

Concrete Pavement Industry Perspective

Executive Director

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Long History in North Carolina

Circa 1940



Still in Service and VERY
Minimum maintenance \$

Long History in North Carolina

Circa 1950

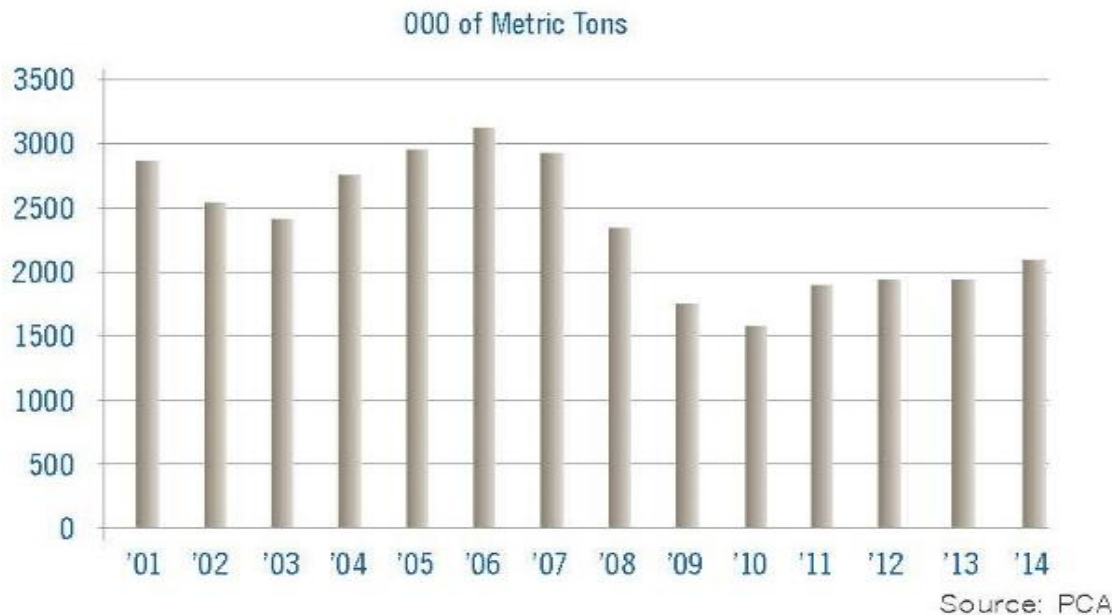


We DESIGN and
CONSTRUCT Pavements
differently today

North Carolina Cement Industry

Building the Foundation of North Carolina's Economy

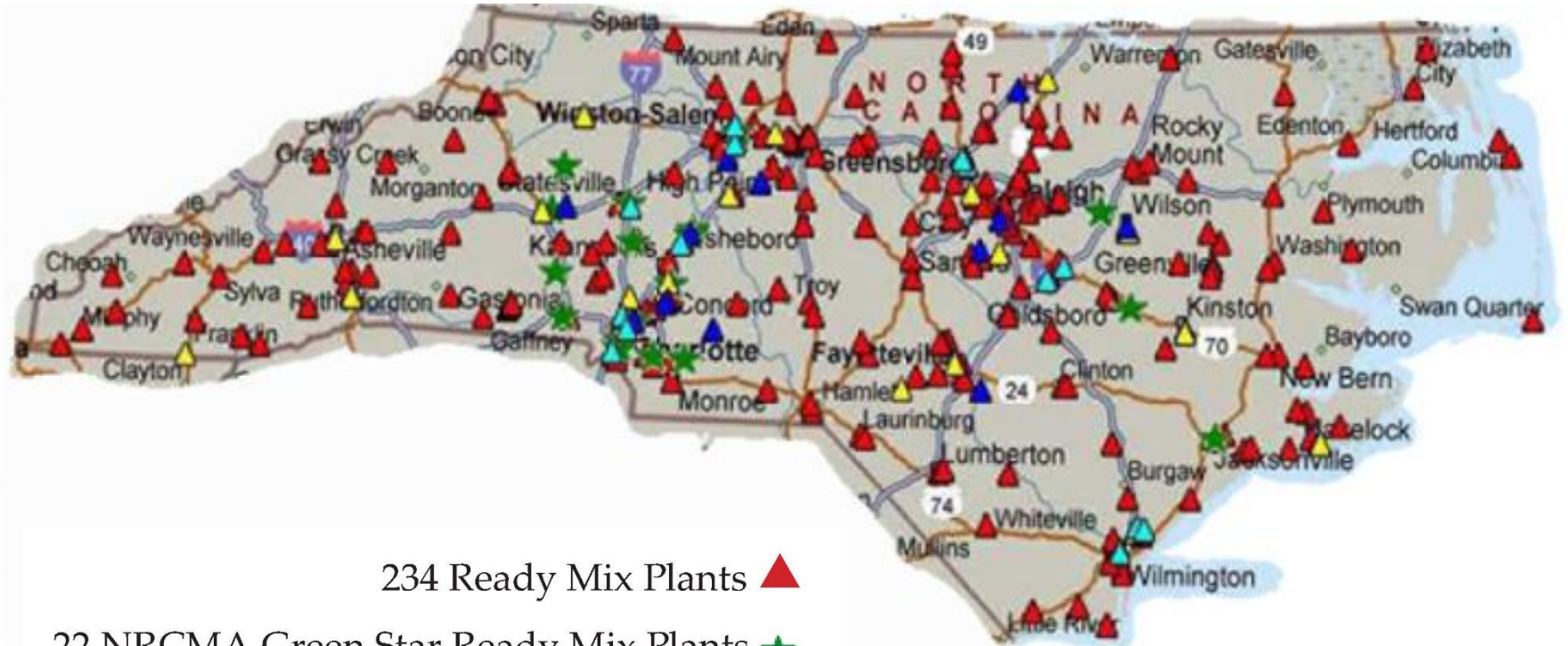
NC Cement Consumption



Economic Data

- Cement consumption: 2.1 million metric tons
- Cement & concrete-related employees: 16,155 with a payroll of \$614 million
- Cement & concrete-related contribution to state revenue: \$1.19 billion

