

Follow the Food: Opportunities for Phytosanitary Irradiation in the Global Food Supply Chain

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1. Steady rise of food imports into the U.S.





2. Fresh fruits and vegetables are among the top perishable food imports in the U.S.



Fresh/chilled fruit

- Mexico
- Chile
- Guatemala
- Costa Rica
- Ecuador

Fresh vegetables

- Mexico
- Canada
- Peru
- China
- Guatemala

Source: USDA's Economic Research Service



3. Containerized carriers command the lion's share of refrigerated ("reefer") trade...



...while the specialized carrier sector continues to lose reefer market share



4. Controlled Atmosphere technology boosts shelf life, reduces waste, and opens up new options for ocean transport of perishable food commodities

5. Key gateway ports and niche “food” ports are investing \$\$ to handle more reefer shipments





6. 3PLs and cold storage providers are likewise adding infrastructure and services to support the expanding cold chain



7. Trade lanes are fundamentally changing: the Panama Canal expansion, shifting U.S. trade policy, other disruptors

8. Evolving consumer demands are also altering the food supply chain



9. How and where we produce food is also changing





2500
gallons



800
gallons



567
gallons



368
gallons



216
gallons



1
gallon

Water required to grow one pound of protein

Crickets

are more water-efficient than
any other source of protein

bitty

“Entomophagy,” she said, as the room fell
silent...(sound of crickets chirping)

10. Ultimately, a truly integrated global cold chain promotes efficiency and safety, as well as sustainability and food security, and all of us play a role in achieving this goal



THANKS!

Any questions? I've got
some for you...
