

The Year in Asphalt

Jim Musselman

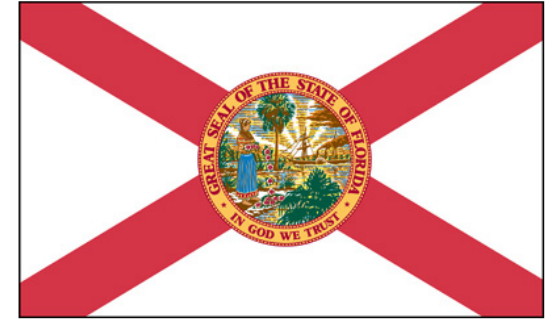
State Asphalt Materials Engineer

2025 FLORIDA ASPHALT
EXPO & CONFERENCE

NEXT MILE * NEXT LEVEL



State of Florida Facts and Figures



- Current population: 23.8 million
- Admitted as the 27th state of the U.S. – March 3, 1845
 - First Governor: William Dunn *Moseley* (June 25, 1845)
- Florida originally had two capitals under British occupation
 - East Florida: St. Augustine; West Florida: Pensacola
- First roads in Florida:
 - El Camino Real – Connected St. Augustine to northern missions 1680s
 - First graded road: King's Road – St. Augustine to Georgia 1765
 - Used limestone, limerock, and pine
 - First Federal Highway – Bellamy Road – St. Augustine to Pensacola - 1826



Roadway System in Florida

- Total roadway network:
 - Over 275,000 lane miles of roads in Florida
 - ~78,000 centerline miles
 - Includes State Highway System, County Road System, and Local Roads
- State Highway System – Over 46,000 lane miles
 - Roads under the jurisdiction & maintained by FDOT
 - Includes: Interstate Highways, US Highways, State Roads and Toll Roads/Expressways



State Highway System



Standard route markers in Florida



State Highway System

- 46,031 lane miles
 - 8,861 Interstate lane miles (19.3%)
 - 34,588 Arterial lane miles (75.1%)
 - 2,582 Turnpike lane miles (5.6%)
- 43,888 lane miles of asphalt
 - 97.5% of pavements
- 2,143 lane miles of concrete
 - 2.5% of pavements



Pavement Surfaces

- 50.5% of asphalt surfaces are dense-graded (22,169 lane miles)
- 49.5% of asphalt surfaces are open-graded (21,719 lane miles)



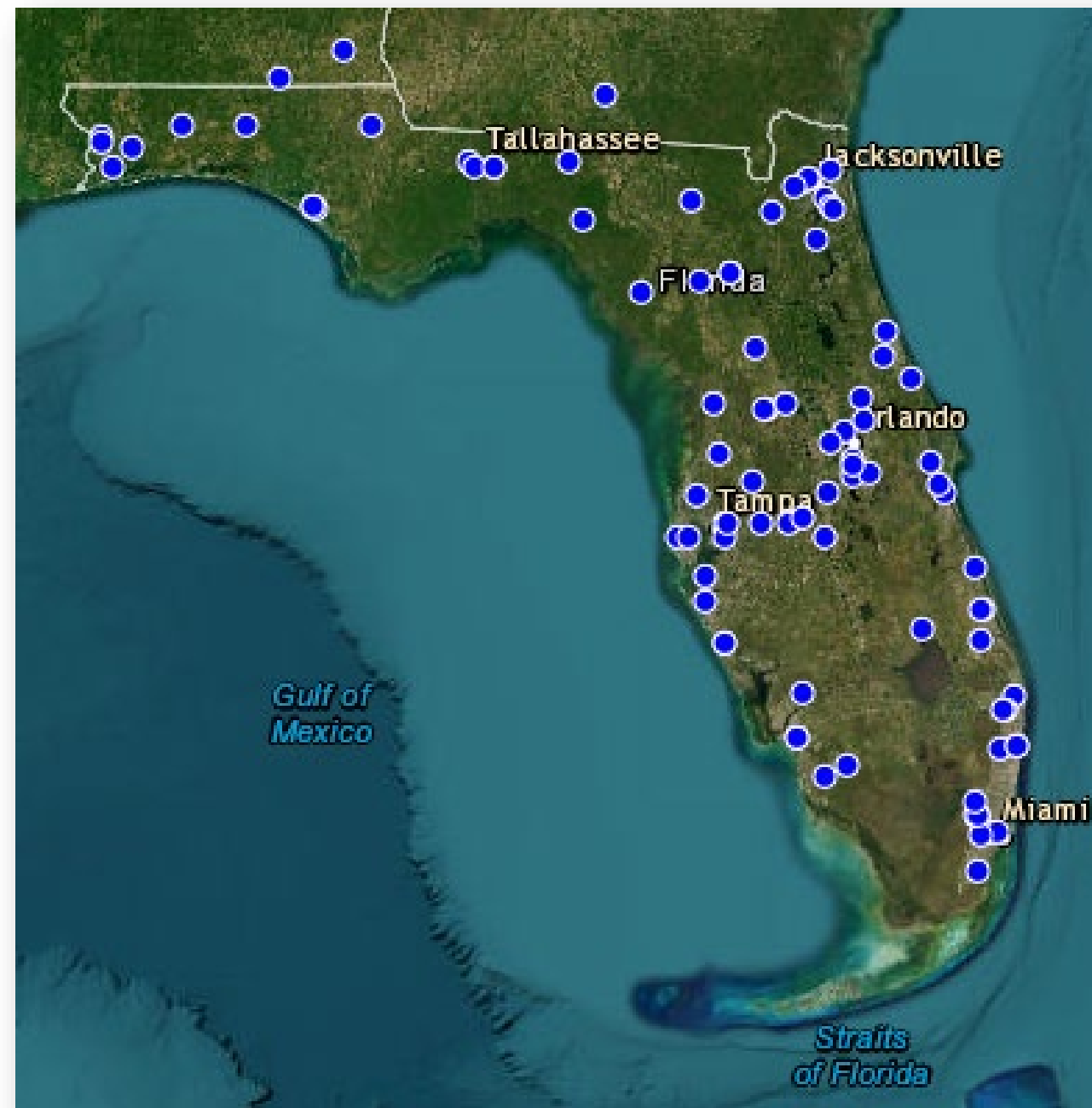
Asphalt Producers for FDOT

	In-State	Out-of-State
Asphalt Plants	96 (82)	3
Asphalt Contractors	33	3
Asphalt Binder Terminals	16	13
Asphalt Emulsion Terminals	10	9

Number in () represents plants that produced mix for FDOT in 24/25



Approved Asphalt Plants



Approved Asphalt Binder Terminals

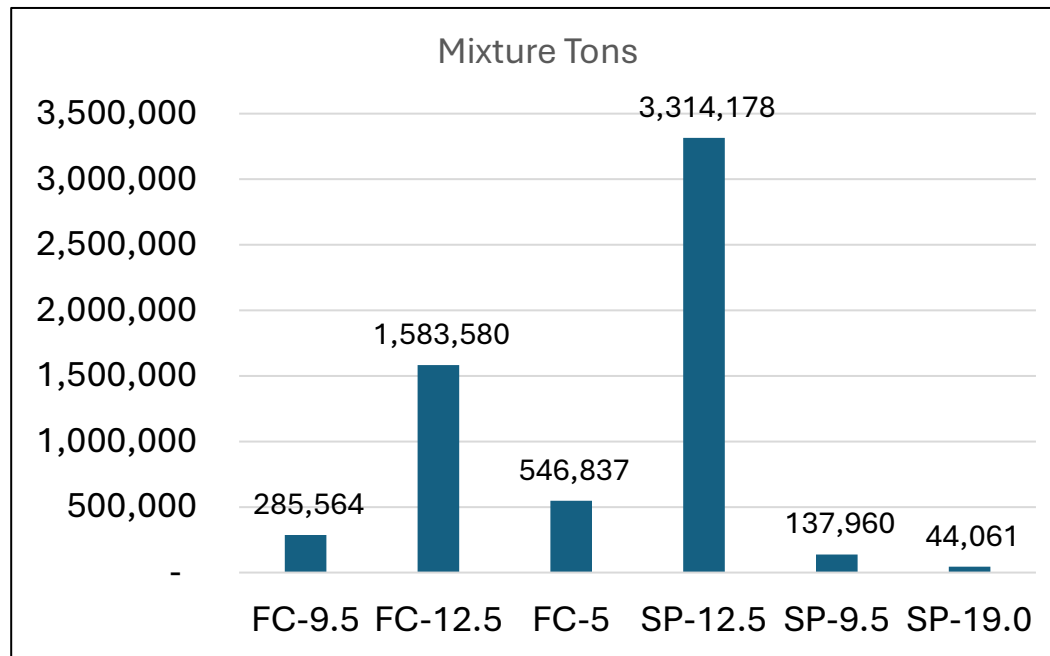


Approved Asphalt Emulsion Terminals



FDOT Asphalt Mixture Tonnages (24/25)

Friction			Structural			Total
FC-9.5	FC-12.5	FC-5	SP-9.5	SP-12.5	SP-19.0	5,912,180
285,564	1,583,580	546,837	137,960	3,314,178	44,061	



