Standards based on quantity of emissions

On September 15, 1965, the Department reported to the Motor Vehicle Pollution Control Board on the feasibility of exhaust standards effective in 1970 based on quantity of emissions. One approach was to apply a given degree of reduction to the average quantity of emissions from each class of vehicle. Under this scheme the 1970 concentration standards for Class A vehicles would be approximately the same as those recently adopted by the Federal Government. In order to meet the objective of rolling back the hydrocarbon emissions to the 1940 level, the standard for vehicles in classes B through F would be approximately 160 ppm.

approximately 160 ppm.

This analysis does not include oxides of nitrogen emissions from exhaust because the Federal Government has not established standards for these compounds. The concentrations of oxides of nitrogen in the exhaust from different classes of vehicles do not differ greatly. If a standard is established based on quantity emissions, the allowable concentration will be inversely proportional to exhaust flow rate. Class A vehicles with lower exhaust volumes. portional to exhaust flow rate. Class A vehicles, with lower exhaust volumes, would be permitted higher oxides of nitrogen concentration in their exhausts, while vehicles with large engines and high exhaust flow rates would be allowed

proportionately lower concentrations of exhaust nitrogen oxides.

TABLE III .- Motor vehicle emissions in Los Angeles under different standards

Yearend	Hydrocarbons, tons/day			Carbon monoxide, tons/day		
	California 1 standard	Federal 2 standard	Difference	California ¹ standard	Federal ² standard	Difference
1970, without evaporation control. 1975, without evaporation control. 1975, with evaporation control. 1980, without evaporation control. 1980, with evaporation control.	1,150	1, 730 1, 510 1, 510 1, 440 1, 440	40 150 350 290 700	9, 320 7, 110 5, 520	9, 620 8, 530 8, 250	300 1,420 2,730

Assuming emissions will comply with standards now adopted in California.
 Assuming no change in the present Federal standards.