

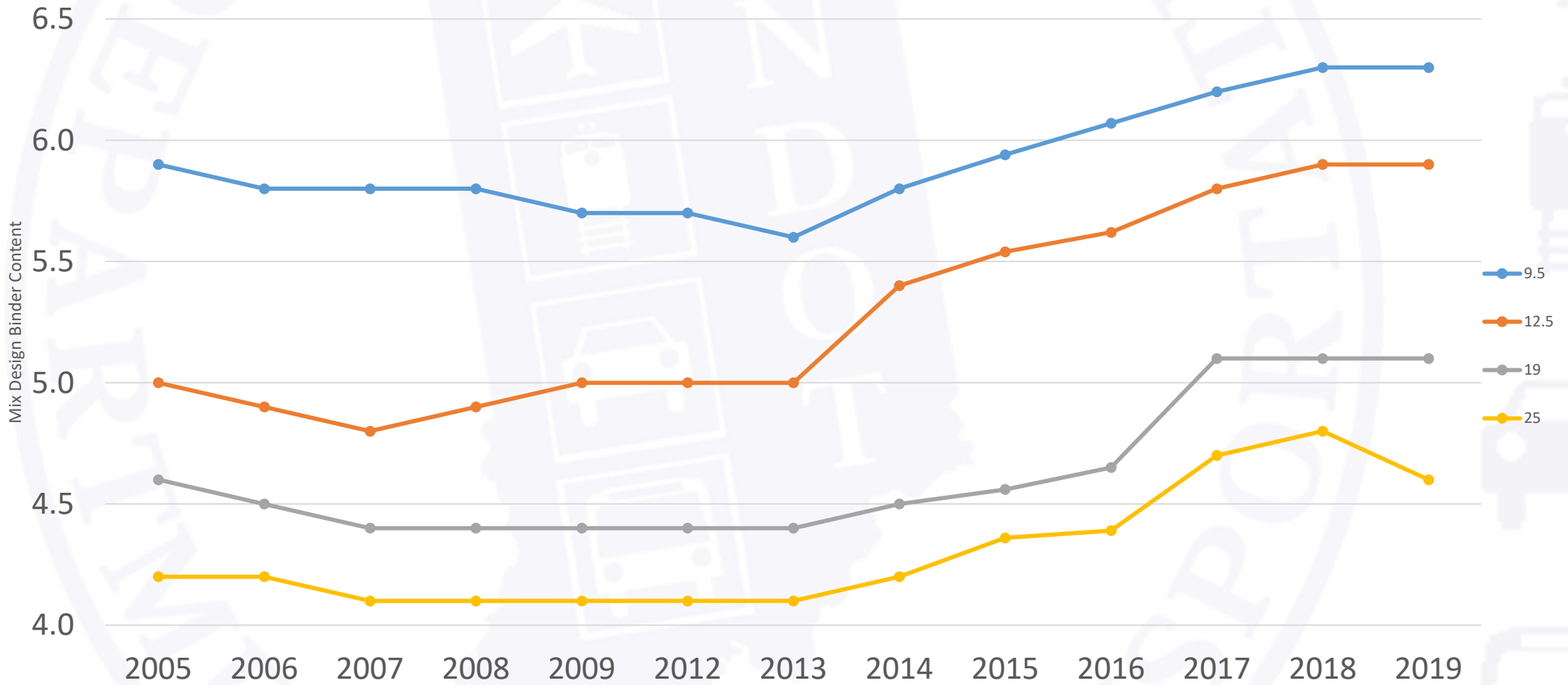
# Asphalt – Spring Regional Meeting

March 31, 2020