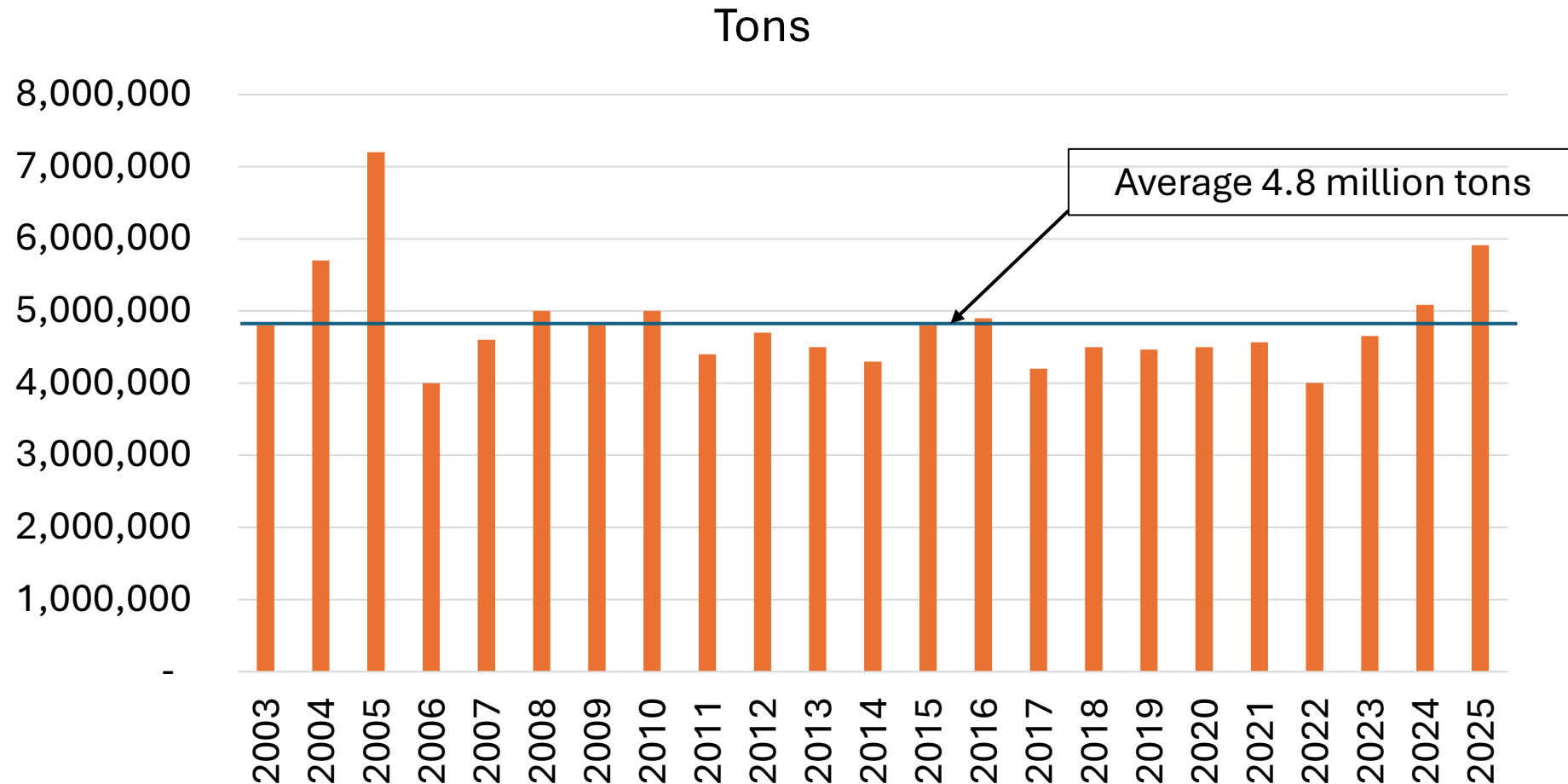
Structural Mixes: 3,496,199 tons

Friction Mixes: 2,415,981 tons

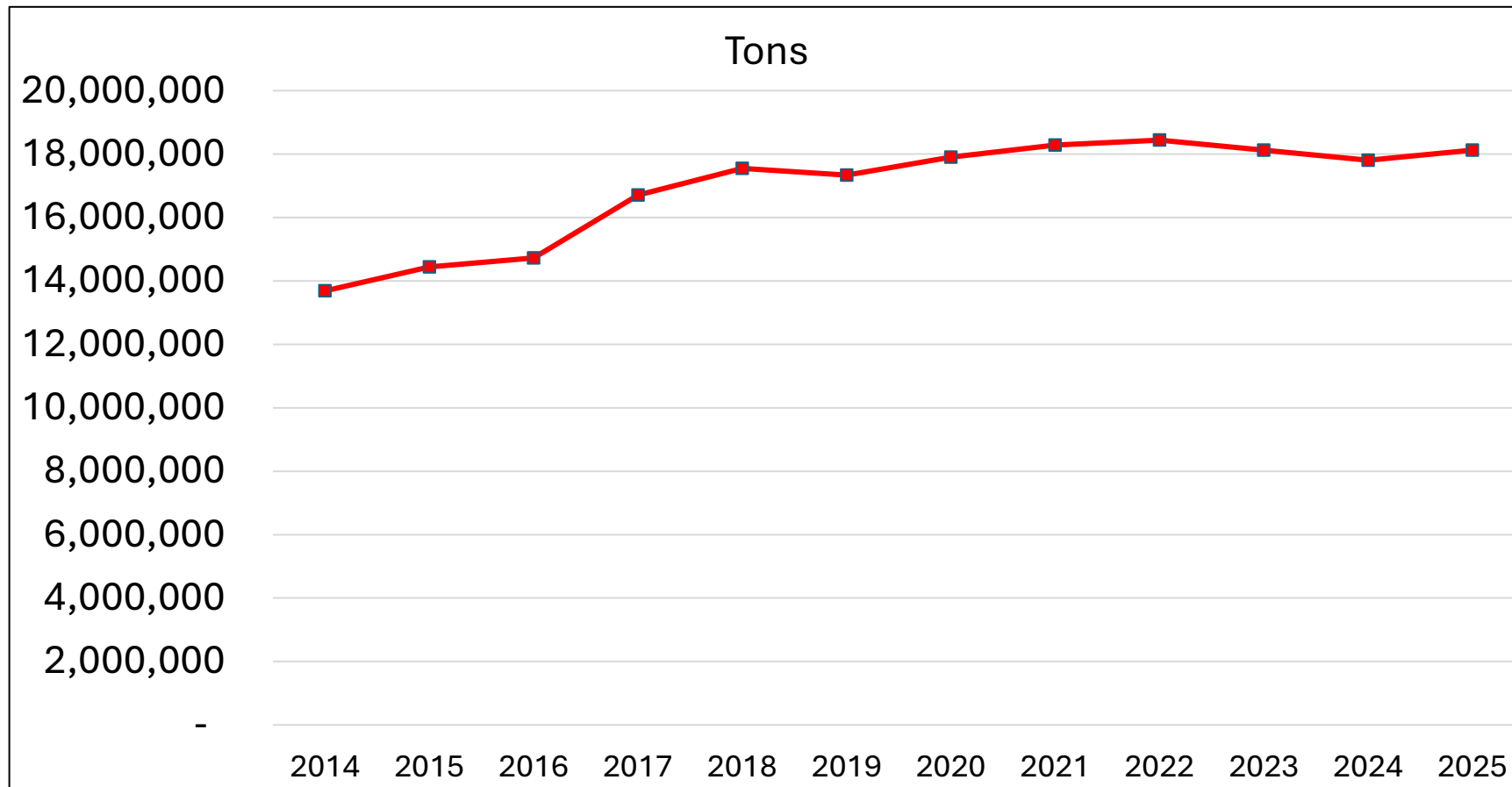
Total Asphalt Projects - 412



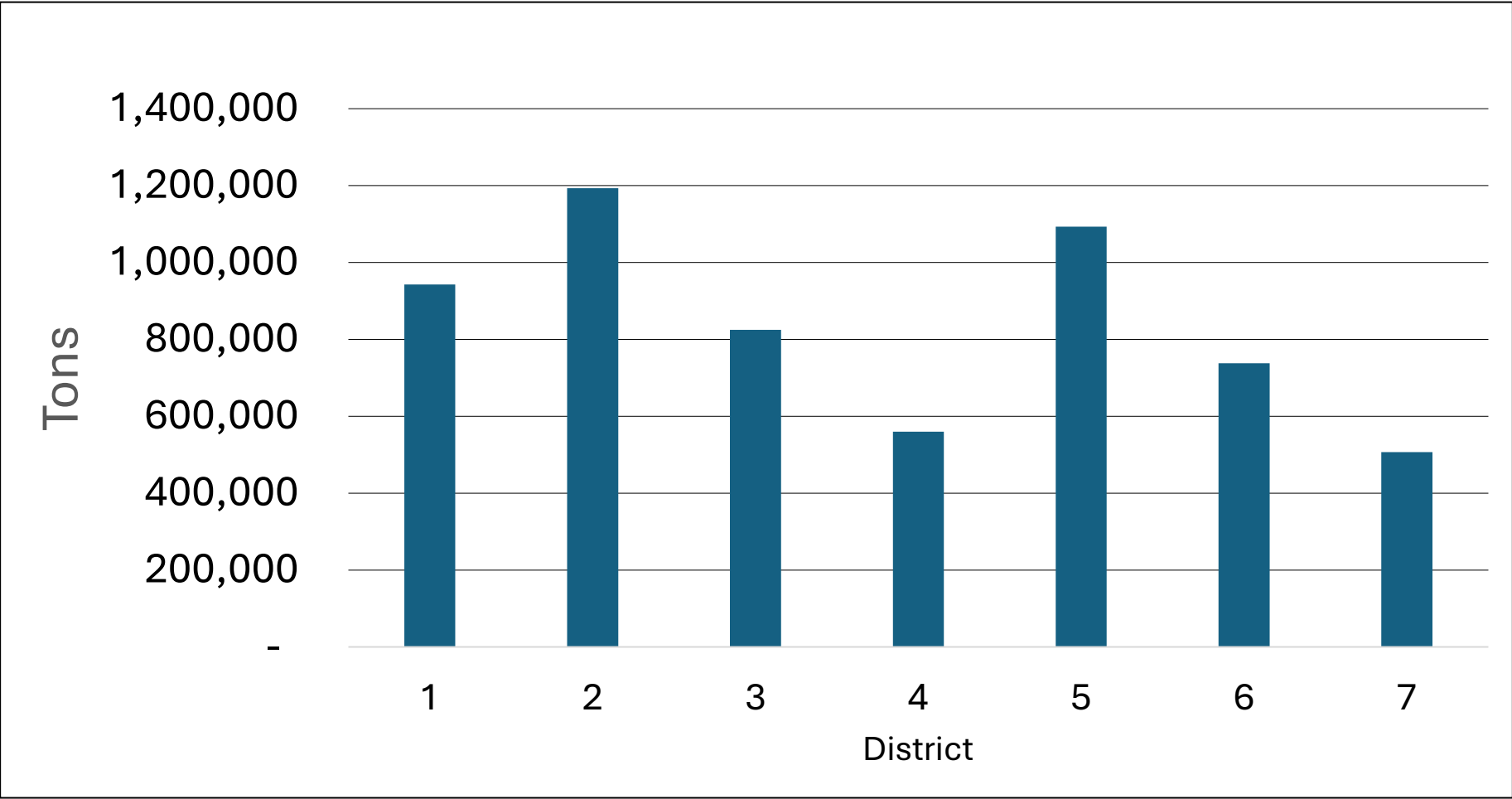
Historical FDOT Tonnages (2003 – 2025)



Statewide Quantities of Asphalt



Asphalt Mixture Tonnage by Geographic District (24/25)

