

# PAPA Regional Technical Meeting

March 15, 2022  
District 12

Russell B Duda  
District Materials Manager  
(724) 439-7442  
rududa@pa.gov



# 2021 Asphalt Mix Testing

## Testing:

- Mixture Acceptance by box sample – 72 lots
- Density Acceptance by pavement core – 67 lots

## Failure:

- 0 AC failures
- 0 Gradation failures
- 0 Density failures

# 2021 Longitudinal Joint Density Performance

	Longitudinal Joint Density Summary					
Year	2021	2020	2019	2018	2017	2016
Lots Tested	24	12	39	48	41	40
% Density Range	85.1-98.2	88.4-97.4	86.7-99.0	84.4-97.2	90.1-98.5	87.3-97.4
% Average Density	94.5	93.5	93.0	93.3	94.3	93.2
Total \$ for Incentive Lots	147,750	61,868	180,250	184,000	244,250	176,500
Total \$ for Disincentive Lots	-15,318	0	-1,200	-8,200	-1,440	-8,800
Delta (Incentive - Disincentive)	132,432	61,868	179,050	175,800	242,810	167,700

REF: Section 405 Evaluation of Bituminous Pavement  
 Longitudinal Joint Density and Payment of Incentive/Disincentive



# 2021 Longitudinal Joint Density Performance

- Longitudinal Joint Type

- Which joint type is being utilized most?

- Tapered

- We suspect we may get better or at least equal density with Vertical, however leaving the edge in place over night can potentially cause issues.

- Are you having any longitudinal joint issues?

- No issues are being experienced. Average Joint Density for the last 25 samples is 95.2%

- We did a J-Band pilot on SR906/B10 (ECMS#111658) in 2021. The J-Band was placed in fall of 2021 with first field view scheduled for April 2022.

# 2022 Planned Construction Projects

- List Projects With > 1000 tons of Asphalt Paving
  - ECMS#98291, 1/13/22, SR 2027, Washington County, 3,674 Tons
  - ECMS#116392, Let Date 1/13/22, SR 70, Washington County, 17,920 Tons (CL Jt. repair)
  - ECMS#116406, Let Date 2/3/22, SR 19, Greene County, 27,185 Tons

# 2022 Planned Construction Projects

- ECMS#79306, 2/17/22, SR 21, Fayette County, 8,067 Tons
- ECMS#116408, Let Date 3/17/22, SR 1017, Washington County, 76,625 Tons (SIP)
- ECMS#75972, Let Date 3/31/22, SR 3007, Westmoreland County, 2,029 Tons
- ECMS#75978, Let Date 3/31/22, SR70, Westmoreland County, 45,680 Tons

# 2022 Planned Construction Projects

- ECMS#116410, 3/31/22, SR 30, Westmoreland County, 90,334 Tons (SIP)
- ECMS#116405, Let Date 4/14/22, SR 21, Fayette County, 32,615 Tons (SIP)
- ECMS#109242, Let Date 10/6/22, SR 1010, Washington County, 1,609 Tons
- ECMS#111650, Let Date 10/6/22, SR1030, Westmoreland County, 45,680 Tons

# 2022 Planned Construction Projects

- ECMS#81751, 12/8/22, SR 356, Westmoreland County, 7,847 Tons
- ECMS#105306, Let Date 12/8/22, SR 21, Greene County, 2,662 Tons
- ECMS#76105, Let Date 12/15/22, SR 119, Westmoreland County, 1,138 Tons
- ECMS#76123, Let Date 12/15/22, SR711, Westmoreland County, 2,043 Tons



# 2022 Maintenance Asphalt Tons (Estimated)

County	9.5 mm	9.5 mm LVR	12.5 mm	19.0 mm	19.0 mm LVR	25.0 mm	25.0 mm LVR	37.5 mm
1210	3500			7000		8000		
1220	200			0		100		
1240	2700			5000		6000		
1250	9000			1500		3000		
TOTAL TONS	15400			13500		17100		

LVR = Low Volume Roads



# District eTicketing Pilots

- Please discuss your experience with Asphalt eTicketing Projects.
  - District 12 has three (3) eTicketing pilots that will begin this spring. No info to share to date.
  - ECMS#107957 – Asphalt
  - ECMS#77872 – Aggregate
  - ECMS#114224 - Concrete

# District 6.3 & SMA Projects

- List of 2021 6.3 mm Thin Lift projects
  - No 6.3mm projects in D-12
  
- List of SMA Projects
  1. ECMS#107957 – SR981/Q20 (2021)
  2. ECMS#91555 – SR79/18R (2021)
  3. ECMS#75978 – SR70/E10 (2022)

# District HWTT/IDEAL-CT Pilots

- **Please list pilot HWTT/IDEAL-CT Pilot Projects**
  - ECMS#76010 – SR1037/B10
  - ECMS#77872 – SR3103/C20
  - ECMS#76027 – SR19/A20
  - ECMS#30822 – SR4012/K10
  - ECMS#107957 – SR981/Q20

# Mix Design

- Do you see any issues with reducing the mix design gyration numbers to 50 & 75?
  - Carry-over projects will use the old gyration mixes unless the producer requests to change to the new gyration mixes at no additional cost
  - All old gyration mix designs will be conditionally approved for a specific project only

## District 9.5 mm & 19.0 mm High RAP Mixes for LVR Mixes

- Have your maintenance forces completed a 19.0 mm or 9.5 mm for Low Volume Roads mix project yet?
  - None in D-12 in 2021

# District Rehabilitation Projects

- Have you bid and/or completed any crack and seat projects/rubblization/asphalt structural overlay in the past few years?
  - Bid and completed SR366/20R (ECMS#98449) in 2015. **Crack & Seat existing 9" Reinforced Concrete Pavement** built in 1972. Overlaid with Superpave PG64-22 in one direction and crumb rubber in the other direction.

# District Innovations & Best Practices

- Please discuss any Innovations/Best Practices that you have piloted or recommend.
  - We are using SMA on all interstate projects.



## 2021 District Issues - Problems

- Please discuss any issues, problems, etc. that you had with asphalt paving producers or contractors. How did you resolve them?
  - No significant issues recently

# 2022 District Changes - Direction

- Please list - discuss any changes to policy, specifications, special provisions, staff, etc. that are relevant to the asphalt paving industry.
  - Design Gyration change
  - eTicketing Pilot Projects
  - HWT/CT-Index Pilots

# Questions/Comments???



Russell B Duda  
District 12 Materials Manager  
724.439.7442  
rududa@pa.gov