

House LCCA Committee

March 28, 2012

Christie Barbee
Executive Director



Carolina Asphalt Pavement Association, Inc.

CAPA

- North Carolina's Road-builders
- CAPA formed in 1949
- Asphalt Producers and suppliers
- Many family-owned companies

Life Cycle Cost Analysis

- A useful tool for pavement selection
- Not the only basis for pavement selection
 - Constructability
 - Safety
 - Maintenance
 - Noise
 - Traffic
 - Adjacent pavement and structures
 - Materials availability
- Can be easily manipulated

Key components of LCCA

- Analysis Period
- Maintenance activities
- Discount Rate
- User Costs
- Salvage value (remaining service life)

“Hidden Costs”

- Noise walls
- Realignment of structures
- Temporary roads to re-direct traffic

Reclaimed Asphalt Pavement - RAP

- Number one recycled material in USA
- 79 million tons reclaimed material
- 99.1% re-used – kept out of landfills
- Average ton contains 25% RAP

Milling operation





Saves Natural Resources

- Use less virgin liquid asphalt
- Use less virgin stone

Saving Taxpayers Money

2011

- Over 11 million tons of asphalt pavement produced in North Carolina
- 20 -25% RAP average ton
- Saved NC taxpayers \$88 million

Reclaimed Asphalt Shingles - RAS

- Manufacturers' waste
- Post consumer (tear offs)
- Produces excellent pavements
- Can use RAP and RAS in same pavement





Warm Mix Asphalt

- Produced at lower temperatures – fuel savings at the plant
- Lower emissions
- Lengthens paving season
- Can be hauled further distances
- Excellent compaction

Use of Warm Mix Asphalt

- All 50 states have used WMA
- Used throughout Europe
- Texas has been the leader – more than 20 million tons since 2009
- NCDOT will use over 1 million tons in 2012
- Part of the FHWA Every Day Counts Initiative



capa

Carolina Asphalt Pavement Association, Inc.

North Carolina Rides on Us