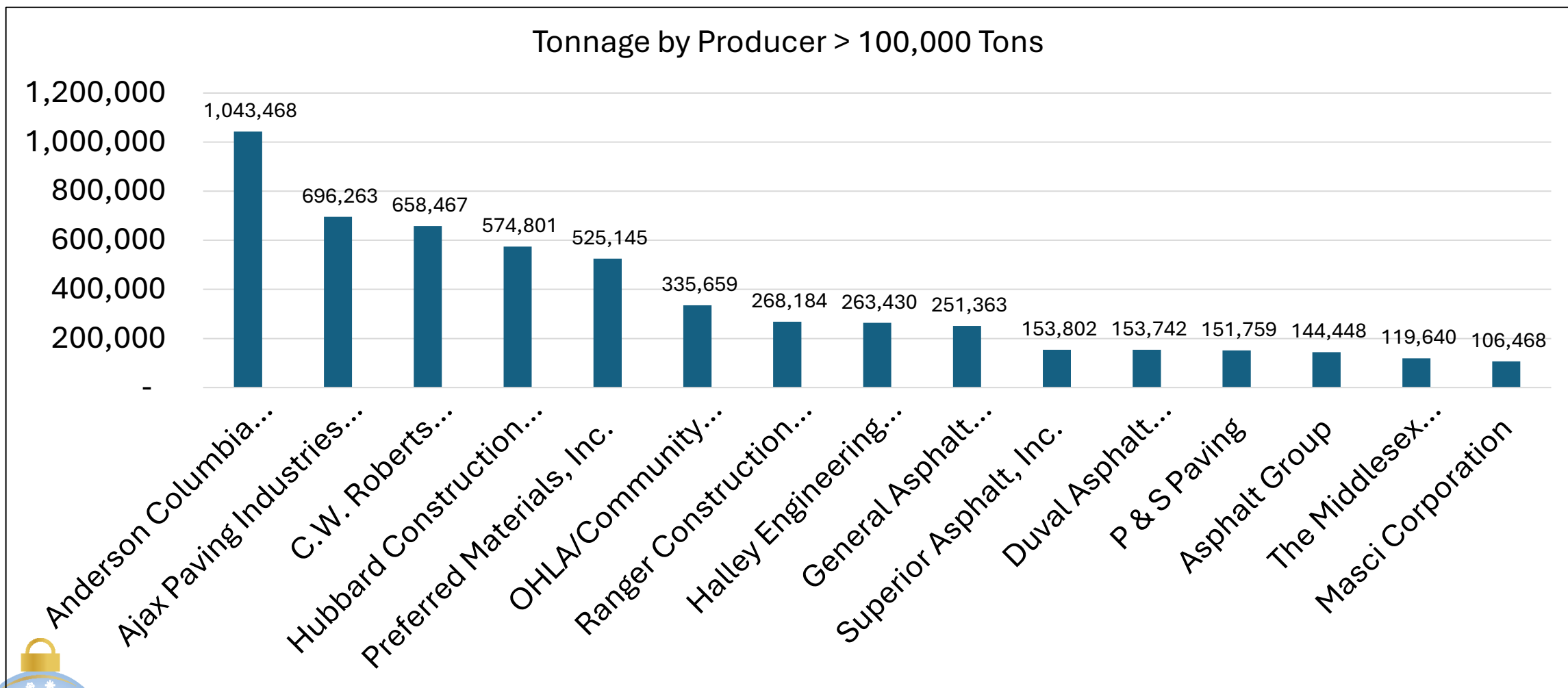


Number of Asphalt Contractors & Plants by Geographic District

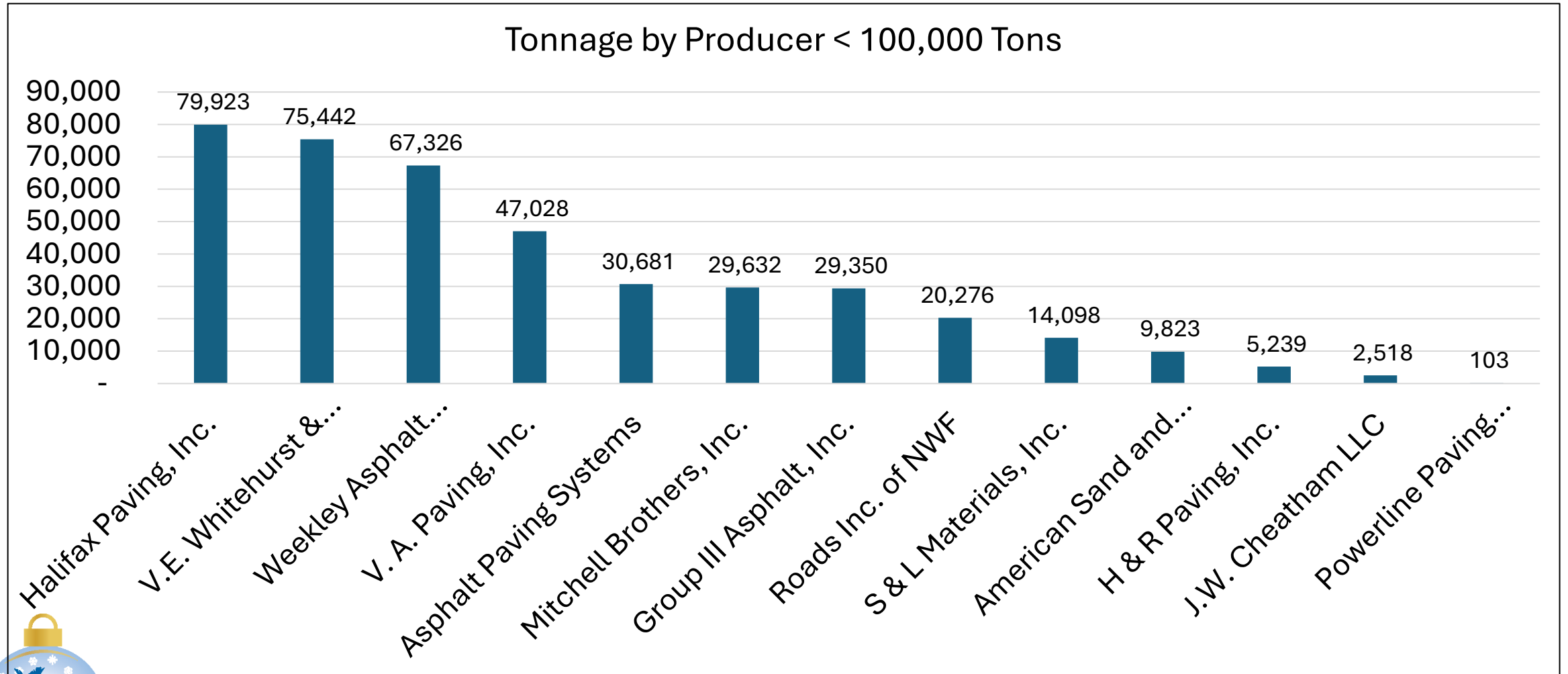
District	Contractors	Plants	Tons
1	6	14	950,752
2	5	15	1,200,922
3	6	13	832,393
4	6	9	567,311
5	12	16	1,100,878
6	6	7	745,427
7	6	8	514,497



Asphalt Mixture Tonnage by Producer (24/25)



Asphalt Mixture Tonnage by Producer (24/25)



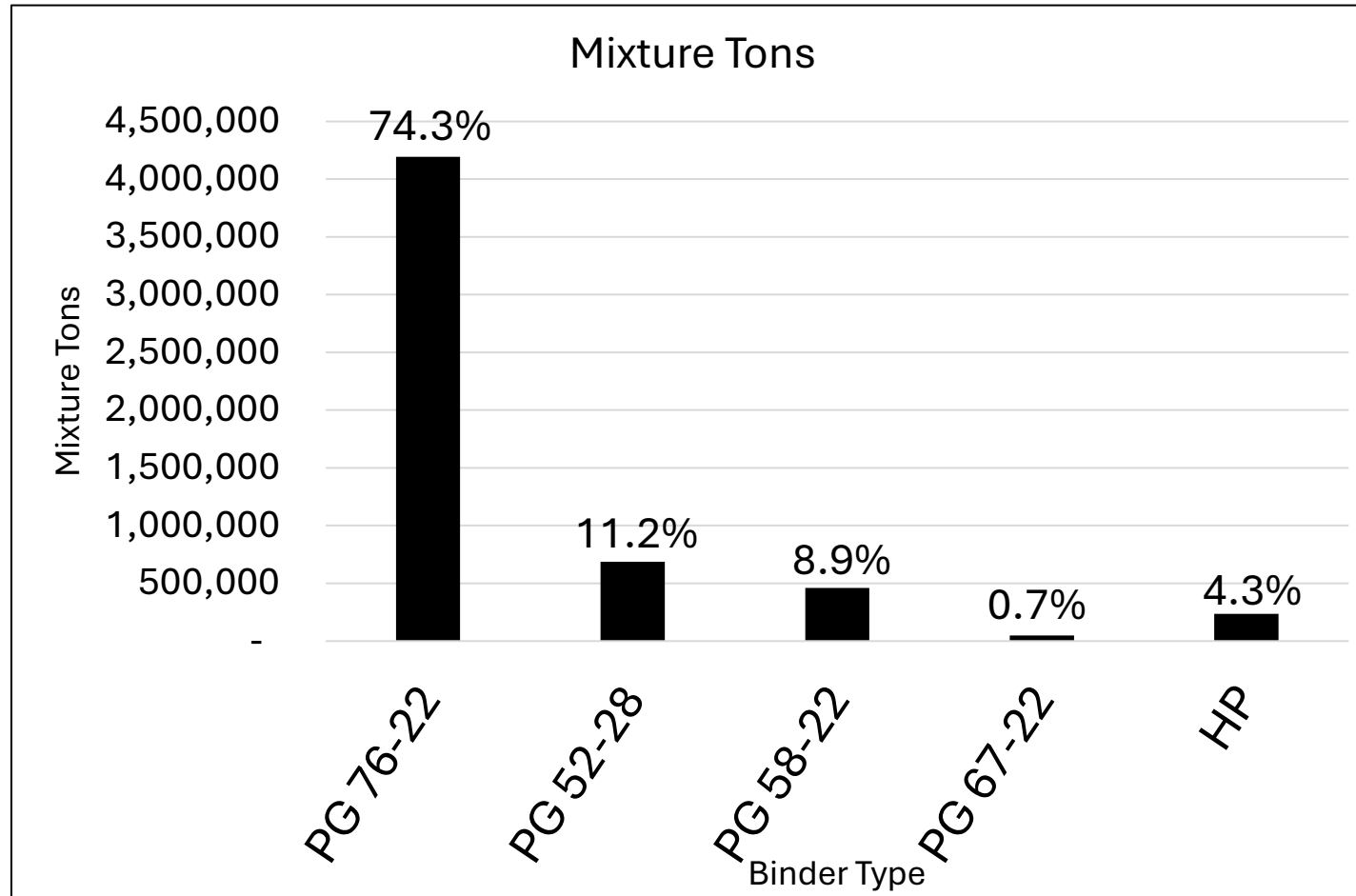


Top Ten Production Facilities (24/25)

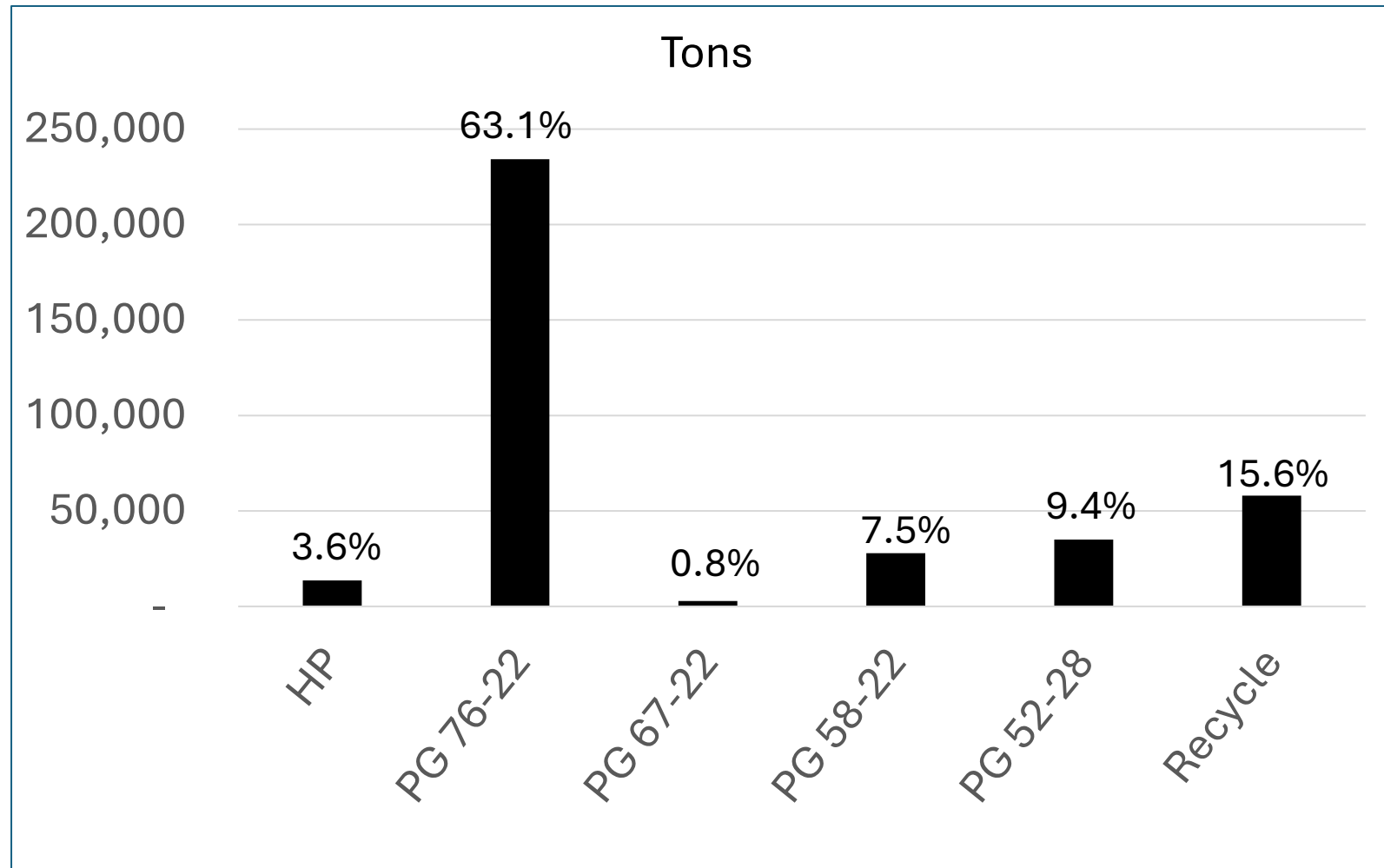
Rank	District	Producer	Plant	Location	Tons
1	2	Anderson Columbia Company	A0691	Lake City	209,413
2	1	Ajax Paving	A0108	Lake Wales	197,239
3	2	Hubbard Construction	A0750	Jacksonville	182,640
4	5	C.W. Roberts Contracting, Inc.	A0590	Sumterville	177,729
5	3	Anderson Columbia Company	A0775	Marianna	163,934
6	6	Halley Engineering Contractors	A0782	Miami	160,253
7	5	P & S Paving	A0781	Daytona	151,759
8	6	The Asphalt Group	A0643	Miami	144,448
9	4	Ranger Construction	A0614	Ft. Pierce	140,082
10	2	Anderson Columbia Company	A0200	Maxville	137,589



