

Tons of Toxic Chemicals Above

By Lester B. Lave and Gilbert S. Omenn

read. After two decades of major pollution-control efforts and hundreds of bilthe quantities of toxic chemicals being dumped into the atmosphere are measured dumps last year. in billions of pounds per year.

ported their inventories and omissions to the Environmental Protection Agency (EPA) under Title III of the Superfund Amendments and Reauthorization Act and emissions of these toxic chemicals.

community leaders, and concerned indi-"Chemco" plant is discharging 1,100 pounds of chemical Q? Will they react differently if the reported discharge is 500 kilograms? Should Chemco be closed?

At the national level, how should Congress and the EPA react to this number?

on land, and in waste dumps.

shock, Congress deserves praise for this attention and resources. "right to know" law. The process of put-BILLION Pounds of Tox- ting together these reports has led some assembling these reports and making them ic Chemicals Poured into companies to decide that they must do available to the public and government. • Air," recent headlines more to curtail discharges. Monsanto, for The agency is at work on a "risk-screening" example, has announced a goal of reducing guide" to help citizens decide which disoverall discharges by 90 percent before charges are of greatest concern. lions of dollars spent on reducing dis- 1993 - after discovering that its plants charges, people are shocked to learn that discharged 370 million pounds of these current standards, the regulations may not chemicals into the air, water, and waste be satisfactory, for at least three major dialogues among companies and local and

Despite the large amounts of dis-Twenty thousand facilities have re- charges, we expect that analyses based on air or water or do not directly address total the reports will reveal few cases where the discharges. The regulatory officials redischarge poses an immediate threat to (SARA) of 1986. The detailed reports give lead to exposure. Chemicals may be their own program's objectives. For examthe first comprehensive picture of the use diluted or transformed so that they are not harmful when people are exposed. All At the local level, how should mayors, modern economies produce large quantities of toxic materials that could leak, or viduals interpret a report that their local must be disposed of, into the environment.

Congress and EPA have been trying to balance the potential dangers of these discharges against the social benefit of having the use of the chemicals. Now business, government agencies, and concerned citizens have the data to examine the total Worse news will appear in a few weeks with discharges into their neighborhoods. Dis-

the reports on the total amounts of toxic ease and a despoiled environment are not chemicals being dumped into waterways, necessary prices for a high standard of living; these data and follow-up risk analy-Despite, or perhaps because of, the ses are needed to determine where to focus

The EPA has done an exemplary job in

Even for plants in full compliance with

1. Current laws regulate discharges into sponsible for each program have no auhealth. Not all 320 chemicals are equally thority over discharges into other media harmful, and release doesn't necessarily and often ignore them in order to attain EPA and other agencies to identify and ple, a common method of ridding ground water of organic chemicals is "air stripping," whereby volatile compounds are excharge of pollutants into the environment. pelled into the air. Air stripping makes ground water cleaner but does nothing to lower the amount of toxicants in the environment.

> 2. Various laws exempt government facilities, some of which are among the worst polluters. Toxic chemicals from government facilities are just as lethal as those from private-sector facilities!

3. Most legislation "grandfathers" existing facilities, allowing them to continue discharging large quantities of toxicants, in contrast to stringent standards for new facilities. Grandfathering encourages companies to keep the less productive, dirty facilities operating long after they were scheduled to be modernized.

An immediate, constructive response is needed to this report, as has occurred for some major chemical companies. "Chemical awareness and emergency response" programs have begun to open meaningful federal government regulators in many communities. Public participation, however, has been meager.

We urge President Bush, with the support of Congress, to resolve the problems in pollution-control policies and direct the reduce the risks to health and the environment. The US must choose and implement cost-effective ways to reduce the total dis-Our health, our ecosystem, and our economy depend on our success.

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