4. They tend to minimize the public antagonism toward police enforcement which results from obviously unreasonable regulations.

5. They encourage drivers to travel at the speed where the risk of accident involvement is the lowest.

WHAT UNREALISTIC SPEED LIMITS DO:
Unrealistic speed limits are also of public importance for the following reasons:
1. They do not invite voluntary compliance, since they do not reflect the behavior of the majority.
2. They make the behavior of the majority unlawful.
3. They maximize public antagonism toward the police, since the police are enforcing a “speed trap”.
4. They create a bad image for a community in the eyes of tourists.
5. They increase the potential for accidents along a roadway.

WHAT REALISTIC SPEED LIMITS DO:
Realistic speed limits are of public importance for a variety of reasons:
1. They invite public compliance by conforming to the behavior of the majority.
2. They give a clear reminder of reasonable and prudent speeds to non-conforming violators.
3. They offer an effective enforcement tool to the police.
Speed zoning is the establishment of reasonable and safe speed limits based on an engineering study. This summary tells what realistic speed limits will do, what they won’t do, and how they are established.

**WHY SPEED LIMITS?**

Since most citizens can be relied upon to behave in a reasonable manner as they go about their daily activities, many of our laws reflect observations of the way reasonable people behave under most circumstances. Generally speaking, traffic laws that reflect the behavior of the majority of motorists are found to be successful, while laws that arbitrarily restrict the majority of motorists encourage violations, lack public support, and usually fail to bring about desirable changes in driving behavior. This is especially true of speed zoning.

Speed zoning is based upon several fundamental concepts deeply rooted in our American system of government and law:

A. Driving behavior is an extension of social attitude, and the majority of drivers respond in a safe and reasonable manner as demonstrated by their consistently favorable driving records.

B. The normally careful and competent actions of a reasonable person should be considered legal.

C. Laws are established for the protection of the public and the regulation of unreasonable behavior on the part of individuals.

D. Laws cannot be effectively enforced without the consent and voluntary compliance of the public majority.

**COMMON MISCONCEPTIONS**

The public normally accepts the concepts noted in the previous section. However, the same public when emotionally aroused in a specific instance, will often reject these fundamentals and rely instead on more comfortable and widely held misconceptions, such as:

A. Reducing the speed limit will slow the speed of traffic.

B. Reducing speed limits will decrease the number of accidents and increase safety.

C. Raising the posted speed limit will cause an increase in the speed of traffic.

D. Any posted speed limit must be safer than an unposted speed limit, regardless of the traffic and roadway conditions prevailing.

E. Drivers will always go 5 m.p.h. over the posted speed limit.

Contrary to popular belief, speed in itself is not a major cause of accidents. In fact, accidents appear to depend less on absolute speed and more on the variation of speeds in the traffic stream.

**INTENT OF SPEED ZONING**

The basic intent of speed zoning is to identify a safe and reasonable limit for a given road section. The most widely accepted method is to set the limit at the speed which 85 percent of the drivers are traveling at or below. This reflects the safe speed as determined by a large majority of the drivers.

Research has shown that the 85th percentile speed is the speed where accident involvement is the lowest.

**HOW SPEED LIMITS ARE ESTABLISHED:**

Kansas Statutes, Section 8-1559 allows the establishment of speed limits on the State Highway System “upon the basis of an engineering and traffic investigation.” Speed zoning in Kansas is based on the widely accepted principle of setting speed limits as near as practicable to the speed at or below which 85 percent of the drivers are traveling. According to a Federal Highway Administration study, all states and most local agencies use the 85th percentile speed of free flowing traffic as the basic factor in establishing speed limits.

This speed is subject to revision based upon such factors as: crash experience, roadway geometries, parking, pedestrians, curves, adjacent development, and engineering judgment. This practice is in accordance with the Manual on Uniform Traffic Control Devices which has been adopted by the State of Kansas.

**HOW SPEED DATA IS COLLECTED**

Radar is used to collect speed data from random vehicles on a given roadway. Off peak hours are normally used in conducting a spot speed study with the speed of approximately 50 free flowing vehicles in each direction obtained. On low volume roads where it would be difficult to obtain a sample of 100 vehicles, the study may be terminated after a study period of one hour. Vehicles are selected at random from the free flow of the traffic stream to avoid bias in the results.