

**Carolina Asphalt Pavement Association
NC House Select Committee on STI
NC General Assembly**



February 22, 2016

Items Requested to be Covered

- Who is CAPA?
- Needs for Industry to Grow and Sustain
- Process Improvement
 - NCDOT Relationship
 - Project Implementation
- Keeping Pace with Technology and Innovation
- NC General Assembly and Industry Success

Who is CAPA?

- Formed by asphalt plant owners in 1949, **Carolina Asphalt Pavement Association (CAPA)** is a trade association representing the Asphalt Pavement Industry in North Carolina.
- Member firms of CAPA produce and place the majority of asphalt pavements in North Carolina.
- The purpose of the Association is to promote the use of quality asphalt pavement and to provide members with the services that enable them to excel in the Asphalt Pavement Industry.



NC Asphalt Plants

- Stationary plants are located in all areas of NC.
- Many companies have been in the same location for generations and are NC family owned businesses.
- Asphalt producers provide jobs for a large number of citizens in their communities.
- **The asphalt pavement industry in North Carolina consists of North Carolina citizens building and maintaining North Carolina Roads.**





NC PRIMARY ROUTES

LEGEND

INTERSTATE HIGHWAYS

US HIGHWAYS

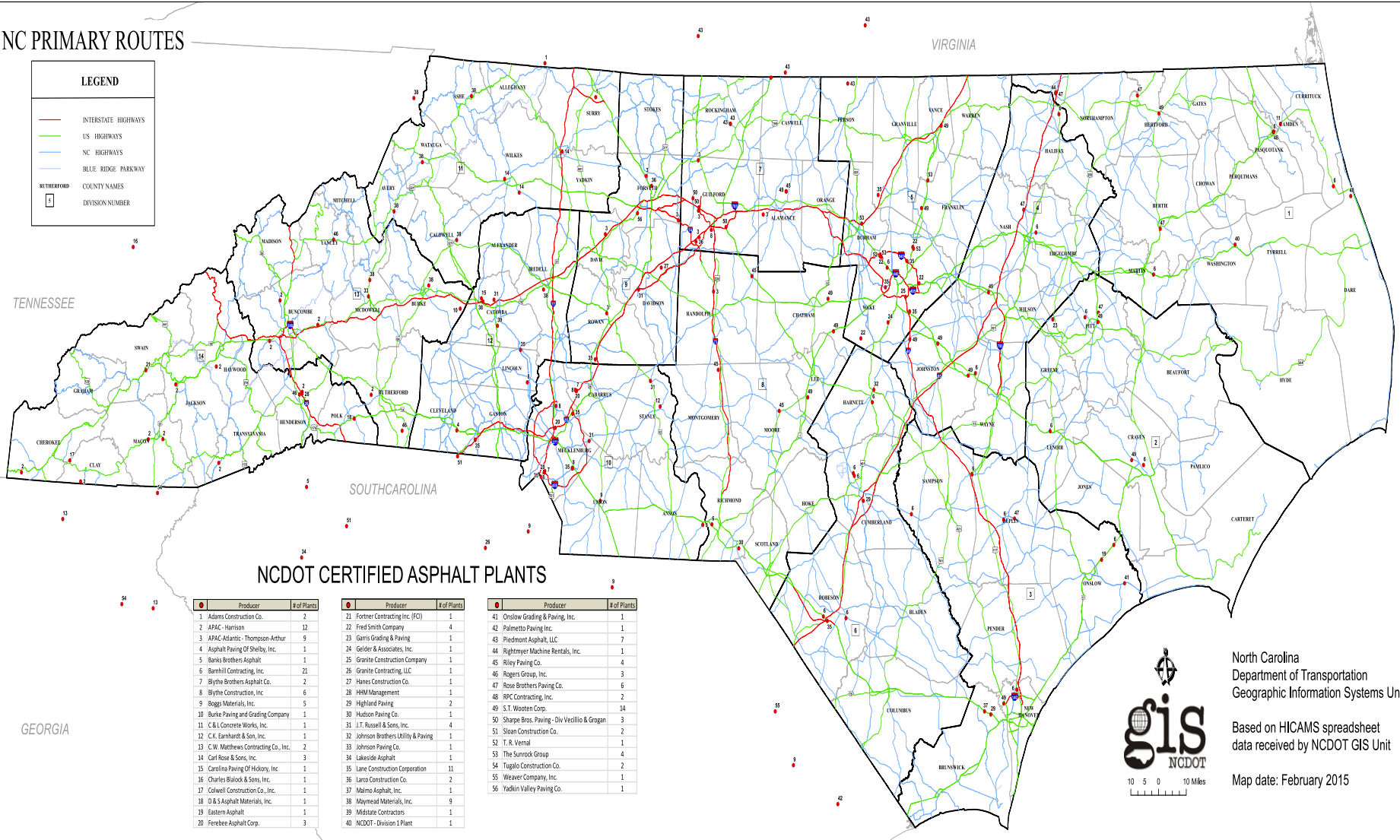
NC HIGHWAYS

BLUE RIDGE PARKWAY

BUTHERFORD

COUNTY NAMES

DIVISION NUMBER



NCDOT CERTIFIED ASPHALT PLANTS

	Producer	# of Plants
1	Adams Construction Co.	2
2	AFAC - Harrison	12
3	ATAC-Atlanta - Thompson-Arthur	9
4	Asphalt Paving Of Shelby, Inc.	1
