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Environmental Engineering ■ Air Pollution and Control

Determination of Effects of Designated Pollutants on Plant Species

Authors: [A. L. Granett](#); [O. C. Taylor](#); CALIFORNIA UNIV RIVERSIDE AIR POLLUTION RESEARCH CENTER

Abstract: The phytotoxic responses of selected plants to missile exhaust products were studied. The plants included but were not limited to ornamental, vegetable, and field crops found in the vicinity of Vandenberg Air Force Base and were grown in greenhouses equipped with evaporative coolers with activated charcoal air filters. The missile products investigated were hydrogen chloride and hydrogen fluoride gases and **aluminum oxide** aerosols, alone and in various combinations of toxicants. The gases were generated by the volatilization of acid liquids into a hot air stream and the aerosols were generated using nitrogen gas to carry the particles through a cylinder having a reservoir of particles. The gases were monitored in the exposure chambers by trapping and titrating known air samples. Most studies concentrated on HCl gas alone.

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