Asphalt Mixture Tonnage by Binder Type (24/25)



Binder Quantities (24/25)



RAP Usage

FY 23/24:

- 1,122,119 Tons of RAP
- 63,155 tons of Binder from RAP
- 1,058,964 tons of Aggregate from RAP

FY 24/25:

- 1,036,537 Tons of RAP
- 58,046 tons of Binder from RAP
- 978,491 tons of Aggregate from RAP



What if we didn't use any RAP? How much would the virgin materials cost?

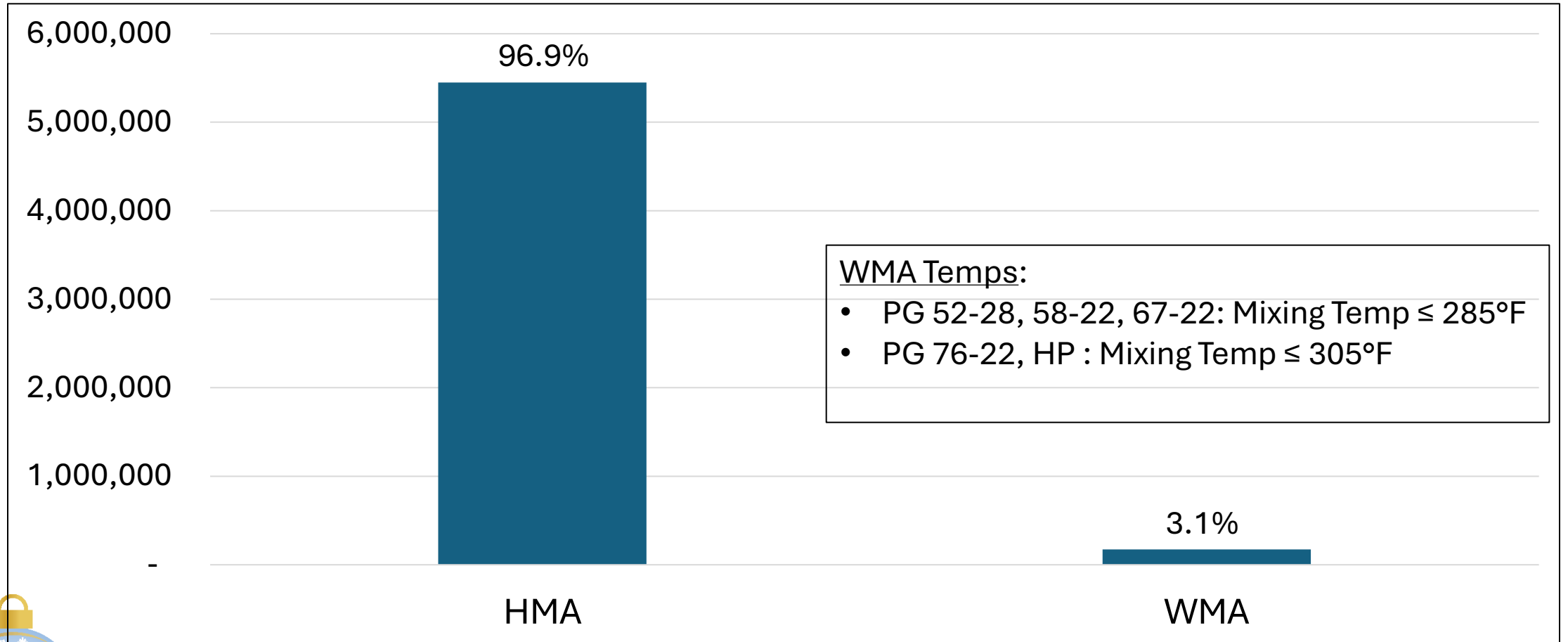
- 58,046 tons of binder @ \$697.85/ton = \$40,507,401
- 978,491 tons of aggregate @ \$35.00/ton = \$34,247,185
- RAP processing costs:
 - 1,036,537 tons of RAP @ \$10.00/ton = \$(10,365,370)

Total Savings (in one year):

