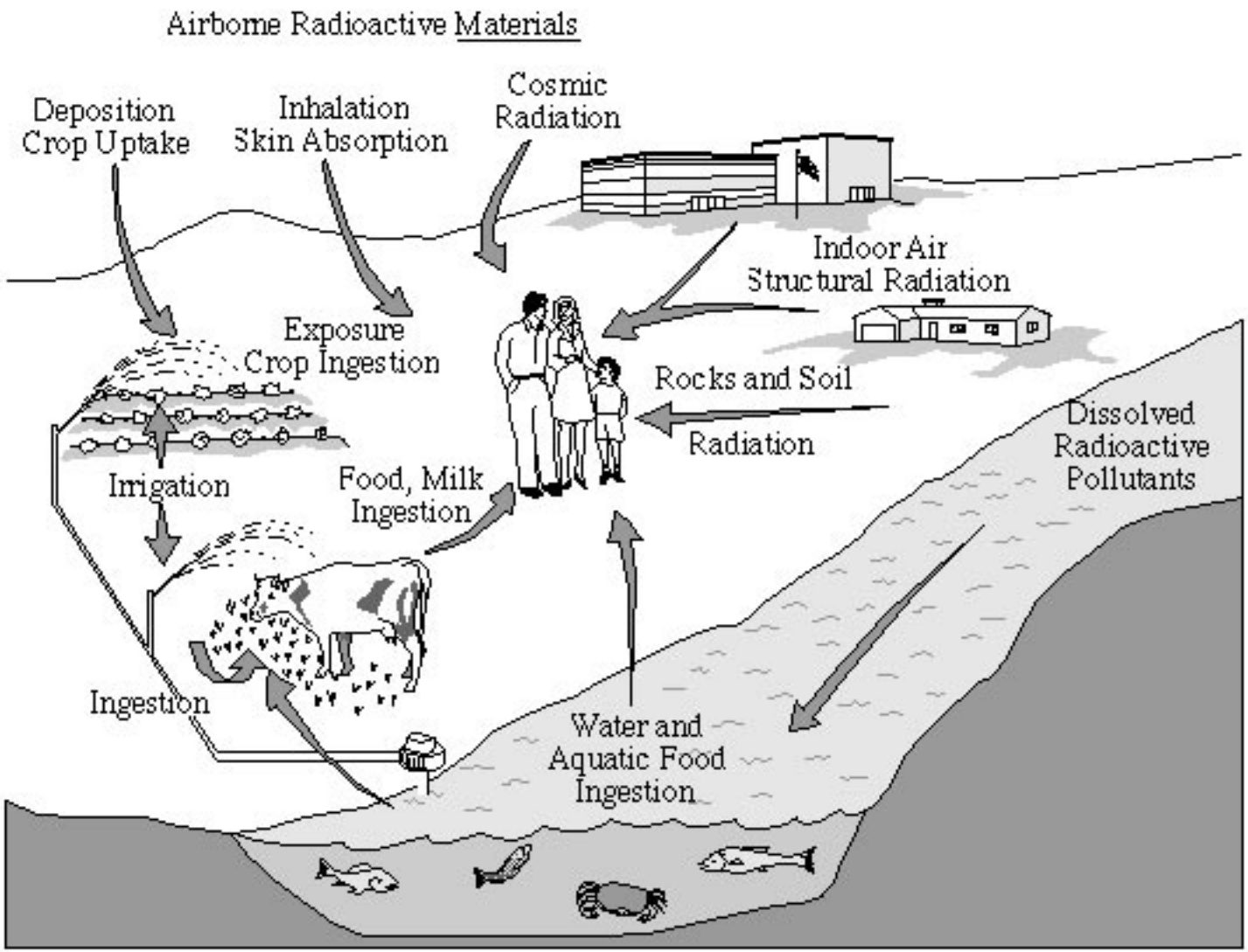Radiation Exposure Pathways