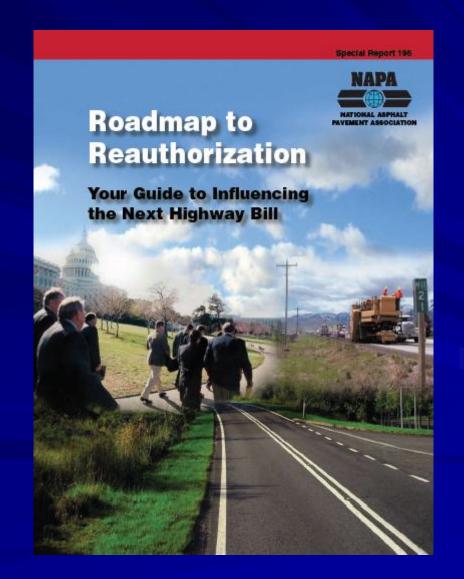
What's Hot In Hot-Mix Asphalt

Mike Acott NAPA President

Association of Modified Asphalt Producers
9th Annual Meeting
February 11-13, 2008



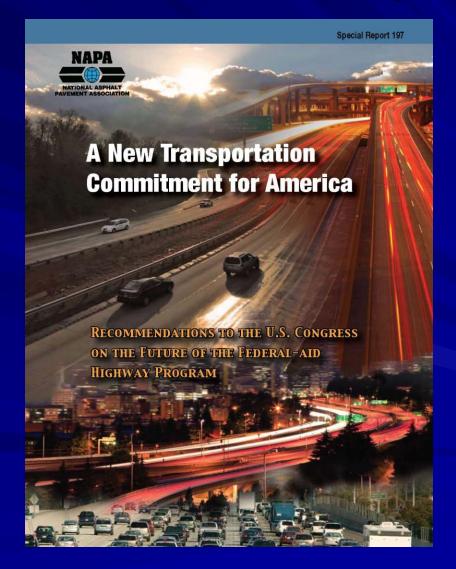
Reauthorization







NAPA White Paper





IARC Monograph — A High Stakes Ballgame!

- ■Cancer Classification Review Upcoming
- Exposure Risk Associated with Asphalt/Asphalt Fume
- Significant U.S. Regulatory, Activist, & Legal Implications



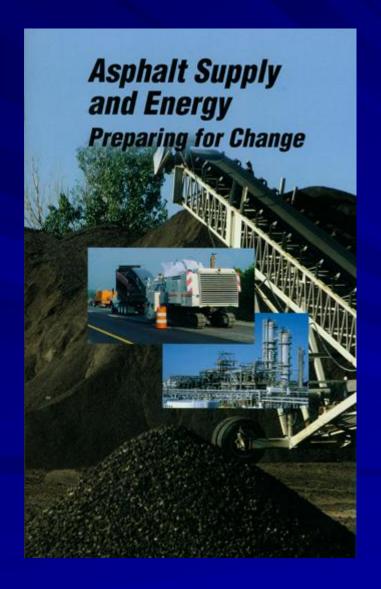


International Agency for Research on Cancer

Centre International de Recherche sur le Cancer



Asphalt & Energy





Quality Improvement Series 126



Energy Conservation in Hot-Mix Asphalt Production





Recycling

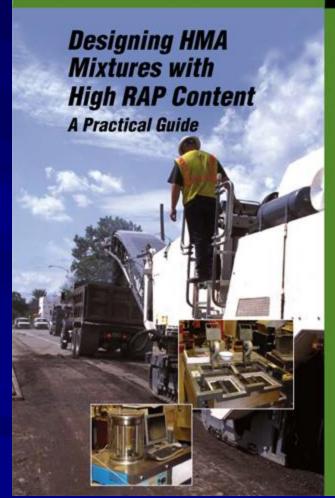
- Oil Embargo 1974
 - Gas prices skyrocket to
 - Gas lines
- Industry
 - Look to Recycling
 - Minnesota Heat Transfer
 - Mix Design Changes
 - Milling Machines
 - Today
 - Fractionate RAP
 - Greater RAP Content





Quality Improvement Series 124









U.S. Department of Transportation

Federal Highway Administration



Warm Mix Asphalt





Benefits of WMA

- Reduced odors
- Reduced Fuel
- Reduced Emissions
- Higher RAP
- Improved Working Conditions
- Cold Weather Paving
- Longer Haul Distances

WMA Goals

Use existing Hot Mix Asphalt plants

 To meet existing standards for Hot Mix Asphalt specifications

Must work with Superpave, SMA

• WMA quality = Hot Mix Asphalt quality

Quality Improvement Series 125







ASPHALT SUSTAINABILITY

- Porous pavements manage stormwater
- OGFCs mitigate UHI
- Asphalt accepts recycled goods / are recycled
 - Less energy to construct, low carbon footprint
- WMA lowers energy consumption & emissions
- RAP can <u>offset</u> the <u>entire</u> annual HMA plant GHG emissions





Heat Island Home Basic Information

Energy Savings

Heat, Health & Environment

Research

What Can Be Done
Community Actions
Cool Roofs
Green Roofs
Trees & Vegetation
Cool Pavements

Pilot Project (UHIPP)

Newsroom

Publication

Calenda

Related Link

Freque Walley Ins

Glos.

Heat Island Effect

Contact Us | Print Version

Search

EPA Home > Heat Island Effect > What Can Be Dor

Cool Pavements

Denotes ink to glassam defindion

There is no official standard or labeling plearly stage.

While studies show that pavements con several factors. These include the impletime; and the absorption by buildings of

There are that lower roadways

Investigation average in the control of the control

Other fact the best s help with s



- > material capacities
- > surface vs. air temperatures
- > pavement air voids (OGFC) cooler
- > UHI does NOT cause Global Warming











Synthetic and Colored Binders:





Competition

- Aggressive Competition Marketing Campaign
- Focus on Environmental Issues
- Negative Approach
- APA (Pete Grass)



Environmental Landscape

- Climate Change
- Tougher Ozone Standards
- Increased Activism
- Energy Concerns
- Political Change
- International Developments



Challenges & Opportunities

- Plant Zoning
- Asphalt & Energy
- Asbestos Regulation
- Ozone/PM 2.5/Ozone
- Urban Heat Island
- Stormwater
- Competition
- REACH
- IARC Monograph



Information Series 133



Bold Initiatives in the Asphalt Industry

To Safeguard Health, Safety, and the Environment