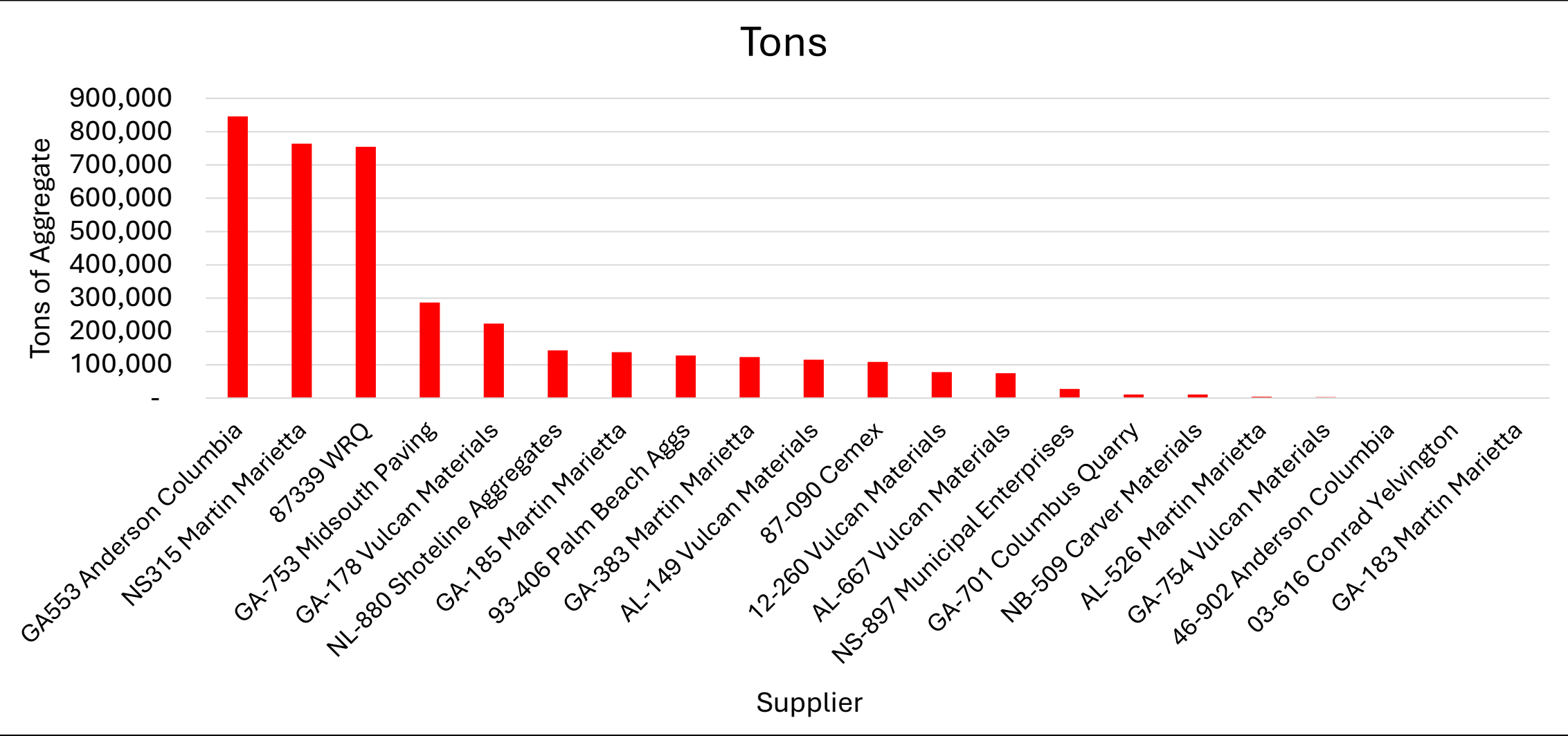
\$64,389,216



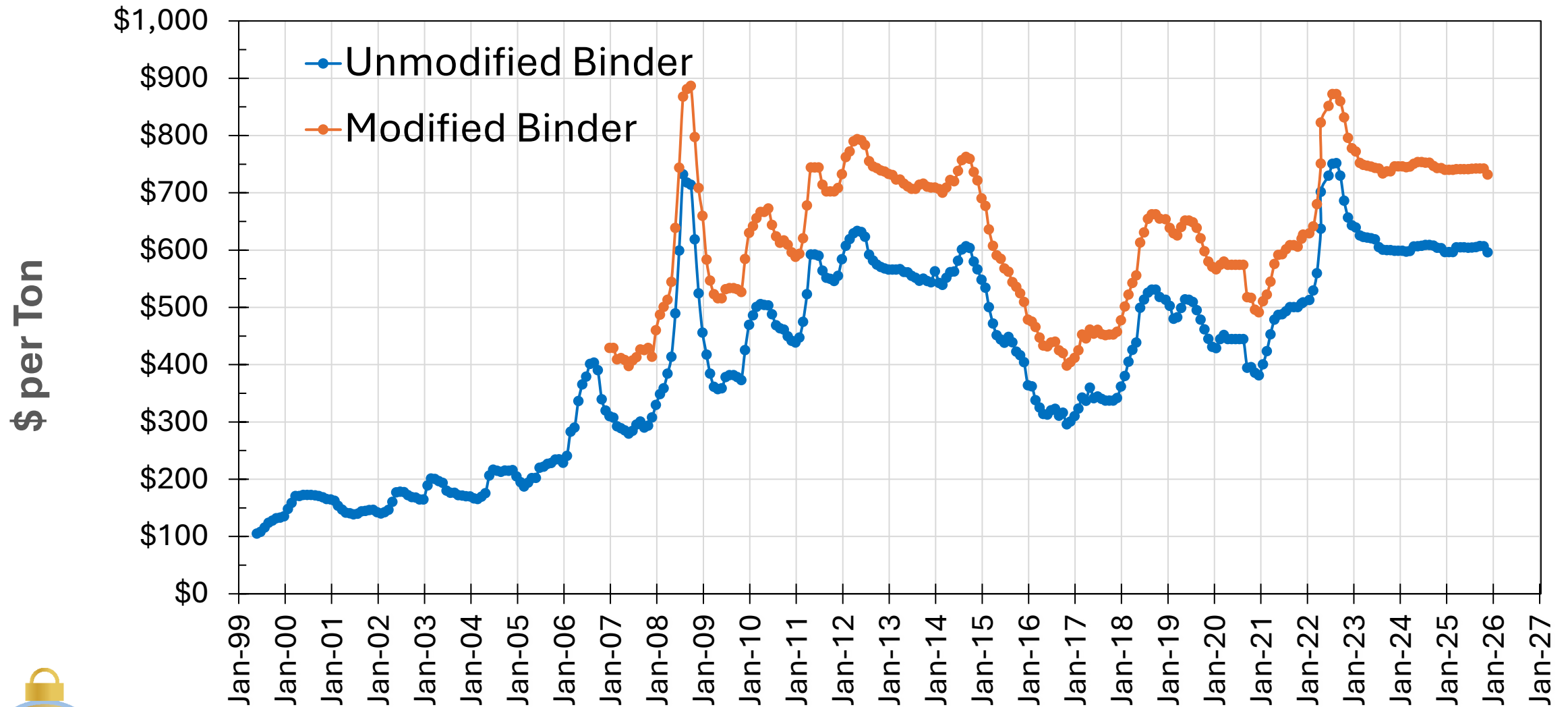
Warm Mix Asphalt



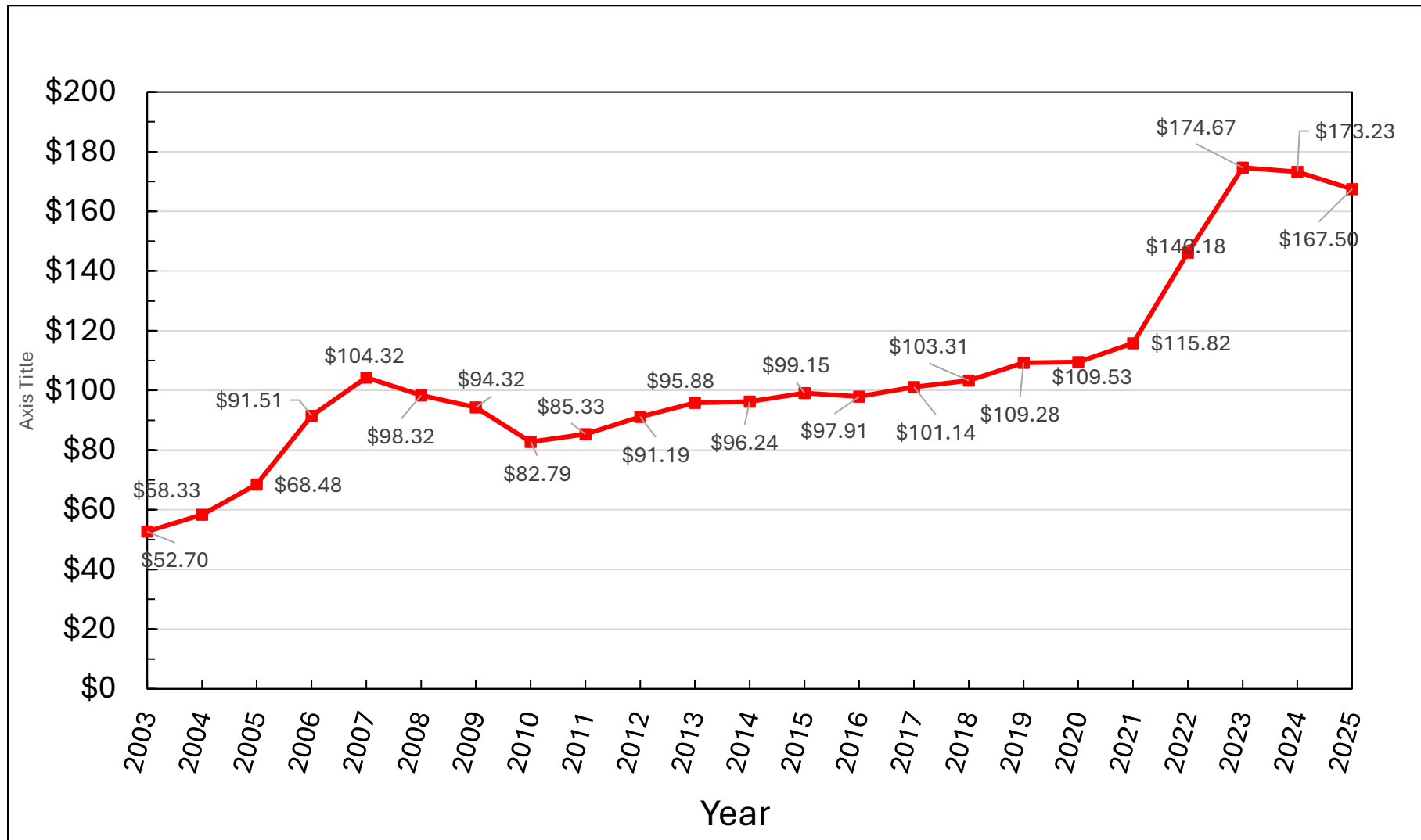
Asphalt Aggregate Quantities (24/25)



Asphalt Binder Costs



Asphalt Mixture Average Cost (\$/ton)



Pay Factor Data



Statewide Average Composite Pay Factor (CPF)

- **FY 24/25: 1.020**

- FY 23/24: 1.019
- FY 22/23: 1.020
- FY 21/22: 1.015
- FY 20/21: 1.020
- FY 19/20: 1.018
- FY 18/19: 1.016
- FY 17/18: 1.016
- FY 16/17: 1.013
- FY 15/16: 1.009
- FY 14/15: 1.018
- FY 13/14: 1.019
- FY 12/13: 1.011



FY 24/25 Top Producer CPF (> 100,000 tons)

1. Anderson Columbia – 1.0371
2. Asphalt Group – 1.0356
3. General Asphalt – 1.0336
4. Preferred Materials – 1.0299
5. Superior Asphalt – 1.0294



FY 24/25 Top Producer CPF (< 100,000 tons)

1. Mitchell Brothers, Inc. – 1.0468
2. Group III Asphalt, Inc. – 1.0435
3. V.E. Whitehurst & Sons, Inc. – 1.0426
4. Roads Inc. of NWF – 1.0402
5. J.W. Cheatham LLC – 1.0282



Statewide Pavement Performance

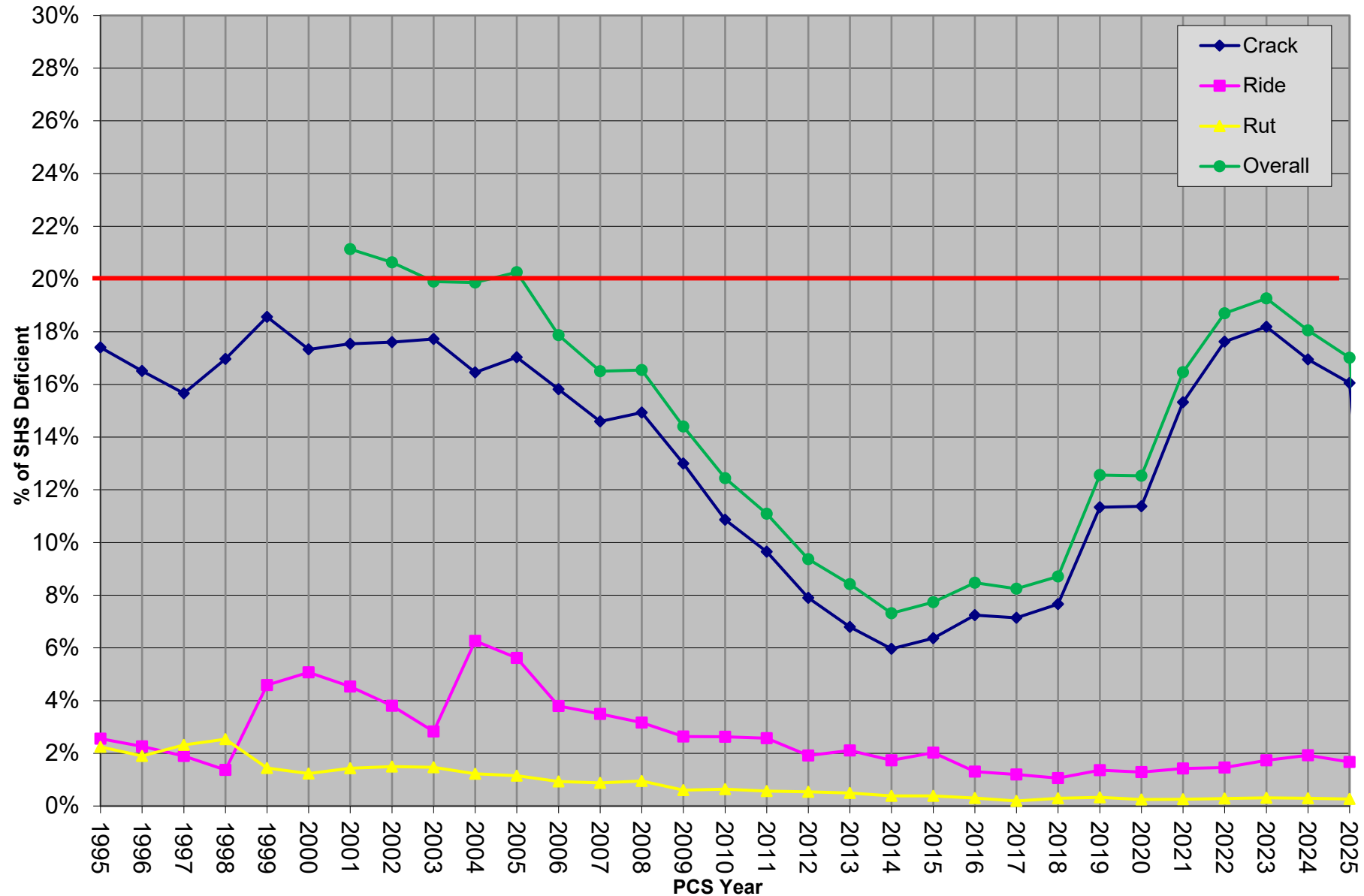
Florida Statute 334.046:

Ensuring that **80%** of the pavement on the State Highway System meets Department standards

Deficient Pavements (%)											
Criteria	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Overall	7.7	8.5	8.2	8.7	12.6	12.5	16.5	18.7	19.3	18.1	17.0
Ride	2.0	1.3	1.2	1.1	1.4	1.3	1.4	1.5	1.7	1.9	1.7
Crack	6.4	7.3	7.1	7.7	11.4	11.4	15.3	17.6	18.2	16.9	16.1
Rut	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



