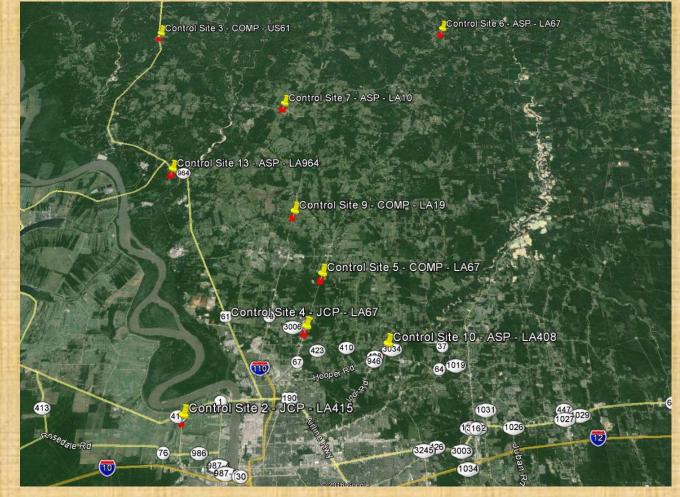
The challenges of overhauling the old data collected with old technology with data collected with new technology. How to transition from new data collection technology/methods and correlate it with old condition data.

Chris Fillastre: Pavement Management EngineerE-mail: Christophe.Fillastre@la.govPhone Number: 3-4577 or (225) 242-4577

2D - 3D Comparison

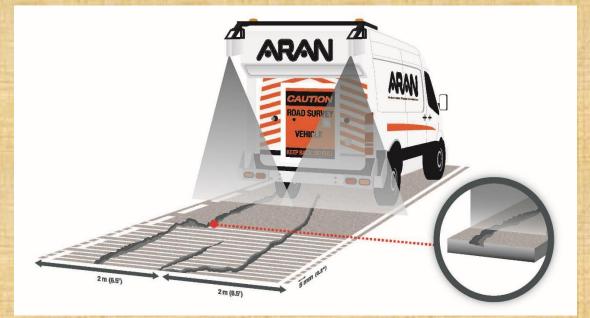
Overall Comparison Testing

- 9 sites collected for a total of 4.5 miles (0.5 mile each)
- 2D and 3D vehicles collected the same sites
- Asphalt (4 sites), Composite (3 sites), JCP (2 sites)



Pave3D System Overview

- 3D imaging
 - Range
 - Intensity
- Measures >2mm cracks

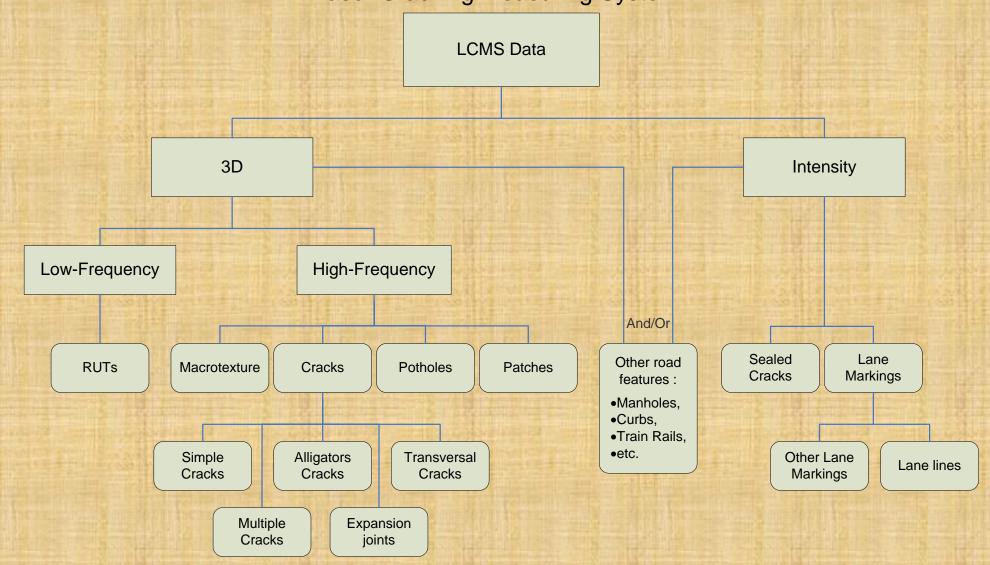


Acquisition Rate	5,600 profiles/s
Longitudinal Resolution	0.2" (5mm)
Range (Depth) Accuracy	0.02" (0.5mm)
Transverse Resolution	0.04" (1mm)
Transverse Width	13.5ft (4.1m)