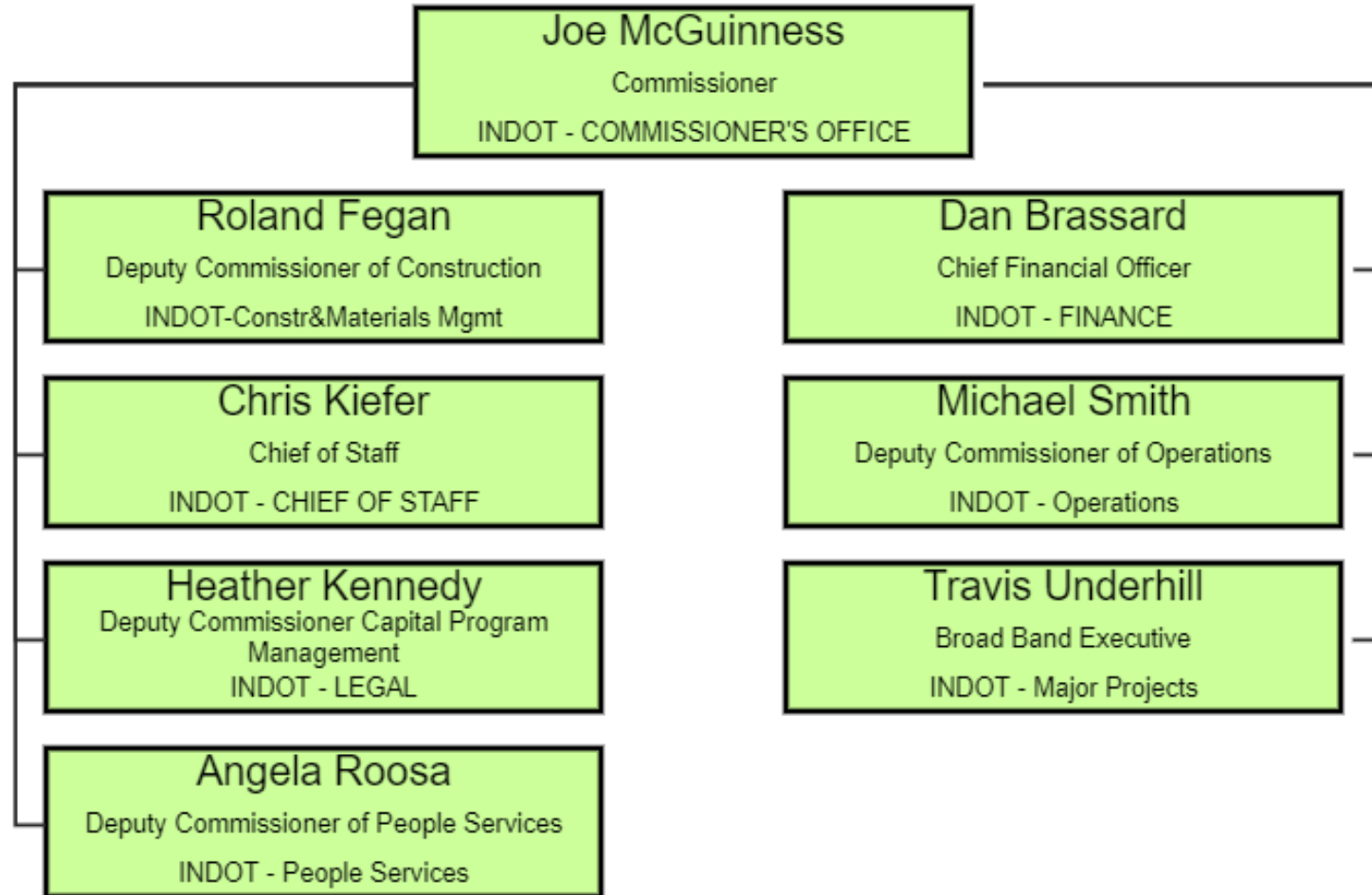
Matt Beeson, PE  
Director, Office of Materials Management