North Carolina Concrete Industry



234 Ready Mix Plants ▲

22 NRCMA Green Star Ready Mix Plants ★

19 Block Plants ▲

5 Precast / 9 Concrete Pipe Plants ▲

15 Cement Terminals ▲

Bridge Projects



Elizabeth City Regional Airport Reconstruct Apron



Partnerships that Improve and Extend Pavement Life

- Design Guide/Specs for Streets & Local Roads

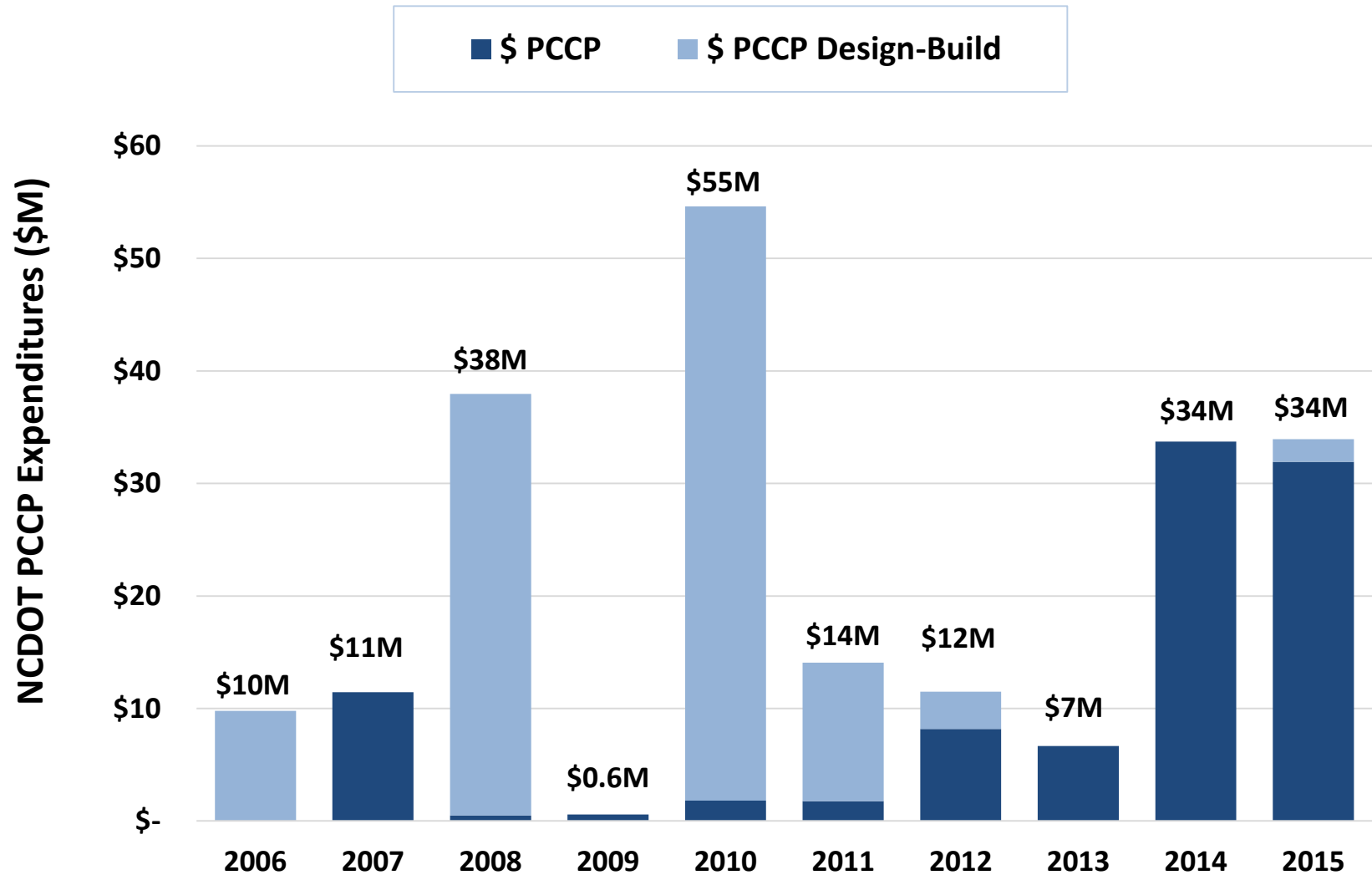


Concrete Roundabouts

Subdivision Streets



NCDOT Concrete Pavement Projects 2006-2015



Concrete Pavement Projects

Often Use LARGE Quantities of ASPHALT



- Asphalt Base Materials
 - Asphalt Shoulders
 - Asphalt Y-Lines

Concrete Pavement Excellence

Nationally Recognized Projects



Concrete Pavement Excellence

Nationally Recognized Projects



Concrete Pavement Excellence

Nationally Recognized Projects



Concrete Pavement Excellence

Nationally Recognized Projects



MIX of FIX Approach

- Funding optimization by using combinations of:
 - Longer Life Pavement Designs (30+ years)
 - Medium (15-30 years) & Shorter (5-15 years) Life
- Preservation Strategies for Concrete
 - Full-Depth Repairs, Joint Re-sealing, Dowel Bar Retrofitting, Diamond Grinding
- TWO Pavement Industries competing
 - Policies that cultivate “fair” competition.
 - Healthy competition is Good!

What Needs Improved?

Work in Progress...

- Incorporating (new) LCCA Policy into ADAB
 - ADAB = Alternate Designs, Alternate Bids
 - Following FHWA TA Guidance
 - Proper selection of candidate projects
 - Eliminates price escalators
 - Includes Bid Adjustments that recognize the timings & rehabs differences of 2 paving materials.

Partnerships that Improve and Extend Pavement Life

- Rigid Pavement Committee
 - Specification Subcommittee Meetings
 - Incorporation of more fly ash into paving mixes
- Training & Technology Transfer
 - Division Concrete Tours
 - Semi-Annual Workshop

PCCP Training



Partnerships that Improve and Extend Pavement Life

- Interest in (newer) technologies
 - Geotextile Fabrics (Replaces PADL)
 - Saves Time and Money



Partnerships that Improve and Extend Pavement Life

- Interest in (newer) technologies
 - Roller Compacted Concrete (RCC)
 - Durable and Cost-Effective



Norfolk-Southern Intermodal Charlotte Douglas Int'l Airport



Partnerships that Improve and Extend Pavement Life

- Interest in (newer) technologies
 - Concrete Overlays of Asphalt (Whitetopping)
 - Durable and Cost-Effective





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