

Letters

Politics of overconsumption



The value of the otherwise useful editorial by Joanne Ikeda and Patricia Crawford in the January-March 2003 *California Agriculture* is undermined by its failure to dig into the institutional structures in our society that contribute to overeating and overweight. While properly identifying the problem and its two main causes — overconsumption and underexercising — the article avoids a discussion of the socio-economic and political factors contributing to overeating. The authors briefly cite the issue of serving size, but they don't get at the underlying dynamic, namely the strenuous activities of food corporations through advertising, public relations, and political activity to pack more food into us individually and collectively. These same corporations consistently resist regulation and lobby for increased deregulation.

William H. Friedland
Research Professor and Professor Emeritus
UC Santa Cruz

Pat Crawford and Joanne Ikeda (co-authors of the editorial "Californians face weight and health care crisis," California Agriculture 57(1):2) respond:

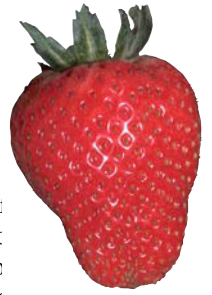
We regret that we had insufficient space in our editorial to fully discuss the pathogenesis of obesity. A comprehensive examination of the factors associated with energy intake must include institutional influences, one of which is the food industry, the corporations that grow, process and sell foods. The success of this industry depends on consumers consuming more. National food intake surveys show that Americans today are eating significantly more than they did in 1980. For example, an average woman today consumes nearly twice the calories needed (3800 kcal/day) while leading an increasingly sedentary lifestyle. It is not known to what degree the increase in intake is a result of changing varieties of foods, larger portion sizes, increased availability of foods, or aggressive food marketing and advertising campaigns. Dr. Friedland is correct that the lobbying of the food industry for less regulation can be at odds with the consumer's best interests. At the Center for Weight and Health, we are keenly interested in all factors influencing weight, including those of the family, the community and finally the larger society with its norms, laws, regulations and mass media influences.

WHAT DO YOU THINK? The editorial staff of *California Agriculture* welcomes your letters, comments and suggestions. Please write to us at calag@ucop.edu or 1111 Franklin St., 6th floor, Oakland, CA 94607. Include your full name and address. Letters may be edited for space and clarity.

Pesticide-free produce may contain more antioxidants

Berries and corn that are cultivated without pesticides contain a significantly greater amount to significantly reduce levels of:

"We have been successful in isoc that can use endosulfan as a carbon source," said William Frankenberger, director of the UCR Center for Technology Development and professor of soil science at Riverside. He added that microorganisms will rapidly degrade pollutants when they are able to use them as an energy and carbon source.



Endosulfan, an organochloride in the same family of pesticides as DDT and dieldrin, has a half-life of 9 months to 6 years. Because it lingers so long, it can enter the food chain and cause damage to the central nervous system, kidneys, liver, blood and parathyroid gland. It can also cause birth defects and genetic mutations. The pesticide is registered for use on 60 crops in the United States and is found in waters in 38 states.

Frankenberger's findings indicate that the microorganism strains could be added to contaminated soils, bodies of water, insecticide waste dumps, wastewater and stockpiles of endosulfan. His research found that one strain, *Fusarium ventricosum*, was able to degrade about 90% of 100 ppm endosulfan within 15 days. Another strain, *Pandora sp.*, degraded about 83% within 15 days.

The research was conducted at UC Riverside in 2001 and 2002 and published in the *Journal of Environmental Quality*.

Lake Tahoe clearest in a decade

Lake Tahoe's renowned blue waters were clearer last year than they've been in 10 years, UC Davis researchers said. The clarity of the lake is good news for scientists who have been trying to reduce Lake Tahoe pollutants for the past four decades.

"These are encouraging results, and we hope they indicate the beginning of the lake's recovery," said Charles Goldman, director and founder of the UC Davis Tahoe Research Group. "However, 10 years is a short time, and it is too early to say if the recent improvements will continue. We must keep up our efforts to prevent water and air pollution, or we may still end up with a green lake."

In 2002, a white disk lowered into the lake approximately once a week was visible down to an average of 78 feet. Those are the best results since 1992, when the average visibility depth was 78.3 feet. The lake still has a ways to go, however: In 1968, when researchers began measuring the clarity, the dinner-plate-size disk could be seen down to 102.4 feet.

Goldman noted that 2001 and 2002 received less rainfall than average, which reduced runoff and could have helped clarity. But efforts to improve the lake's clarity may have contributed. These include reducing the runoff of fine sediment, which makes the water cloudy; limiting nutrients such as fertilizers that promote algae growth, which makes the water green; and minimizing the air pollution that is deposited into the lake.

"Whether or not runoff was reduced by low precipitation or by improvement projects, or both, the lake may be showing that it can recover," Goldman said.



Judy Chappell

UC Riverside researchers Tariq Siddique, William Frankenberger and Ben Okeke with samples of isolated purified bacterial and fungal strains that decompose endosulfan.

West Nile vaccine for horses

UC Davis equine experts recommend that horses be vaccinated in March and April this year for West Nile virus. Horses should receive two doses three to four weeks apart from a licensed veterinarian before the mosquito season begins.

Horse owners are advised to consult with their veterinarians for the vaccination of individual horses. Pregnant mares and foals less than one year, for example, should receive modified treatments.

West Nile virus is much more deadly in horses than in humans — one out of three horses infected will die from it. Signs of infection in horses vary markedly but can include twitching or flaccidity of the lips, listlessness, stumbling and lack of coordination, leg weakness and a tendency to startle easily.

The experts also encourage ranchers to eliminate standing water around horses to reduce mosquito populations and to stable horses during active mosquito feeding times — dawn and dusk.

The vaccine, manufactured by Fort Dodge Animal Health, a division of Wyeth Laboratories, in Overland Park, Kan., is named West Nile — Innovator. It has received unconditional approval from the U.S. Department of Agriculture and is available only from licensed veterinarians.