# From Then to Now

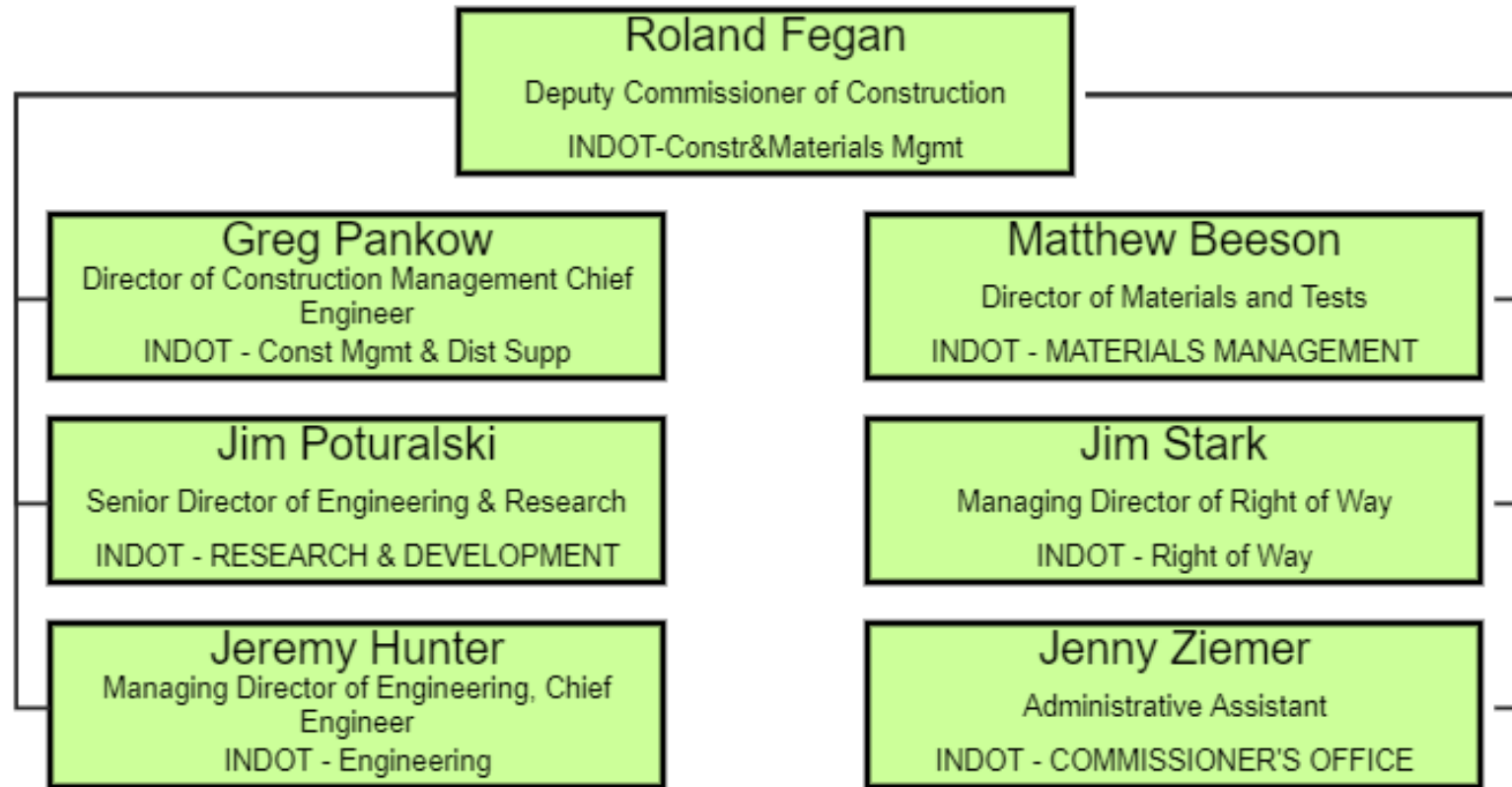
Indiana Binder Content Trends



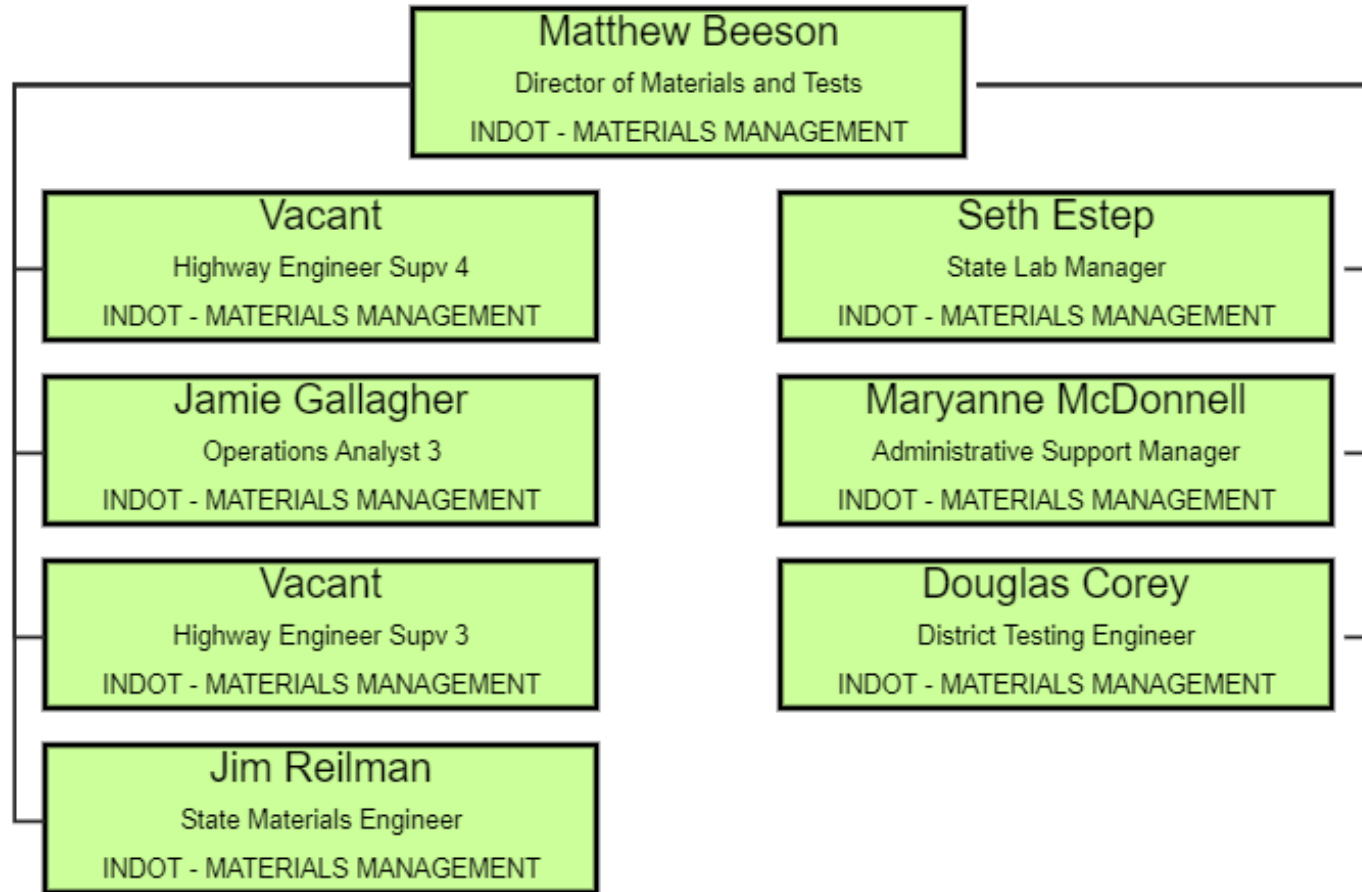
# Organizational Update



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# Organizational Update

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- Quality Assurance Group
  - Monitor District Independent Assurance functions
    - Suggest improvements, ensure consistency, manage documents
    - Provide training
    - Central point of contact
    - Lab inspections



# Failed Materials Committee

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- New FMC
- Will meet monthly
- Able to handle “Failed Material,” “Contract Compliance,” and other “We need an official ruling” issues
- Members: Design (Hunter), Materials (Reilman), Construction (Novak), Asset Management (Lowther), Beeson (chair, non-voting), Secretary TBD
- Appeal responses signed by Greg Pankow

# Technician Lists now online!

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- ICAT
- [https://www.in.gov/indot/div/mt/misc/ICAT\\_Techs.pdf](https://www.in.gov/indot/div/mt/misc/ICAT_Techs.pdf)
- Field Supervisor
- [https://www.in.gov/indot/div/mt/misc/HMA field supervisor.pdf](https://www.in.gov/indot/div/mt/misc/HMA_field_supervisor.pdf)



# Coronavirus Update

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- As of March 31, 2020 at 11:00 am, all INDOT contracts are proceeding as planned
- As with everything in our life, this is subject to change!

# Coronavirus Update

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- INDOT District Testing and OMM are supporting critical functions only
- Most are working from home
- We are available by phone and email!
  
- What we ARE doing:
  - Critical trial batches
  - Testing HMA samples



# Coronavirus Update

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- What we ARE NOT doing:
  - HMA audits
  - IA Proficiencies
  - Testing of field soils and aggregate samples



# Coronavirus Update

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- What we ARE NOT doing:
  - HMA Audits
  - IA Proficiencies
  - Testing of field soils and aggregate samples
- Critical samples will be sampled/tested
- Freezers are continuing to run
- Restrictions until May 1 as of now



# Coronavirus Update

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- Exceptions will be considered!
- We still want to ensure quality materials and Qualified samplers and testers
- Every effort will be made to postpone and defer
- But we will support Suppliers and Contractors! So we still may need to sample and test – case by case basis



# Coronavirus Update

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## Common Sense!