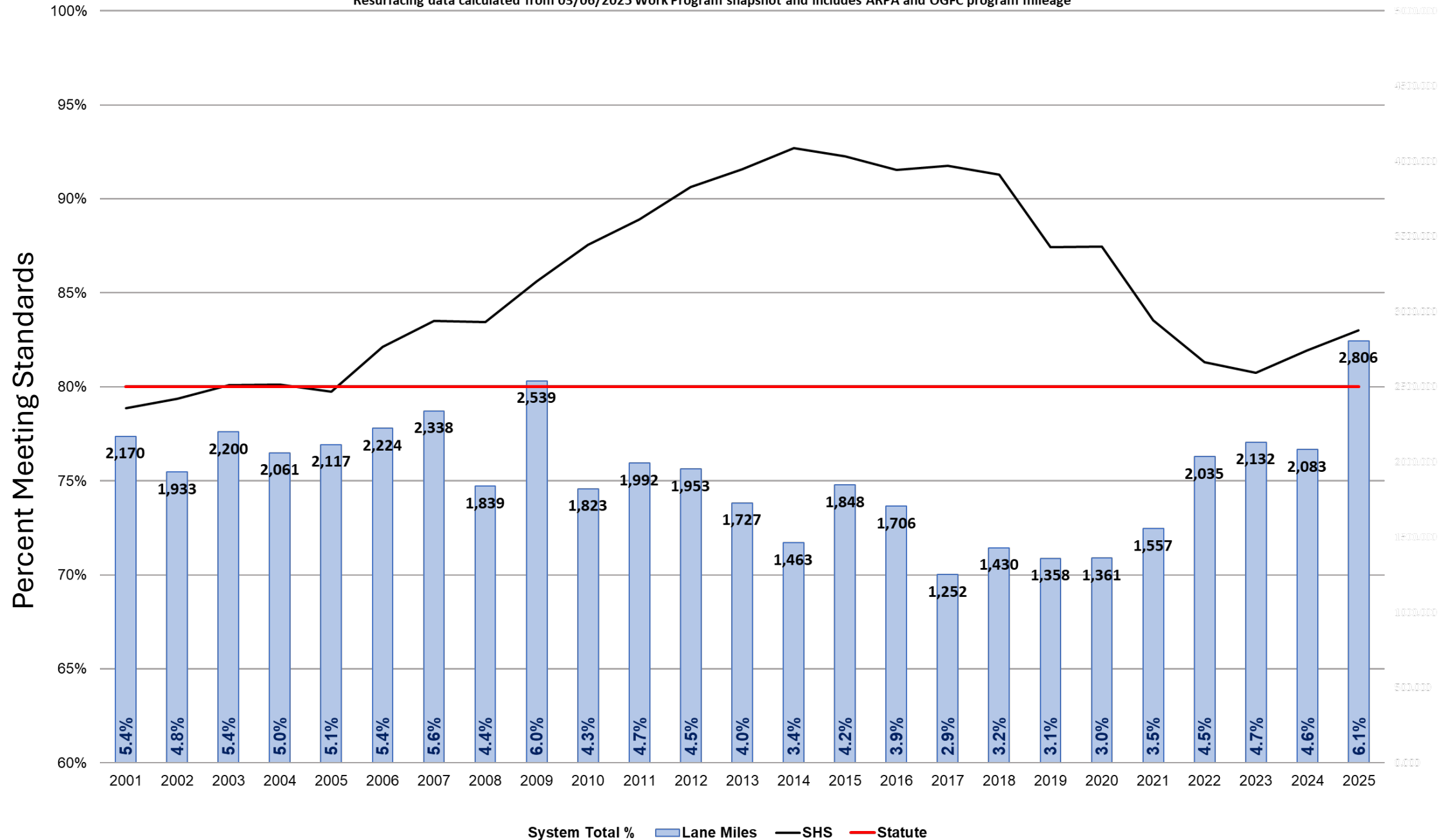
Statewide Deficient Pavements



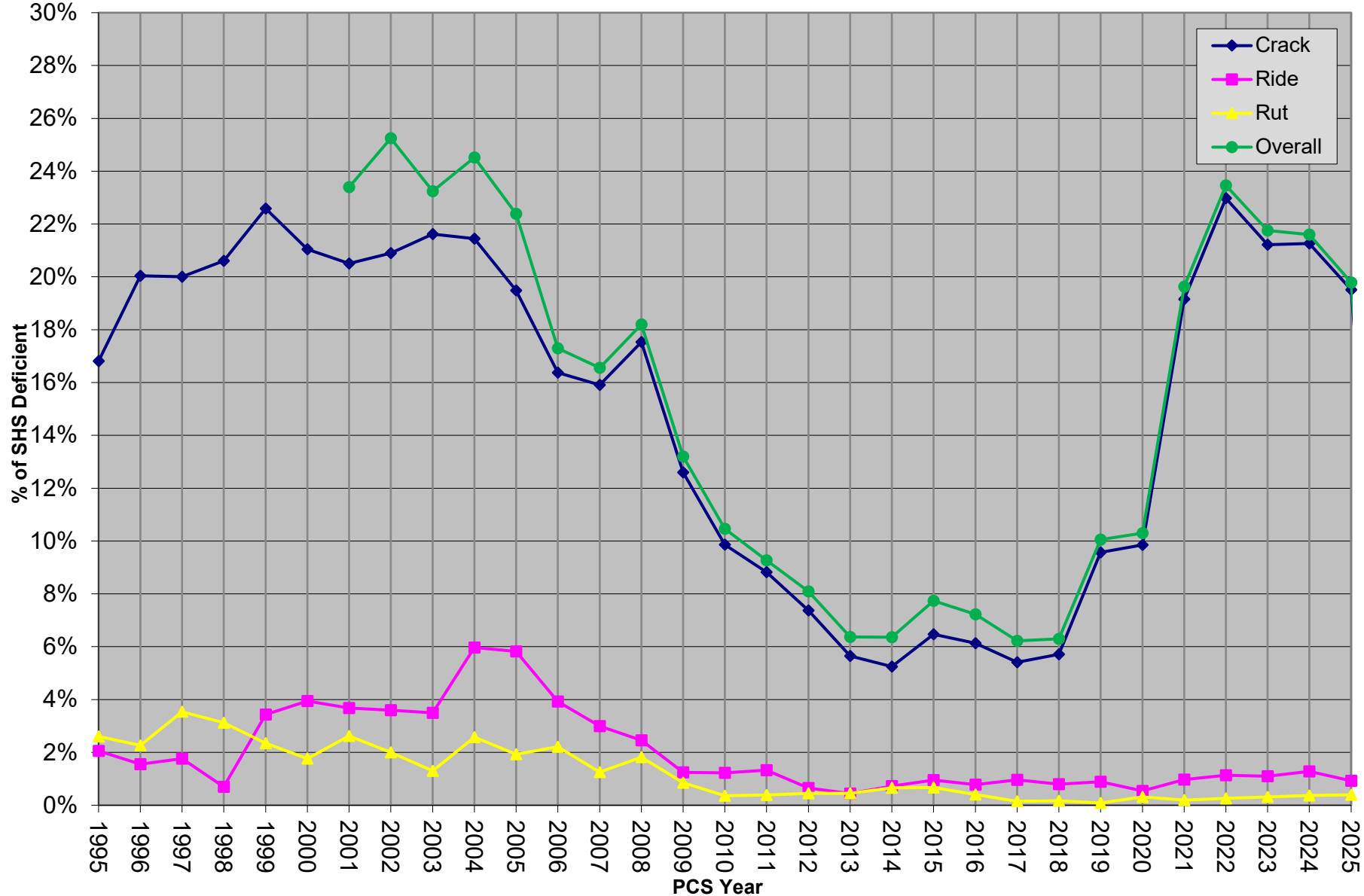
State Highway System

Lane Miles Resurfaced and Percent Meeting Standards

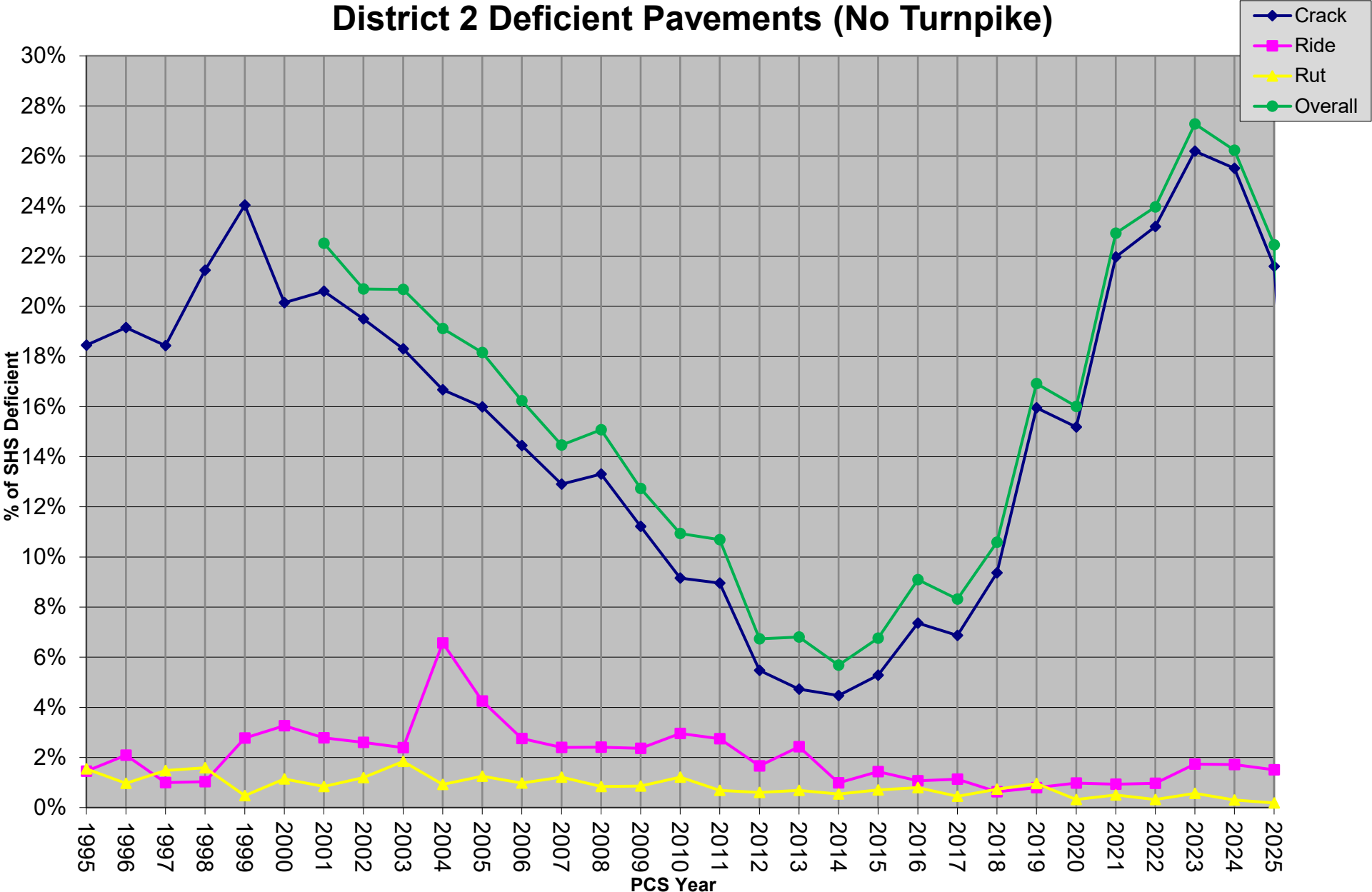
Resurfacing data calculated from 03/06/2025 Work Program snapshot and includes ARPA and OGFC program mileage



