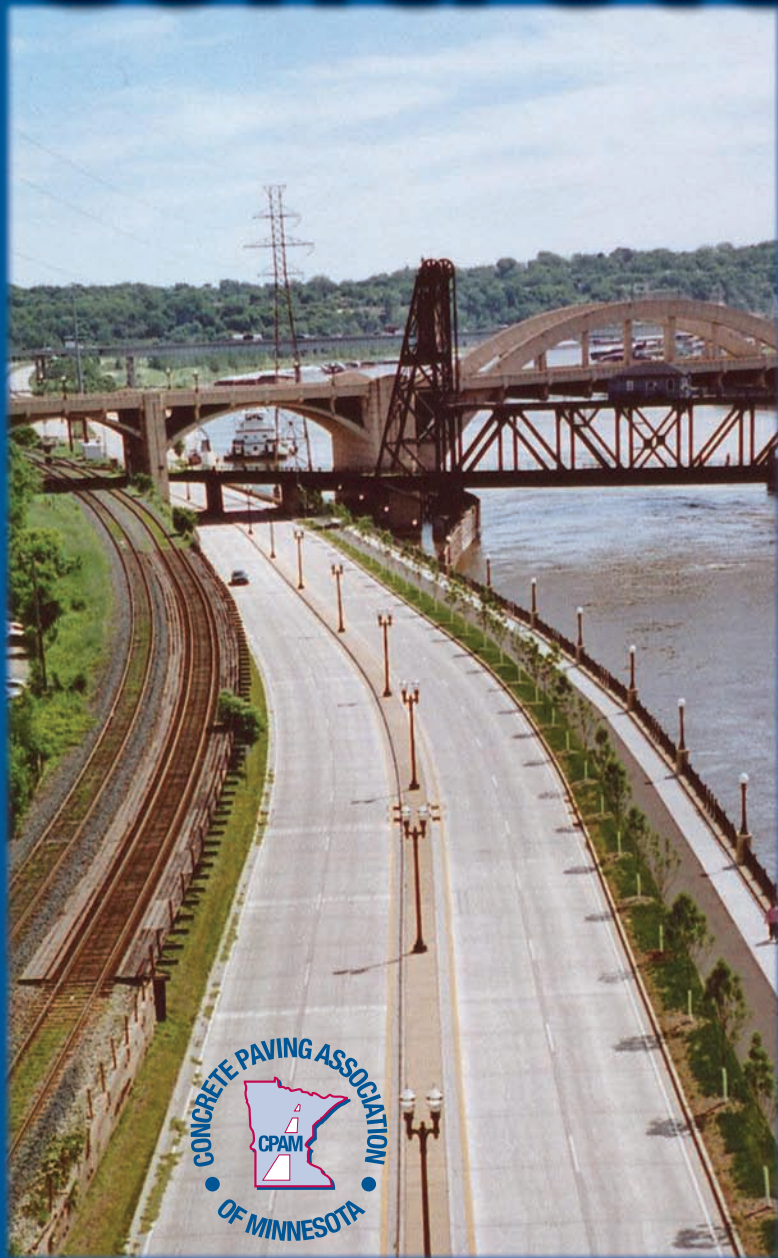


# Concrete

- paving the road to the future



# Concrete Paving Association of Minnesota

## Our Goals and Objectives are to:

- Provide assistance in design and planning of roads, streets and airfields.
- Encourage and promote the use of concrete in paving.
- Advance the use of concrete road materials by sharing research findings that show the advantages of concrete.
- Provide cooperation and aid to local, state and federal agencies to establish standards for highway, street and airfield construction.
- Maintain high standards of workmanship and product quality by concrete paving contractors.