If it doesn't sound critical, it probably isn't

# 2019 Pay Factors

| PWL  |      |         |         |             |
|------|------|---------|---------|-------------|
|      | AV   | VMA/Vbe | Density | <b>LCPF</b> |
| 2017 | 0.97 | 0.95    | 1.01    | <b>0.97</b> |
| 2018 | 0.96 | 0.93    | 0.97    | <b>0.95</b> |
| 2019 | 1.00 | 0.98    | 0.97    | <b>0.98</b> |

| Volumetric (Single Sublot) |      |         |         |             |
|----------------------------|------|---------|---------|-------------|
|                            | AV   | VMA/Vbe | Density | <b>SCPF</b> |
| 2017                       | 0.98 | 0.91    | 0.99    | <b>0.94</b> |
| 2018                       | 0.97 | 0.95    | 0.98    | <b>0.93</b> |
| 2019                       | 0.99 | 1.01    | 1.00    | <b>1.00</b> |

# Superpave5

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- Air Voids at Ndes = 5.0%
- Design Gyration
  - 100 → 50
  - 75 → 30
- Density LSL = 93.0%





# Superpave5 2019 Density

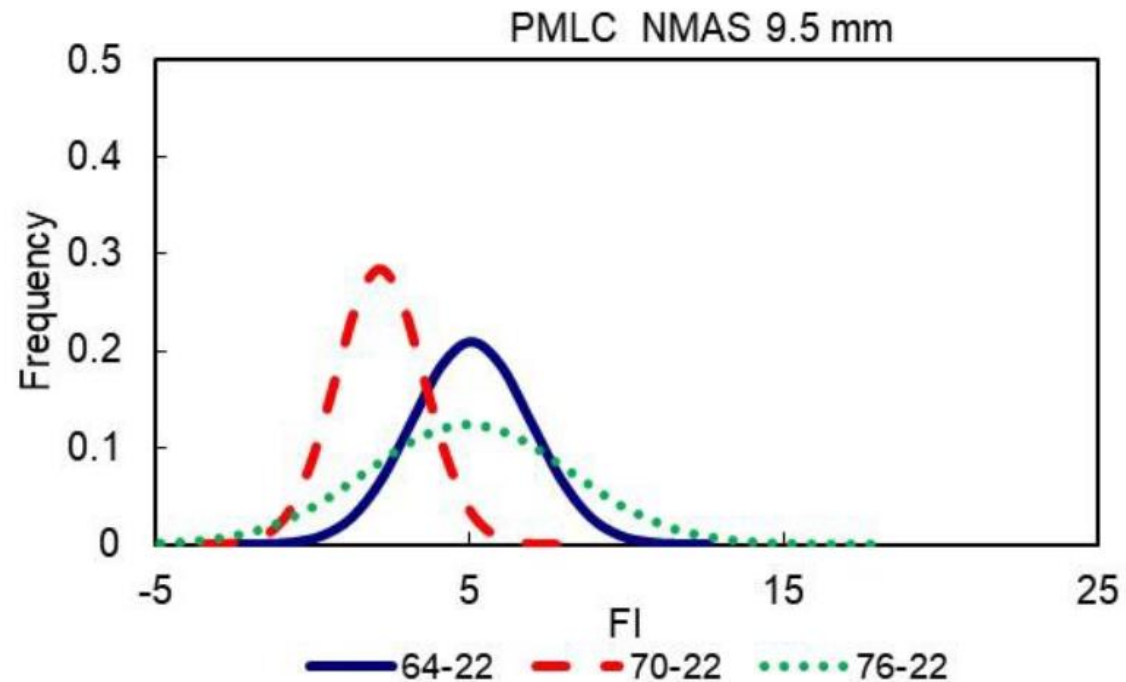
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- Superpave4
  - Average = 93.16%
  - 1529 sublots
- Superpave5
  - Average = 94.41%
  - 2033 sublots
- S5 50 gyrations
  - Average = 94.30%
  - 1631 sublots
- S5 30 gyrations
  - Average = 94.82%
  - 402 sublots



# Future topics

- PG Binder
- Research is proposed on this topic
- What's the problem?



# Future topics

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- PG Binder
- What's the problem?
  - We don't know, exactly
  - Are we even selecting the proper grade?
- Material Issues:
  - We don't have an elastic recovery spec
    - PPA (acid)
  - We need a reliable way to validate PG binder from mix samples
    - "How much recycled binder?"

# Future topics

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- Phase Change Materials
  - Delays temperature changes
- Imaging Technology
  - Pills/Cores
  - Tack Coat?



# Future topics

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- Performance Testing
- Balanced Mix Design
- Performance Engineered Mix Design

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# We're all in this together

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- Stay safe
- Stay home when you're not working
- I look forward to seeing you all again soon!



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# QUESTIONS?

Matthew Beeson

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