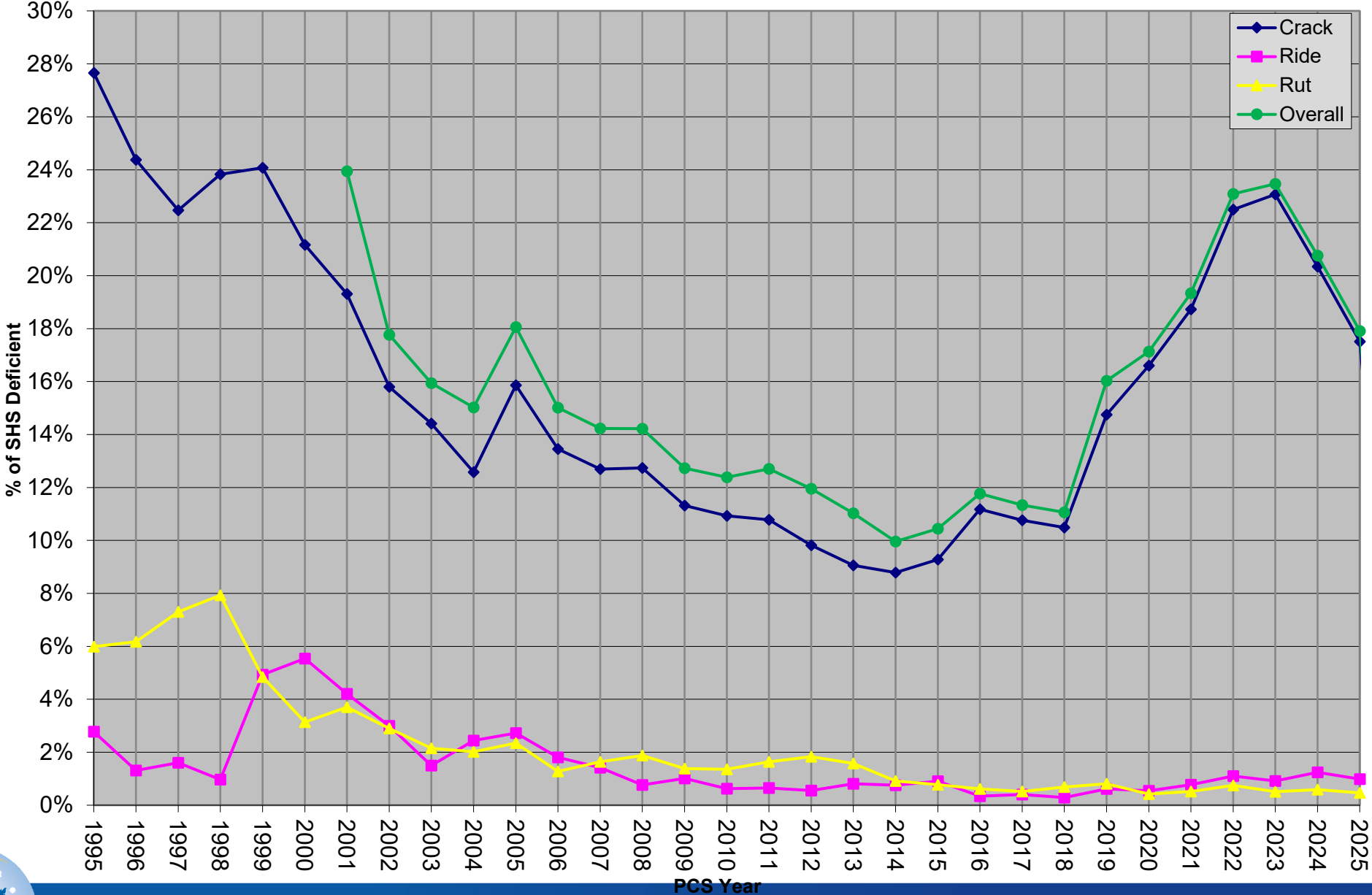
District 1 Deficient Pavements (No Turnpike)



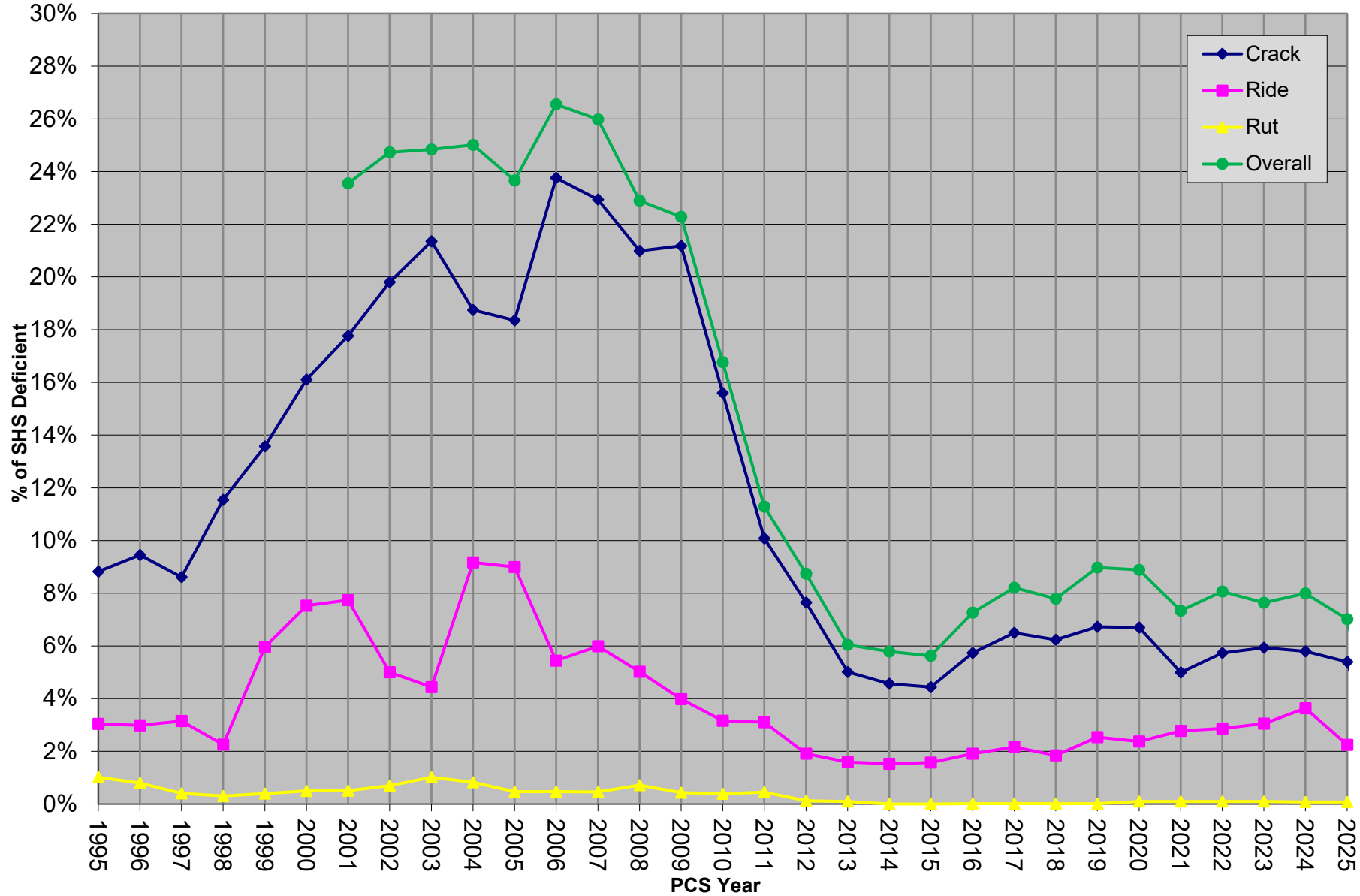
District 2 Deficient Pavements (No Turnpike)



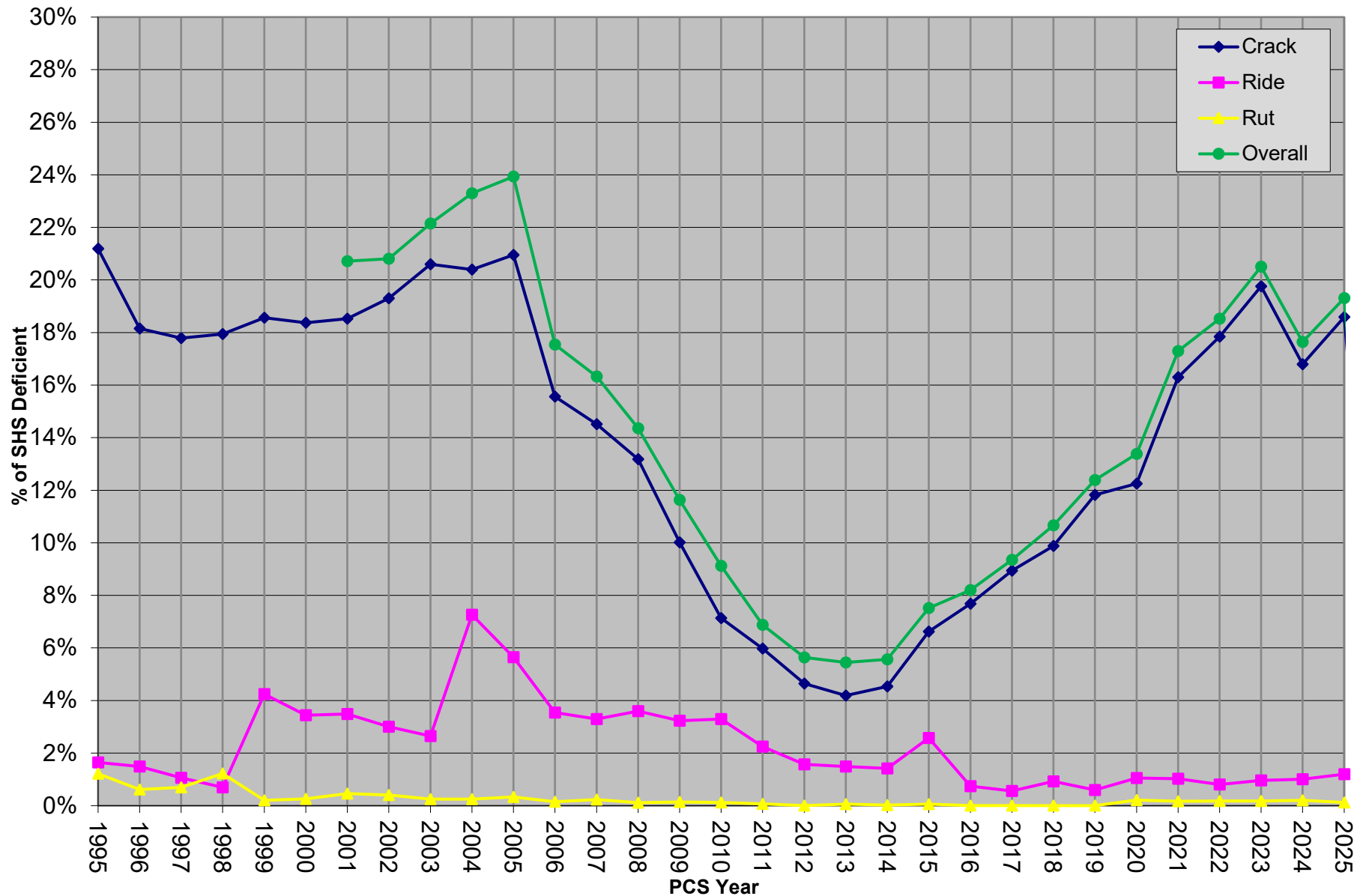
District 3 Deficient Pavements (No Turnpike)