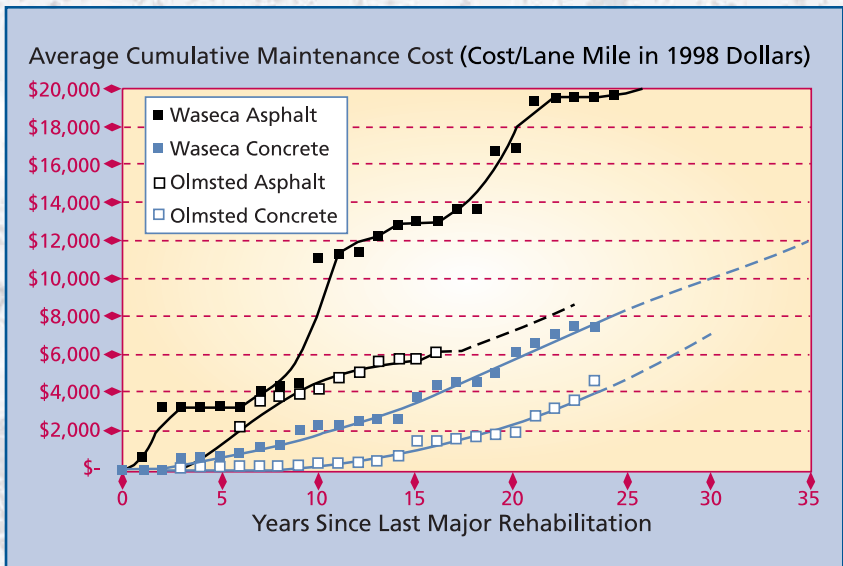


# Concrete Saves Money!

The University of Minnesota Department of Civil Engineering completed a study of actual costs of construction and maintaining concrete and asphalt county roads. Life cycle costs were performed for 28 highway sections in Olmsted County and for 35 highway sections in Waseca County. Here are the results:

- In 4 of 6 case studies: concrete was the lower cost alternative, even on lower volume highways.
- In 5 of 6 case studies: concrete was the most cost-efficient pavement type when the annual cost per vehicle carried was considered.
- Olmsted & Waseca Counties spend about 4 times as much money maintaining each mile of asphalt than to maintain their concrete pavements.

Concrete paving not only saves tax dollars, it helps eliminate potholes, perpetual repairs and their delays.



# Concrete is Safe and Quiet!



**C**oncrete pavements provide excellent traction in all weather situations, providing safer travel conditions.

**S**mooth concrete roads do not rut, nearly eliminating the chance for water buildup that can cause skidding and hydroplaning, making the pavement a safer driving surface.

**D**urable concrete pavements experience less deterioration than flexible pavements. Fewer potholes and lane closures from repair work mean fewer accidents, less congestion and lower user costs.

**H**ighly reflective concrete pavements offer better visibility for drivers in all situations and cut down on lighting costs for pavement owners, making our communities safer while saving additional taxpayer dollars.

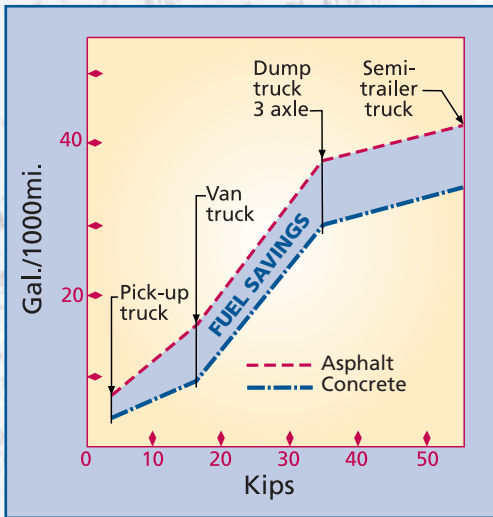
**M**ultiple research studies show that concrete pavements are just as quiet as asphalt. The noise level of concrete is well within industry and government noise standards.

**D**iamond grinding can reduce the noise generated by older concrete pavements along with providing a like-new smoothness.

**T**he long-lasting durability of concrete means less noise from potholes, maintenance work and lane closures.



# Concrete is Environmentally Friendly!



Long-lasting concrete pavements help eliminate the need to continually resurface badly worn roads reducing the habitual use of natural resources.

Innovative solutions, including supplementary cementitious materials and overlays, can create environmentally friendly pavements that serve communities for many generations.

Rigid concrete pavements experience less deformation than flexible pavements. This allows vehicles to roll smoothly over the driving surface, which conserves energy and reduces gas and oil consumption.

Better reflectivity makes concrete pavements cooler than asphalt, helping to reduce temperatures and save energy costs in other areas including street lights and air-conditioning.

The urban heat island effect is of major concern to city planners, who are looking for ways to make their communities cooler.

Concrete overlays can revitalize failing asphalt pavements, creating stronger, longer-lasting roads while protecting the environment. Sustainable design and construction practices embrace concrete as an environmentally friendly building material.

# Concrete Lasts Longer!



Concrete pavements can be designed for 20 to 60 years. Many achieve a service life of 50 years or more, far longer than the average service life of competing pavement materials.

The rigid nature of concrete pavement allows it to withstand heavy loads over long periods of time while maintaining a smooth, safe ride.

Durable pavements provide cost savings for repairs, maintenance, fuel and automobile wear and tear, potholes, perpetual repairs and their delays.



## Which Would You Choose?



# Concrete Paving Association of Minnesota

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