

Diamond Shamrock produced Agent Orange in this Newark, N.J., plant until 1968.

and the second s		Golfone bought by U.S.	Same	Pageontage of total U.S. production	Piper of closes in semple of left-over stock
Monsento		3,561,040	deire conquestion	27.7	7.62
Kercules		2,400,041		18.7	feetow 0.05
Diamond Shamrack		696.685	3.7	5.4	6,62-14.4
m		4,022,534		31.1	0.12-0.2
Unicoval		694,820	•	5.4	0.1-0.2
Lit. Agriculture		1.036.475		8.1	0.32-0.4
Thompson Chemical	700	333,685		2.5	417-01
Hoffman-Taff		22,440		*0.7	1W
Apgrasij		100,028		5.6	N/

SOURCE: U.S. Army

The company also sought to encourage the rest of the industry to "practice good citizenship" cleaning up its product. Chandler of Diamond Alkali

"It's (the lawsuit) already figured into the price of the (Diamond Shamrock) stock."

- industry analyst

wrote after the March 1965 conclave that "the purpose of the meeting was obviously designed to help us solve this problem before outsiders confuse the issue and cause us no end of grief." At the time, Dismond's 2,4,5-T pesticide sold by had the highest dioxin level - from 8 ppm to 24 ppm, Dow documents;

internal memos reveal that Dow was afraid herbicide customèrs would contract the chloracne, prompting further industry regulation. V.K. Rowe, toxicologist for Dow, wrote in a June 1965 letter to a Canadian company official that the dioxin in 2.4.5-T "is exceptionally toxic: It has a tremendous potential for producing chloracne and systemic injury."

He said that chloracne in customers should be avoided because "if this should occur, the whole 2,4,5-T industry will be hard hit,

and I would expect very restrictive legislation, either barring the material or putting very rigid controls on it. That is the main reason why we are so concerned that we given up our house from within."

But later that year, another 1000 official was concerned that the March warning had been ignored. -! An official at the Hercules Powder Co., another producer of Agent Orange, wrete in July 1965 that Dow was "extremely frightermed that this situation could exprode. They are aware that their compa tors are manufacturing 2,4,5-T With alarming amounts of (dioxin); and if the government learns of this, the whole industry will suffer.

Robert Taylor, a lawyer for the veterans, contends that should be held liable for its fallshi to turn in Diamond and other petitors is the 1960s when it that they were producing asoft Orange with high dioxin levels

A memorandum by the las for the veterans, quoting in the company records, says that the cember 1968 batches of Orange manufactured by Diamond contained more than 8 ppm. And a U.S. Army study of unused hor cide found that Diamond's Agent Orange had the highest dioxin level - from 8.62 to 14.4 ppm -1 product with the next highest dioxin level was in Monsanto's, with 7.62 ppm, followed by her cide manufactured by T.H. Agrical ture and Nutrition at 0.4 ppm.

Earlier this year, the federal government paid \$33 million to buy out the residents of Times Beach, Mo., where the spraying of waste oil from another former Agent? Orange plant had contaminated soil to a level of 1 ppm. The Centers for Disease Control in Atlanta considers exposures above 0.001 ppm potentially harmful.

Diamond bought the Newark plant in 1951, and by 1959, other manufacturers say, it was aware of the chloracne problem in workers. Chandler observed in his 1965 memo that Diamond chemists previously had identified dioxin as a potential chloracue cause.

Court papers show that Da-mond workers in Newark long Court papers show that were afflicted with chlorache, a skin dispase directly linked to dioxin exposure. A 1963 visit to the factory by Donald J. Birmingham and Marcus Key of the U.S. Public Health Service found that 40 of the 60 employees suffered from chloracne and that cases had been observed as early as 1951.

The pair wrote that the employees were rotated in their 1005 to avoid exposure to "hot spots" in which chemical vapors escaped.

Iris Blumenau, a nurse who accompanied Dr. Jacob Bleiberg on his weekly trips to treat the Newark workers, said: "I specifically remember Dr. Bleiberg saying to them, 'Why the hell do you keep doing this? This will kill you but they said, 'Jake, I can make twice as much here as at any other in. Bleiberg later published a paper identifying several cases of liver disease at the plant.

The conclusion was questioned: by a 1969 study that said that Diamond workers were not suffering from liver problems.