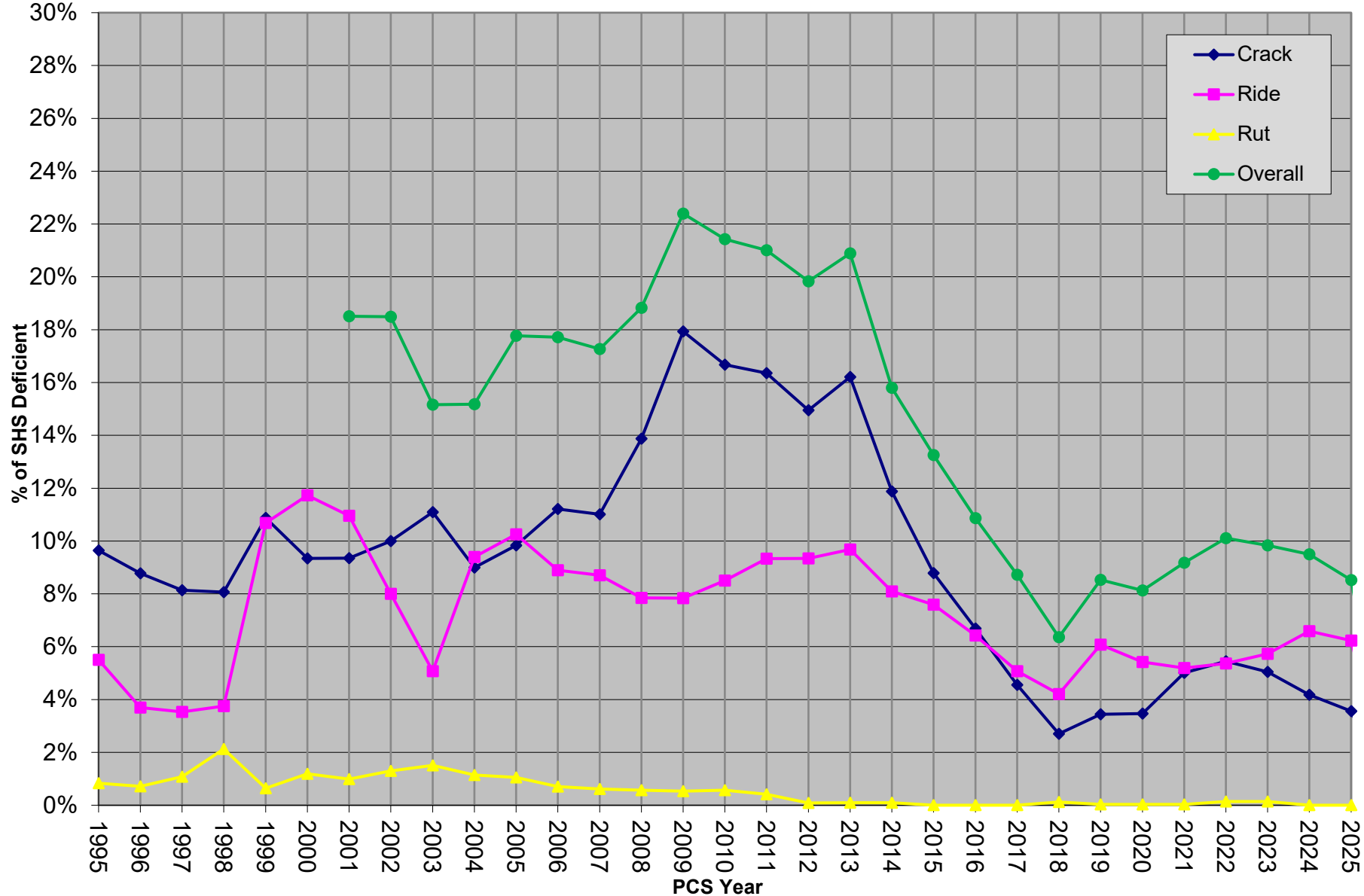
District 4 Deficient Pavements (No Turnpike)



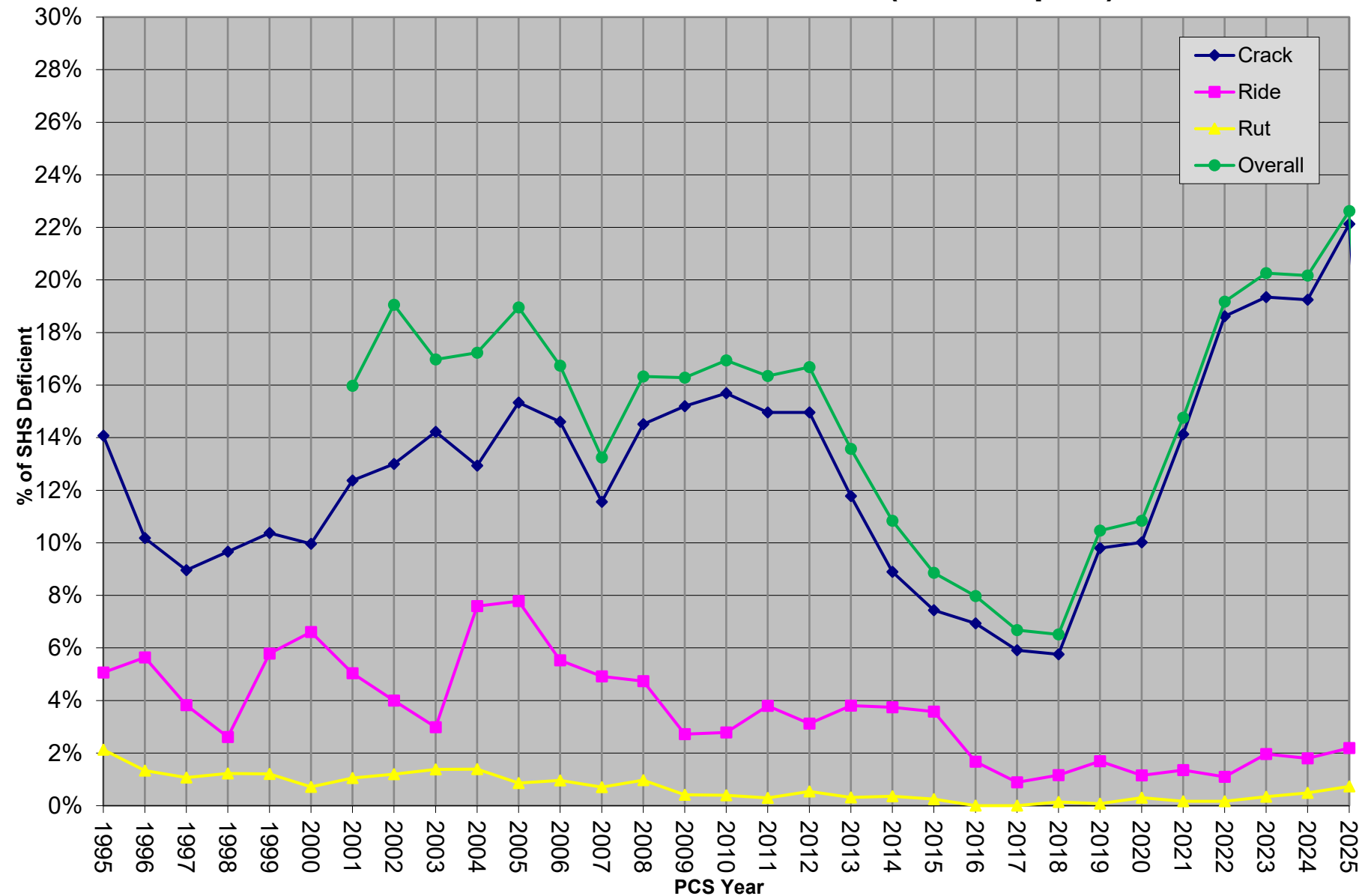
District 5 Deficient Pavements (No Turnpike)



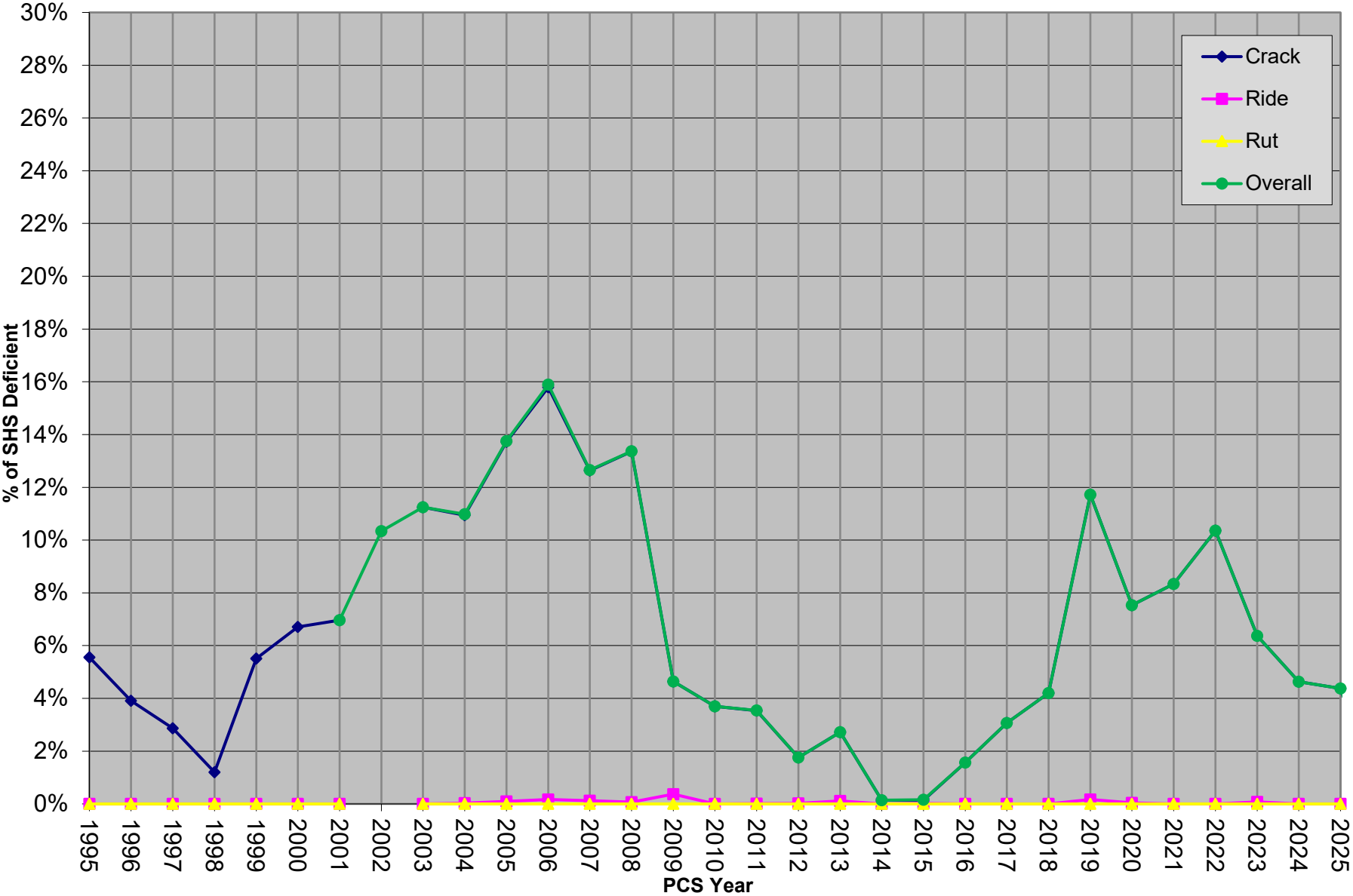
District 6 Deficient Pavements (No Turnpike)



District 7 Deficient Pavements (No Turnpike)



Turnpike Deficient Pavements





Thank You....Questions?

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