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all potential chemical exposures were combined. In fact, an increase in chemical uses was actually associated with a decreased incidence of breast cancer. Also, confounding factors such as smoking, previous residence, drinking, diet and family history were not taken into consideration.

"How is 2.4-D related to Agent Orange?

"Agent Orange was a mixture of 2,4-D and a second herbicide, 2,4,5-T. However, the chemicals used for Agent Orange, and their contaminant levels, were not the same as those commercially available at the time, or since. With the refined manufacturing processes that have been imposed by federal regulatory bodies over the years, contamination of 2.4-D with dioxin levels of concern is not expected.

"There is no indication of widespread neurological effects in the extensive 2,4-D toxicology data base.

[Back in the 90s, an interview I had with the maintenance supervisor of the plant in Elmira Ontario where Agent Orange was manufactured, proved very interesting! I'll try to make further mention of this in my next item on this

"Renu Gandhi, of Cornell University's Breast Cancer and Environmental Risk Factors program, recanted the position that 2,4-D is not known to cause cancer in a 2001 Fact Sheet entitled Pesticides and Breast Cancer Risk: An evaluation of 2,4-D.

"There is no indication that Gandhi recanted his position on 2,4-D and cancer in the 2001 update of his paper. As in 1998, Gandhi states, 'There are no reports that indicate a direct link between 2,4-D exposure and cancer in humans. While there is concern with respect to non-Hodgkin's lymphoma, 'results from different studies are not consistent. While one half of the studies indicated higher rates of non-Hodgkin's lymphoma among populations exposed to 2,4-D, the other half did not."

"Japanese researchers reported in 2005 that 2,4-D exerts both estrogenic and androgenic effects in rainbow trout. These effects may lead to health outcomes as diverse as precocious puberty, obesity and diabetes, and cancers.

"The concentrations used in the Japanese study are extremely high and not relevant to concentrations typically found in the environment. Based on present-day standards, no evidence for effects on the endocrine system were noted in the 2,4-D toxicology database.

"We should not trust industry-sponsored studies.

"All pesticide applicants are required to develop a comprehensive database of information that is critically assessed by the PMRA's scientists to determine if and under what conditions of use a pesticide will pose no harm to environmental and human health. The studies the applicants submit must be conducted in compliance with internationally accepted study protocols. Scientists and regulators design these protocols to produce scientifically valid data. Countries including Canada, the United States, European Union and other members of the Organization for Economic Cooperation and Development (OECD) have harmonized data requirements and study protocols. These studies are conducted by industry or in industry-contracted laboratories and they must be in compliance with good laboratory practice. This ensures in-depth documentation of study conduct and the results produced. Compliance with good laboratory practice gives regulators the ability to audit laboratories, data and study samples to ensure their reliability.

'The PMRA scientists can and do reject studies that are deemed to be deficient, that unjustifiably deviate from established study protocols or for scientific issues that affect the ability to interpret the data. The studies industry submits to the PMRA are generally of very high quality. In contrast to published scientific studies, which the PMRA also ex-amines, industry-sponsored studies often include raw data. This translates into thousands of pages of data for a given compound, which undergo thorough analyses and cross-checking between studies to ensure data consistency. As a result of the evaluation of data industry submitted to the PMRA, the PMRA can also request additional data to address concerns arising from the evaluation.

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