, calcium, phosphorus and potassium. There are several physiological disorders that can affect the postharvest appearance of cabbage. Internal

Cabbage, comprising several cultivars of *Brassica oleracea*, is a leafy green, red (purple), or

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white (pale green) biennial plant grown as an annual vegetable crop for its dense-leaved heads. It is descended from the wild cabbage (*B. oleracea* var. *oleracea*), and belongs to the "cole crops" or brassicas, meaning it is closely related to broccoli and cauliflower (var. *botrytis*); Brussels sprouts (var. *gemmifera*); and Savoy cabbage (var. *sabauda*).

A cabbage generally weighs between 500 and 1,000 grams (1 and 2 lb). Smooth-leaved, firm-headed green cabbages are the most common, with smooth-leaved purple cabbages and crinkle-leaved savoy cabbages of both colours being rarer. Under conditions of long sunny days, such as those found at high northern latitudes in summer, cabbages can grow quite large...

T-2 mycotoxin

Preharvest Technology and Quality Control of Foodgrains (REGNET) and the ASEAN Grain Postharvest Programme (Report). Thailand. Cortinovis C, Pizzo F, Spicer

T-2 mycotoxin is a trichothecene mycotoxin. It is a naturally occurring mold byproduct of *Fusarium* spp. fungus which is toxic to humans and other animals. The clinical condition it causes is alimentary toxic aleukia and a host of symptoms related to organs as diverse as

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the skin, airway, and stomach. Ingestion may come from consumption of moldy whole grains. T-2 can be absorbed through human skin. Although no significant systemic effects are expected after dermal contact in normal agricultural or residential environments, local skin effects can not be excluded. Hence, skin contact with T-2 should be limited.

Rice

2023. Kumar, Deepak; Kalita, Prasanta (January 15, 2017). "Reducing Postharvest Losses during Storage of Grain Crops to Strengthen Food Security in Developing

Rice is a cereal grain and in its domesticated form is the staple food of over half of the world's population, particularly in Asia and Africa. Rice is the seed of the grass species *Oryza sativa* (Asian rice)—or, much less commonly, *Oryza glaberrima* (African rice). Asian rice was domesticated in China some 13,500 to 8,200 years ago; African rice was domesticated in Africa about 3,000 years ago. Rice has become commonplace in many cultures worldwide; in 2023, 800 million tons were produced, placing it third after sugarcane and maize. Only some 8% of rice is traded internationally. China, India, and Indonesia are the largest consumers of rice. A substantial amount of the rice produced in developing nations is lost after harvest

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through factors such as poor transport and storage. Rice yields can...

Potassium permanganate

freshwater collection and treatment systems.[citation needed] Potassium permanganate is one of a number of possible treatments for Ichthyophthirius multifiliis

Potassium permanganate is an inorganic compound with the chemical formula KMnO_4 . It is a purplish-black crystalline salt, which dissolves in water as K^+ and MnO_4^- ions to give an intensely pink to purple solution.

Potassium permanganate is widely used in the chemical industry and laboratories as a strong oxidizing agent, and also as a medication for dermatitis, for cleaning wounds, and general disinfection. It is commonly used as a biocide for water treatment purposes. It is on the World Health Organization's List of Essential Medicines. In 2000, worldwide production was estimated at 30,000 tons.

Gas blending

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Repository. Food and Agriculture Organization of the United Nations. Retrieved 12 August 2025. "Modified Atmosphere Packaging". Small-scale Postharvest Handling

Gas blending is the process of mixing gases for a specific purpose where the composition of the resulting mixture is defined, and therefore, controlled.

A wide range of applications include scientific and industrial processes, food production and storage and breathing gases.

Gas mixtures are usually specified in terms of molar gas fraction (which is closely approximated by volumetric gas fraction for many permanent gases): by percentage, parts per thousand or parts per million. Volumetric gas fraction converts trivially to partial pressure ratio, following Dalton's law of partial pressures. Partial pressure blending at constant temperature is computationally simple, and pressure measurement is relatively inexpensive, but maintaining constant temperature during pressure changes requires significant...

Coconut

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Hawai'i at Mānoa. Coconut: Postharvest Care and Market Preparation (PDF). Technical Bulletin No. 27. Ministry of Fisheries, Crops and Livestock, New Guyana

The coconut tree (*Cocos nucifera*) is a member of the palm tree family (Arecaceae) and the only living species of the genus *Cocos*. The term "coconut" (or the archaic "cocoanut") can refer to the whole coconut palm, the seed, or the fruit, which botanically is a drupe, not a nut. Originally native to Central Indo-Pacific, they are now ubiquitous in coastal tropical regions and are a cultural icon of the tropics.

The coconut tree provides food, fuel, cosmetics, folk medicine and building materials, among many other uses. The inner flesh of the mature seed, as well as the coconut milk extracted from it, forms a regular part of the diets of many people in the tropics and subtropics. Coconuts are distinct from other fruits because their endosperm contains a large quantity of an almost clear liquid...

Glossary of agriculture

bale wrap and postharvest packaging, polytunnels, and feed troughs, among numerous others. pleaching The practice of interweaving the living and dead branches

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This glossary of agriculture is a list of definitions of terms and concepts used in agriculture, its sub-disciplines, and related fields, including horticulture, animal husbandry, agribusiness, and agricultural policy. For other glossaries relevant to agricultural science, see Glossary of biology, Glossary of ecology, Glossary of environmental science, and Glossary of botanical terms.

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