

concentration of particulates in the Windsor area were very significant. U.S. sources contribute the equivalent of at least the entire annual average particulate concentration loadings allowed under Ontario standards ( $60 \mu\text{g}/\text{m}^3$ ) for a large portion of the Windsor area. For some sections of the area, particulate pollution from the U.S. exceeds  $140 \mu\text{g}/\text{m}^3$ ."

The International Michigan-Ontario Air Board report for 1980 revealed that for much of the Detroit-Windsor area, the IJC objectives for total suspended particulates were still exceeded even though there has been significant decreases in ambient levels of average TSP values annually from 1971 to 1974 and again in 1980. From 1975 to 1979, there was no significant change in annual averages of TSP. There was a very appreciable decrease in particulate emissions in Wayne County, Michigan, during 1980, much of which was attributable to a slower economy. It is in this county that 90% of the particulate emissions in the Detroit-Windsor boundary area emanate.

The Ontario Ministry of the Environment annual reports on Ambient Air Quality in Windsor, Ontario, showed correlation between elevated levels of total suspended particulates and winds from the direction of heavily industrialized areas of Wayne County, Michigan. Munn (1974) reported the transport of suspended particulate matter from the Detroit-Windsor area northward across Lake St. Clair into the Sarnia, Ontario-Port Huron area, a distance of about 100 km.

(d) Hazardous Organics

The Joint Air Pollution Study of St. Clair-Detroit River areas for the International Joint Commission (January, 1971), reported benzo(a)pyrene [B(a)P] levels in total suspended particulate samples collected in the Port Huron, Windsor and Detroit areas during 1967 and 1968. These analyses were conducted because of the carcinogenicity of polycyclic hydrocarbons. The results showed elevated levels of B(a)P in parts of Windsor and Detroit. The Windsor levels are similar to those reported in cities that have steel mills. Since there are no steel mills in Windsor the suspected origin of the elevated B(a)P are the steel mills in Wayne County, Michigan.