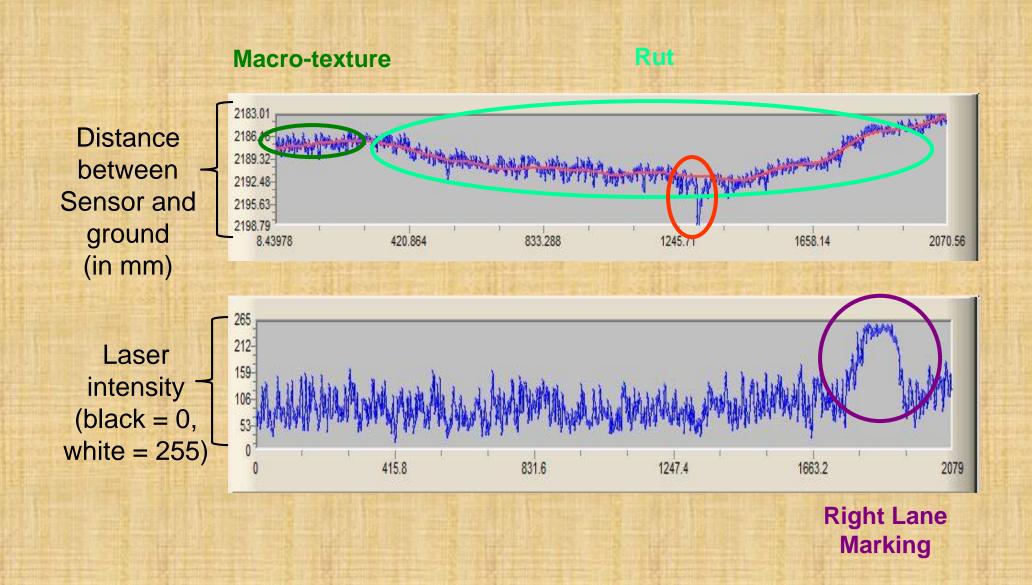


Pave3D (LCMS) Data

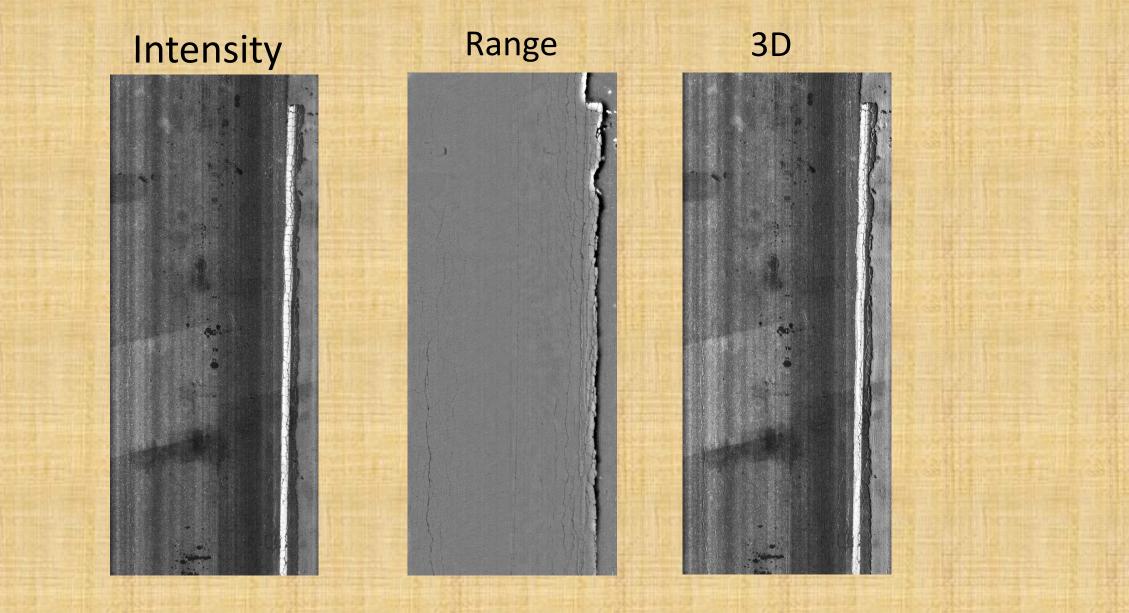
Laser Cracking Measuring System



Profile Data



Pave3D Image Output



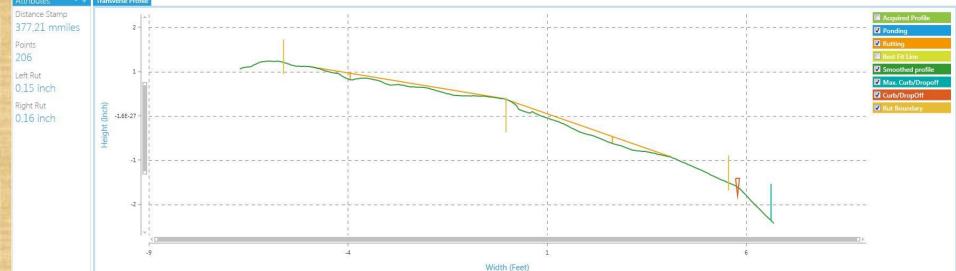
Range + Intensity = 3D



Transverse Profile (Rutting) Comparison of Laser Rut Measuring System & Laser Crack

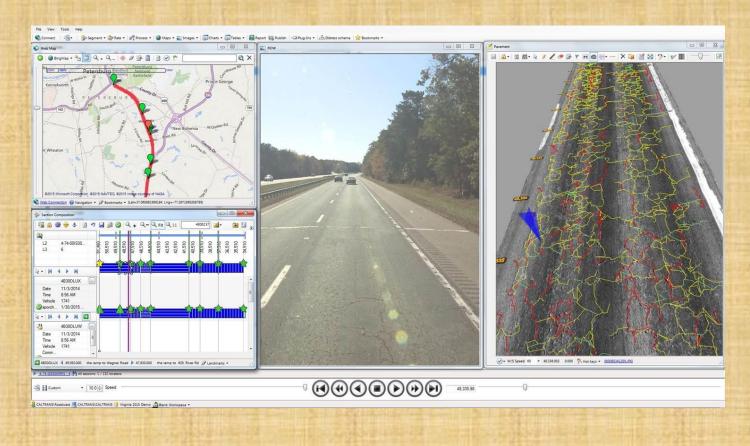
 Comparison of Laser Rut Measuring System & Laser Crack Measuring System

	LRMS	LCMS	
Number of Points	1280 points	4096 points +/-0.5mm	
Depth Accuracy	+/-1mm		
RAW Storage	.LRMS	.FIS	
Sampled File	.TP	Same	
Rut Processor	Fugro Roadware	Same	
tes • 9 Transverse Profile			



Automated Crack Detection

- Not many variables to adjust
- Automatically detects pavement type and adjusts settings
 - Asphalt, Porous, Concrete, Transverse Tined Concrete, Longitudinally Tined Concrete