5	Banks Brothers Asphalt	1
6	Barhill Contracting, Inc.	21
7	Blythe Brothers Asphalt Co.	2
8	Blythe Construction, Inc.	6
9	Boggs Materials, Inc.	5
10	Burke Paving and Grading Company	1
11	C & L Concrete Works, Inc.	1
12	C.K. Earhardt & Son, Inc.	1
13	C.W. Matthews Contracting Co., Inc.	2
14	Carl Rose & Sons, Inc.	3
15	Carolina Paving Off Hickory, Inc.	1
16	Charles Blalock & Sons, Inc.	1
17	Colwell Construction Co., Inc.	1
18	D & S Asphalt Materials, Inc.	1
19	Eastern Asphalt	1
20	Fennbee Asphalt Corp.	3

	Producer	# of Plants
21	Fortner Contracting Inc. (FCI)	1
22	Fred Smith Company	4
23	Gains Grading & Paving, Inc.	1
24	Gelder & Associates, Inc.	1
25	Granite Construction Company	1
26	Granite Contracting, LLC	1
27	Hanes Construction Co.	1
28	HMM Management	1
29	Highland Paving	2
30	Hudson Paving Co.	3
31	J.T. Russell & Sons, Inc.	4
32	Johnson Brothers Utility & Paving	1
33	Johnson Paving Co.	1
34	Lakeside Asphalt	1
35	Lane Construction Corporation	11
36	Larso Construction Co.	2
37	Malmoe Asphalt, Inc.	1
38	Maymead Materials, Inc.	9
39	Midstate Contractors	1
40	NCDOT - Division 1 Plant	1

	Producer	# of Plants
41	Onslow Grading & Paving, Inc.	1
42	Palmetto Paving Inc.	1
43	Piedmont Asphalt, LLC	7
44	Rightmeyer Machine Rentals, Inc.	1
45	Riley Paving Co.	4
46	Rogers Group, Inc.	3
47	Rose Brothers Paving Co.	6
48	RPC Contracting, Inc.	2
49	S.T. Wooten Corp.	14
50	Shupe Bros. Paving - Div Vecellio & Grogan	3
51	Sloan Construction Co.	2
52	T.R. Vernal	1
53	The Sunrock Group	4
54	Tugalo Construction Co.	2
55	Weaver Company, Inc.	1
56	Yadkin Valley Paving Co.	1



