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New Plan for Traffic Laws

It is Stops, Not Speeds, that Matter.

es of families. No one would speed travel. ot to specify, for example, that with which to support a

l yet, is it not just as illogical to per hour on an open country ructed view for a sufficient dison an open country highway on which we must deal. ich other vehicles, pedestrians or

ow large is a crowd? That de- driven at such speed that it may be upon where it is; fifty people stopped within fifteen fee-and all of crowd in a small room, this regardless of the rate at which the speedometer may say that the car was traveling.

It will be noted that I have made drive a car depends upon the stopping distance equal to one-half an the rate of travel. This of the distance between the car and n realized to a certain extent the place of the danger. This is not makers who have speci- only to give a "bridge builder's factor instances that speeds of safety" but also to provide for the thirty to thirty-five miles are inevitable lag which occurs during the le in the open country, and mental processes necessary to observe of fifteen, twenty and twenty- the danger and to apply the breaks. Experiment has proved that at least it such laws, at best, are only a two-fifths of a second is required to icial attempt to remedy the evil remove the foot from the accelerator kless driving. Speed in itself pedal and apply it to the brake. The more be a criterion of careless- danger may not be mentally translated ithout taking attendant con- as such for another second, and the ns into consideration, than can a action of the foot might not be inm "living wage" be made to ap- stantaneous and positive when a all sections of the country and driver is under the stress of high-

It is certainly not too much to assume, therefore, that two seconds may ether such family is large or elapse between the appearance of the or is to be raised in a rigorous danger and the effective functioning of where fuel and clothing are the brakes at the wheel. During these In consequence, during certain sumant items of expenditure or in two seconds a car driven at fifty miles nny south where such outlays an hour will have traveled practically one hundred and fifty feet before it arrestes for minor violations of the begins to slow down. Charts, which speed ordinance are most numerous. hat speeds in excess of thirty we see published frequently by a well On the other hand, in wet or freezing known brake-lining manufacturer, in- weather, when even speeds well under represent presumptive evidence dicate that two-wheel brakes, in good the allowable limit are most dangerarelessness, and not to take into condition should serve to bring a car ous, there are but few arrests or sumeration whether that road is to a dead stop within two hundred and mons for careless driving. or dry, whether the car is thirty-one feet when traveling at fifty pped with good or bad brakes and miles an hour. This distance, added ther the driver can obtain an un- to the one hundred and fifty already mentioned, amounts to nearly four hundred feet, which may be taken as What we really intend to do when the distance required to bring a car to acting speed laws is to insure that a stop under average conditions and between good and bad brakes, between driver will have the car under when traveling at fifty miles an hour. entrol at all times. Adequate con- Almost instantaneous brain and musof the car means the ability to cular functioning and the use of high- fails in its purpose of promoting maxiing the vehicle to a dead stop with- ly efficient brakes might cut this dis- mum safety of driving. If the cure a short distance of the danger line. tance in half under the best of condi- were impossible or were worse than example, a car may be considered tions. But the higher figure repre- the disease, we would have no critie driven with due care if it can sents the day-in and day-out average cism to make, but the remedy is so topped within four or five hundred of the majority of cars. It is this with simple and can take into considera-

The action of brakes is merely to obstruction can be seen at least absorb the momentum of a heavy movhousand feet ahead of the ing mass, as represented by the car. On the other hand, a car, traver- | Momentum, in a horizontal direction, a school street, on which depends upon two factors; weight and child might dert into the road- speed. For ordinary purposes mass thirty feet ahead, should be may be considered the same as weight.

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varies directly as the car's weight and as the square of the speed. The mathematical formula is:

I equals MV squared

which I equals the momentum, M equals the mass (or weight) of the car and V equals the speed.

Since it is momentum which tends to keep the car going and which must he sharhed by the brakes or other wise, before the car can be stopped, it will be seen that, given the same retarding effect, a car weighing four thousand pounds will require double the braking effect to be brought to a stop as that necessary for a car weighing but two thousand pounds.

By the same formula, we observe that if we double our speed, we in crease the stopping distance required, if we are traveling, for example, at nine times the distance in which to stop that would be necessary if we were traveling at only ten miles an

Now, although it is very evident from the above that speed exerts a tremendous influence on the effort required to stop a moving automobile, the factors of brake condition, driving ability and nature of the road surface are equally important. However, except insofar as some motor vehicle laws require periodic brake inspection, safety and care in driving are almost entirely translated, in the public mind and in the law, into miles per hour. There is no other reference to the really vital factor of "how quickly can the car be stopped."