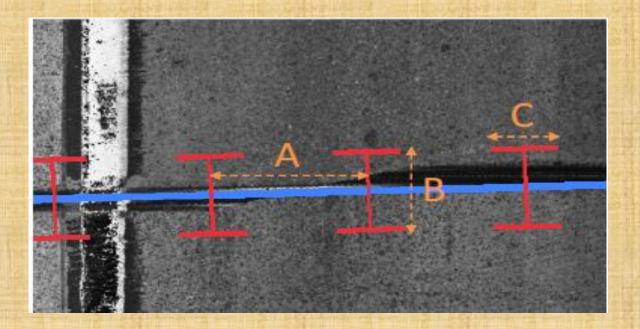
Automated Crack Detection

- What can Pave3D (LCMS) detect?
- Crack widths >2mm

	2D	3D	
Resolution	2mm x 2mm	1mm x 5mm	
Detection Positives	 Proven Algorithms Reliable Good Processing Speed Good for Manual Rating 	 Depth Information More Consistent Not light dependent Better Damp Detection Less False Positives 	
Detection Negatives	 Lighting dependent (Shadows) No depth information Many False Positives 	Larger RAW FilesSlower Detection	

Faulting

- Averaging Window Width (mm) C Window width of faulting calculation (Default=200mm)
- Measurement Distance (mm) B Longitudinal Distance between two measured points on either side of the joint (Default=300mm)
- Position Distance (mm) A Transverse distance between two fault measurements along the joint



