

PESTICIDES AND HUMAN HEALTH IN CALIFORNIA ESSAY

Free Essay: Agriculture is the most fundamental resource of society. Without it, humans could not live, especially in the ways we do now where people reside.

Over the years research has shown that pesticides can cause fatal diseases like cancer. Cytotoxic effects of insecticides [1]. As we settled down, we looked into the river only to find hundreds of frogs washed up to the shores by the high tide. Although these pesticides are generally less acutely immediately toxic than organophosphates or carbamates, since they persist in the environment and tend to accumulate in tissue as they pass up the food chain, they are extremely hazardous. Even farmers who are well aware of the harmful effects of pesticides are sometimes unable to translate this awareness into their practices [21 – 24]. Some of the dangerous chemicals in the river are lead, mercury, arsenic, cadmium, chromium, and pesticides. Also, optical sensors can be used for detection of anticholinesterases by immobilizing fluorescein isothiocyanate (FITC)-tagged acetylcholinesterase (AChE) on quartz fibers and monitoring enzyme activity [Rogers et al.]. Until the industrial revolution the vast majority of the human population was agriculturally based growing crops for their own consumption rather than for trade. The half-life of DDT in human adipose tissue is approximately 7 years. So, it is important to understand the magnitude, sources, and variability of dietary exposures to environmental contaminants experienced by members of the population, the precision of dietary exposure estimates possible from existing data, and the prospect of using dietary exposures in epidemiologic studies designed to characterize the human health effects of specific insecticides or classes of insecticides [Berry, 1998]. Such collective outbreaks may be defined as the effect, in an exposure incident, of a chemical or group of chemicals on a population in which several to many individuals are poisoned. Many states within the United States have installed a Clean Sweep program which provides for proper cleanup and disposal of these pesticides. Decisions taken by regulators have important economical consequences for the industry that manufactures pesticides, the farmers, the workers and the consumers. It is time that we find a new way to rid of pests. Pesticide mishandling such as transferring the products from their original packages into household containers and also the lack of compliance with instructions of the label can be also sources of exposure [42]. The possibility of measuring adducts in hemoglobin will enable an estimation of the dose of electrophiles closer to the target and to extrapolate dose more precisely across species [Lotti et al.]. Children have a higher respiratory rate and so inhale airborne pesticides at a faster rate than adults. Organochlorine pesticide residues and breakdown products are found in human breast milk worldwide, and also in soil and plant and animal tissue from the middle of the Pacific Ocean to the Arctic Circle. Genetically modified things can lead to all sorts of amazing new things that can benefit the earth and all living creatures on it. Liquids are prone to splashing and occasionally spillage, resulting in direct skin contact or indirect skin contact through clothing contamination. Our food producers are being split between actually wanting to help our food industry and wanting their share of money. Pesticide storage facilities should also be located away from homes and livestock facilities to avoid or minimize contamination in case of fire.