

## INTERIM RESULTS

Well trained field teams in all areas of the research are now productively generating research data, but only limited data are currently in a form which permits reasonable preliminary evaluation. The information available has been analyzed and some of these preliminary results are being presented. Also, information developed on factors affecting fuel savings identified during the study are summarized. For a more complete review of the project and findings to date, the reader is directed to the complete report of interim results published as "Report II - Midterm Report - Preliminary Results and Analyses" - September 1977 (Ref. 1).

### VEHICLE SPEEDS

A series of traffic-behavior experiments were designed to develop data needed for modeling vehicle speeds as a function of roadway characteristics. Nine main experiments were designed, six for measuring the free speed of vehicles, two for measuring operating speed, and one for measuring acceleration using project test vehicles. Also, four satellite studies were defined. This group of experiments is summarized in Table 1.

Even though only one of the experiments (TB-2) has been completed at this time, it is possible to report partial results. The analysis represents only a portion of the total amount of data currently available. In addition, analysis of the impact of the speed-limit enforcement law has been performed.

#### Preliminary Analysis on TB-2

The purpose of this analysis was to develop a preliminary regression equation which would predict the free speeds on negative grades. The data were collected before the enforcement of the 80-km/h speed-limit law, and the radar meters were in view of the drivers. Because of the possible effects of the