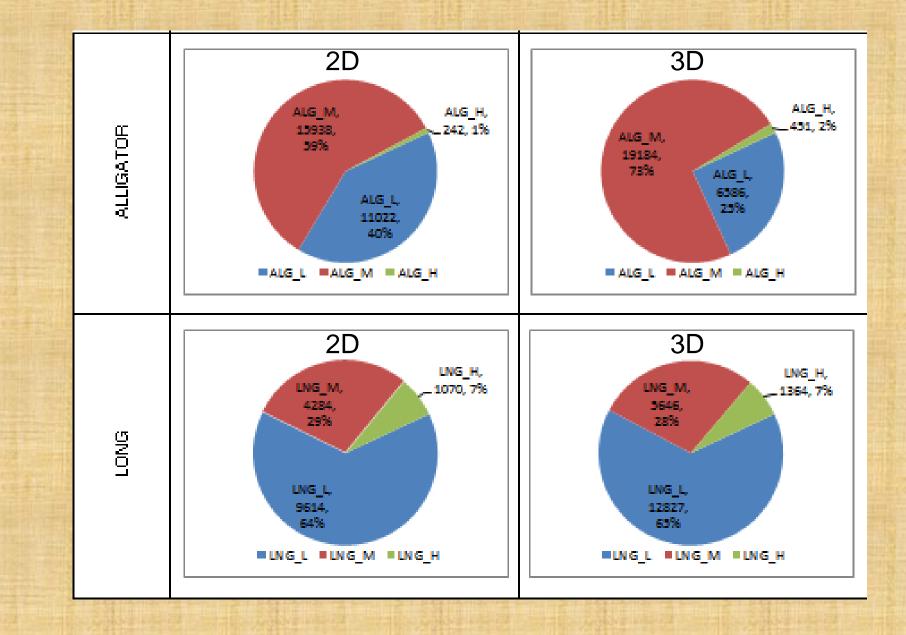
Overall Distress Findings

- 11% More total cracking detected in 3D vs. 2D
- Separate Rating Schemes needed for 3D Composite vs. Flexible
- Composite Sites
 - More cracking detected with 3D on these control sites
 - Much more manual Intervention needed for 2D
- Asphalt Sites
 - Similar amounts of cracking seen with 2D and 3D
 - Highly distressed section (Site 13) saw some differences with rating and bins
 SUMMARY

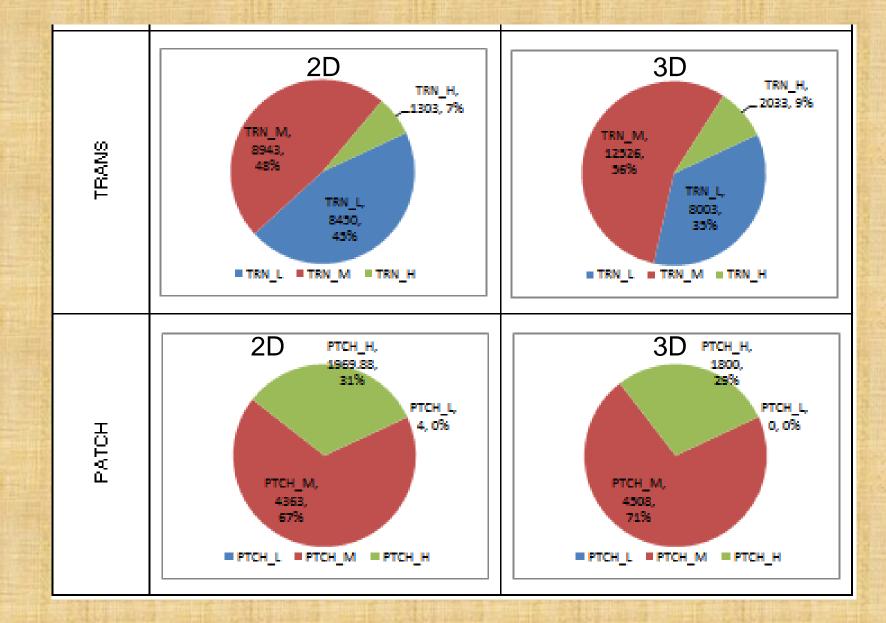
JUIVIIVIANT			
	LRMS - 2D	LCMS - 3D	DIFF
Total Miles	4.489	4.489)
CSECTs	9	ç)
LRS_IDs	8	8	3
ALG	27,202.00	26,221.00	-3.6%
LNG	14,968.00	19,837.00	33%
TRN	18,696.00	22,562.00	21%
РАТСН	6,472.44	6,307.89	-3%
ALL	67,338.44	74,927.89	11%