Not only that, but, in order to avoid the possibility of unfair persecution of the automobilist, the laws of many that evidence must be to indicate that the motorist exceeded the speed limit for a sustained distance of one-eighth of a mile in the city or one-quarter of a one of the purposes of this provision is to enable the motorist to overtake a slow lumbering vehicle ahead of him by means of a short burst of speed which will keep him on the wrong side of the road for a minimum

The usual means for enforcing the speed laws is the "motorcycle con." The motorcycle is a two-wheel vehicle. As such it is not as steady on its legs as is its four-wheel prey. This means that during wet and snowy dangerous, the motorcycle enforcement officer must suspend activities. mer weather when driving is safest

Twenty-Five Miles-Twenty-Five Dollars.

Now a law which employs speed as smooth or non-skid tires, and between dry or wet or icy pavements, evidently tion so easily and automatically the various conditions which we have mentioned as affecting the safety of car operation, that we marvel that seventeen million cars are still governed in their activities by such antiquated laws as to permit, "Twentyfive miles an hour, Your Honor," Twenty-five dollars fine, Mr. Defendant," to be the stereotyped sound 'ssuing from thousands of court rooms.

So long as it is the inability to stop in time which is the cause of most accidents and the reason for all speed laws, let us go directly to the source of the trouble. Let us require that every car shall be driven only at such rate that it may be brought to a complete standstill within specified distances; these distances varying with country and city driving conditions much as do the variable speed rates now permitted. We would stipulate, for example, two hundred feet as the required stopping distance on an open country road; fifty feet in some sections of the city; even fifteen or twenty feet in the more congested portions. We could mark all school streets as "ten foot zones" indicating that on such streets the motorist must have his car under such control at all be much simpler and more effective

prescribed signal has been given. One of the principal values of such limit had been exceeded would be a system is that it would take into consideration, absolutely and automatically, all conditions then prevailing which would affect the stopping ability of the car or of the driver in quesrcise much greater care and would are drive, possibly, at only a quarter of the speed that would permit stoping within the same distance under good conditions on dry roads. The design and condition of the braking

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without danger of violating the stopping provision.

The operating machinery for such a method of speed regulation would times that it can be brought to an than that employed at present. Quibabsolute stop within ten feet after bling over the inspection and accuracy the danger has been noted or after a of speedometers and disputes as to the distance over which the speed-

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avoided. All that might be necessary fully within the meaning of the law. for proof of careless driving would be a tape line and possibly a piece of speed was ten or twenty miles an hour, chalk. No expensive motorcycles or whether he used chains or non-skid high-speed cars are needed, nor any tires or whether his car was provided highly trained body of "motorcycle with two or four-wheel brakes. Those cops." Every patrolman could produce the necessary evidence of careless He has passed the test. driving.

Suppose, for example, that a patrolman, roundsman or other ordinary police officer on foot is walking on what is known as a "twenty-foot street"—this meaning that any veicle driven on that street must be operated at such a speed that it can be brought to a dead stop within twenty feet. The pavement is wet, The what he considers to be a dangerous speed. He need only step to the curb, raise his hand and blow his whistle. If the motorist is able to bring his ear to a complete stop within twenty eet from the point at which the precribed signal was given, he has denstrated that he was driving care-

It is inconsequential whether his matters are entirely his own business.

DODDS

A Slide Convicts of Carelessness. If, on the other hand, when the motorist hears or sees the signal to stop

vious that he was driving "carelessly" in that his speed was too high, his tires too smooth or his brakes insufficiently effective to bring the car to we will have the eternal discussion a stop within the prescribed distance. Whatever the cause, he should suffer speed. There is but little room for

Such a system would not necessarily dispense entirely with the services of tire basis on which safety depends. the motorcycle enforcement officer. would, in fact, add to his efficiency in apprehending the careless driver. High-speed motorcycles may be used to overtake those who ignor the sign more, no motorist will dare de ately to break the speed law thr his present trust in the effective of his review mirror. As long as the motor ... dev can obtain a MINARD'S LINIMENT FOR THE

chased by a duly constituted officer with a properly inspected speedomeand applies his brakes, he finds that ter for a distance in some instance of at least one-quarter of a mile, many a driver who should be apprehended is never "caught in the act."

As long as we have automobiles, of what constitutes a safe driving argument, however, as to what constitutes a safe stopping distance. This stopping distance represents the en-

Why not adopt the plan of using this stopping distance, not a speed limit, as the sole method of judging the carelessness of car operation?

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