North Carolina
Department of Transportation
Geographic Information Systems Unit

Based on HICAMS spreadsheet
data received by NCDOT GIS Unit

Map date: February 2015

CAPA Team

- CAPA Member and Associate Member Firms
- Directory - [CAPA DIRECTORY](#)
- Ellis Powell, PE – Executive Director
- Jennifer Cook – Office Manager
- Ken Melton and Associates



Industry - Grow and Sustain

Strong and Consistent Funding for Roads

- No Spikes and Valleys in Funding
 - Causes significant changes in the work program
 - Hiring spikes and valleys can cause layoffs, drive up costs and put companies out of business.
- Need Steady Consistent Lettings with Ample Contract Time
- Managed Growth as Company Workload Increases

Funding Increases Asphalt Related Projects

Spikes are Good Without Valleys

(This will sustain and increase jobs)

- STI
 - 16% increase in year 1
 - 17% increase in year 2
- Resurfacing
 - 16% increase year 1
 - 21% increase year 2
- Preservation
 - 54% increase in year 1
 - 23% increase in year 2
- Bridges, Patching and SR Maintenance

Process Improvement: NCDOT Relationship; Project Implementation

Process Improvement

NCDOT Relationship

- CAPA/NCDOT, System of Continual Process Improvement.
- Joint Committees with NCDOT to address improvement.
- Specifications, Training Committee, Technical Committee and Contract Administration Committee
- Joint Workshops every year prior to paving season to train and calibrate (discuss the good, the bad and the new).

Process Improvement

CAPA/NCDOT Examples

- Temperature requirements - Efficiency
- Notch Wedge Device – Efficiency, Safety
- Lower Gyration – Improved Durability
- OGFC - Safety
- Elimination of Unnecessary Testing – Cost
- NCDOT Asphalt Summits in each Division in February and March – Efficiency, Training
- Optimizing RAP and RAS – Quality, Cost, Recycle

Project Implementation

Contract Time and Letting Schedule

- Max. Contract Time for **Resurfacing & AST**
- **Entire season** to complete the program
- Allows Contractor to **bid more aggressively**
- Allows Contractor to **manage growth** of workforce
- Allows for more **competition/best prices**
- Paving season is April to December – no **short fuse projects** at beginning and end of season

Keeping Pace with Technology and Innovation

Keeping Pace with Innovation

- National Asphalt Pavement Association
- National Center for Asphalt Technology
- Asphalt Institute
- AASHTO, SASHTO, World of Asphalt, SEAUPG, and other technical training and trade shows.
- Tinkering

Keeping Pace with Innovation

New Technologies

- Asphalt Evolution - Marshall, Super Pave, NC - best mixes in USA, Ongoing Process to improve and economize
- Asphalt – most recycled product in USA according to EPA, (RAP)
- RAP is in most mixes today
- RAS – Recycled Asphalt Shingle use has increased
- Paving Fabric use is increasing
- Equipment improvements are continually being investigated
- Drones - project exploration and measurement
- Warm Mix
- Porous Asphalt







Keeping Pace With Innovation

- Plant Modernization
 - Controls, Drum, Lab Equipment
 - [Asphalt Plant Videos](#)
- Placement Modernization
 - Mix types, monitoring process, automated controls, gps on pavers and rollers, etc.
 - [GPS and Equipment](#)
- Mix Innovation
 - Asphalt Additives for compaction and durability.
 - Asphalt Additives for blending

NC General Assembly

Industry Success

Industry Sustain and Prosper

- Continued significant funding for roads and bridges
- Steady funding, no spikes and valleys
- Continue to work on improvement and efficiency;
- Continue to involve industry in discussions that can impact business
- Please contact us if you think we can assist in any way.

Assistance, Questions, Suggestions

- Contact CAPA
 - Email Ellis Powell epowell@carolinaasphalt.org
 - 919-838-8004 office
 - 919-524-2395 mobile
 - Email Jennifer Cook jcook@carolinaasphalt.org
 - 919-838-8004 office
 - Email Ken Melton ken@kenmeltonandassoc.com
 - 919-271-5723 mobile

Thank You For The Opportunity!

