

## **Plant Nutrients - Safety and Health Consequences**

### **Key Terms and Concepts:**

Upon completion of this course, the student should be familiar with the following terms, concepts, and programs.

#### **Food borne pathogens and illness**

*Escherichia coli* 0157:H7

Hemolytic uremic syndrome

Listeriosis

*Listeria monocytogenes*

Reiter's syndrome

Salmonellosis

Campylobacteriosis

Guillain-Barre syndrome

#### **Food irradiation**

Gamma rays

Cobalt 60

Cesium 137

Photons

Neutrons

E-beam technology

Electron beams

X-rays

Gray

Kilogray

Megarad

D value

Radura

Hazard Analysis and Critical Control Point (HACCP) system

Standard Sanitation Operating Procedures (SSOP)

#### **Food safety assessment**

Quality Adjusted Life Years (QALY)

Disability Adjusted Life Years (DALY)  
Cost of Illness Framework

**Links:**

**Information on Food Borne Diseases and Food Irradiation – US:**

Center for Disease Control and Prevention

<http://www.cdc.gov/>

Morbidity and Mortality Weekly Report, CDC

<http://www.cdc.gov/mmwr/>

Foodnet – Foodborne Diseases Active Surveillance Network, CDC

<http://www.cdc.gov/foodnet/>

The Food Irradiation Information Website

<http://www.food-irradiation.com/>

Ionizing Radiation Division, National Institute of Standards and Technology

<http://physics.nist.gov/Divisions/Div846/intro.html>

Food Irradiation 2 Wholesomeness Collection : US Government Reports from the 1950s and 1960s

<http://www.nal.usda.gov/fnic/.Foodirad-v2/food2.html>

Get Smart on the Farm Program, CDC Foundation

[http://www.cdcfoundation.org/frontline/2005/get\\_smart\\_on\\_the\\_farm.aspx](http://www.cdcfoundation.org/frontline/2005/get_smart_on_the_farm.aspx)

Irradiation and Food Safety, Food Safety and Inspection Service (FSIS), USDA

[http://www.fsis.usda.gov/Fact\\_Sheets/Irradiation\\_and\\_Food\\_Safety/index.asp](http://www.fsis.usda.gov/Fact_Sheets/Irradiation_and_Food_Safety/index.asp)

**Information on Food Borne Diseases and Food Irradiation – International:**

Nuclear Techniques in Food and Agriculture – FAO/IAEA

<http://www-naweb.iaea.org/nafa/emergency/index.html>