

















Interim Transportation Committee















Ronald A. Sines, P.E.





- Vice President CRH Americas
- Responsible for developing the strategy for CRH's multi-year sustainability and decarbonization program
- 23 years with CRH Americas
- Member of the National Asphalt Pavement Association & National Center for Asphalt Technology Boards of Directors
 - Committee for Asphalt Research and Technology (member and chair)
- NCHRP panel member on various asphalt mixture related research projects
- FHWARAP Expert Task Group member
- Worked for the New York State Department of Transportation's Materials
 Bureau for 15 years managing the asphalt materials program
- Bachelor of Civil Engineering degree from Youngstown State University.
- Registered Professional Engineer in New York





Building materials provider in North America



#1 Asphalt producer and paver in North America

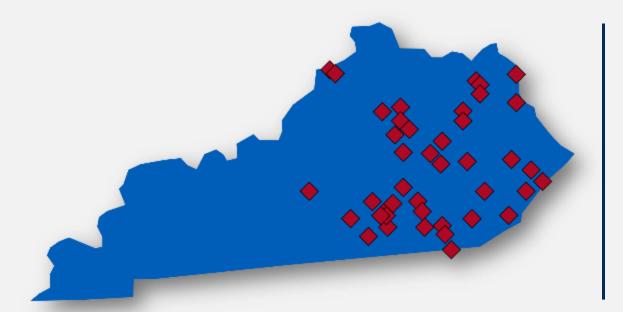
Recycler of pavement #1 materials in North America

26,821 Employees 1,592 Operating Locations

43 U.S. States 2 Canadian Provinces \$12.8bn Sales '22

CRH in Kentucky





700 Employees

45 Operating Locations







Reclaimed Asphalt Pavement



RAP is the most recycled material in the world!







Sustainability

• In 2021, more than 94.6 million tons of RAP were recycled in new asphalt pavements*



Cost Savings

- RAP is a valuable resource
- Don't have to:
 - Mine it
 - Refine it



Performance

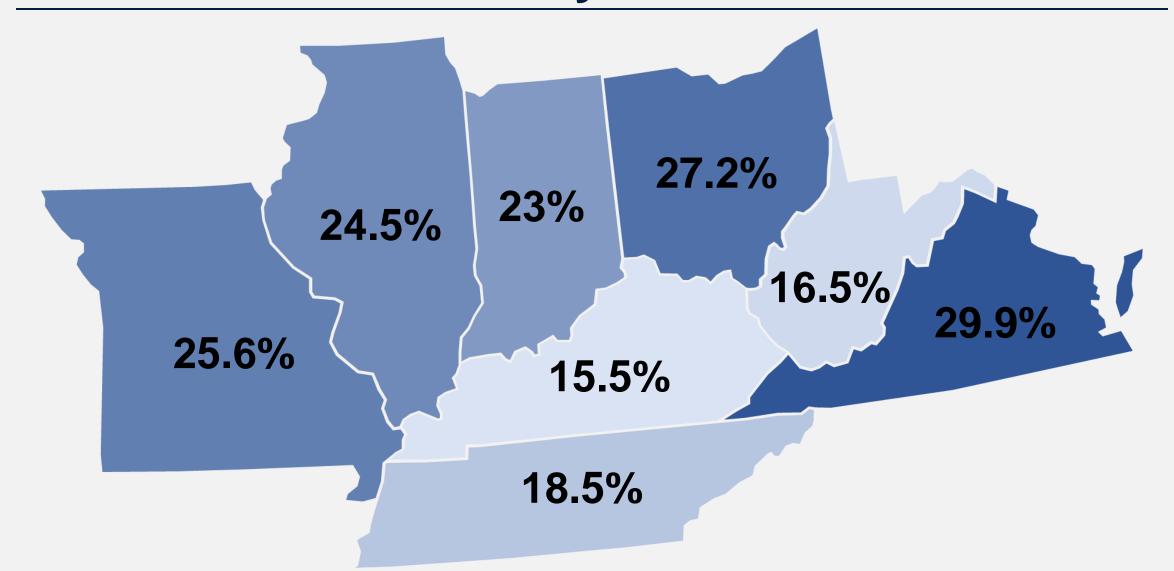
 Overlays with mixes containing 30% RAP perform just as well as virgin asphalt mixes**

^{*}Asphalt Pavement Industry Survey on Recycled Materials and Warm-Mix Asphalt Usage 2021

^{**}West, R., et al. Use of Data from Specific Pavement Studies Experiment 5 in the Long-Term Pavement Performance Program to Compare Virgin and Recycled Asphalt Pavements. Transportation Research Record: Journal of the Transportation Research Board, January 2011.

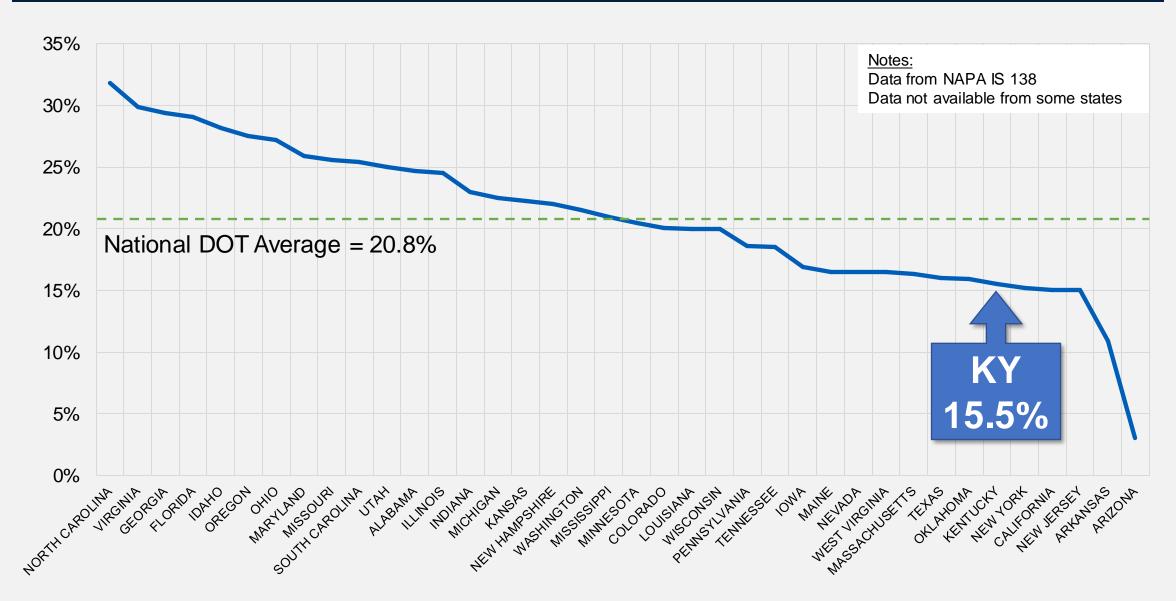
2021 RAP Utilization by State*







Average % RAP in DOT Asphalt Mixtures





Increasing RAP Usage in Kentucky

- Maximize the use of RAP in a responsible and effective manner to ensure quality and long-term pavement performance
- Allow the market to determine where RAP can best be utilized