Overall Severity Bins by Distress Type

Alligator & Longitudinal Cracking

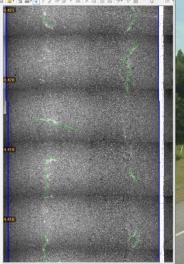


Transverse and Patching



Site 5 – Longitudinal Cracking Difference

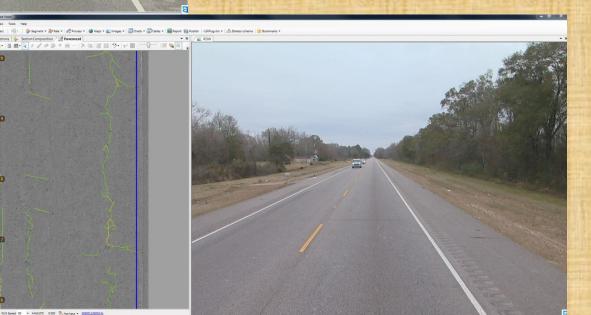
Ter Ver toor mep © General Se⁺ (¹) Segment ≫ hes + (²/stress + (²) Haps + ²/stress + (²) Cons + (²/stress + (²





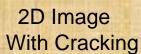
Left – 2D image showing a small amount of mostly manually rated longitudinal cracking

Right – 3D range image showing a considerable amount of more cracking detected compared to the 2D image above



Site 3 –Composite Cracking Difference

2D Image No Cracking 2D



3D Range Image No Cracking 3D

3D Range Image With Cracking

Site 13 – Alligator Severity Difference

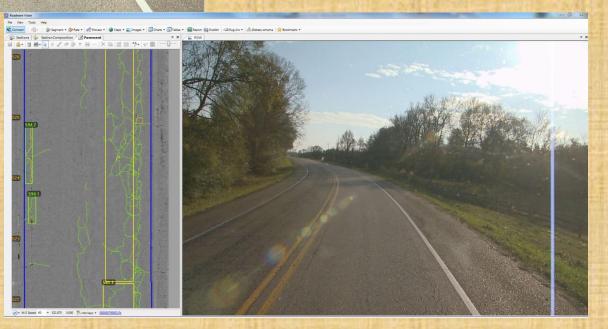
Die View Tools He

Connect | 🔄 - | 🏂 Segment + 🎯 Ras + | 🚓 Pacess + | 💩 Maps + 🔤 Images + | 🏹 Cham + 💭 Tables + | 🗮 Report || Scholin | - D Papelins + || 🚠 Dissus schema | D Sections | 💁 Section Connections 71 - Revenuest | 💦 🖌 X | / 🖅 Brow

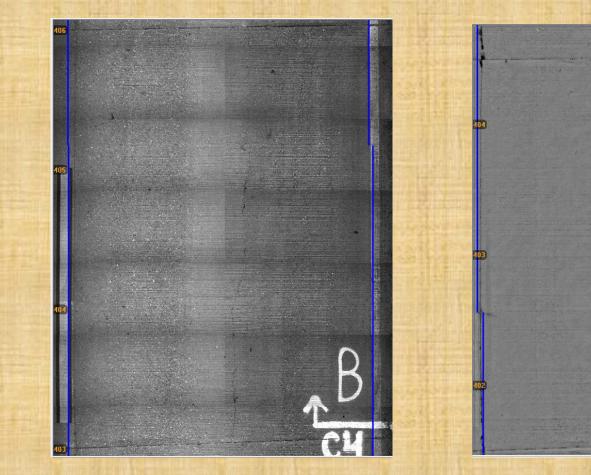


Left – 2D image showing low severity cracks in the RWP with the resulting density causing it to be rated as low severity Alligator

Right – 3D range image showing more low to moderate cracking in the RWP with the resulting higher density causing it to be rated as moderate severity Alligator



Site 4 – Longitudinal Severity Difference 2D 3D



Faint Longitudinal Crack that was rated as low severity

3D Range image shows that this same crack is a moderate severity crack (larger width)

Site 3 – Transverse Cracking Difference

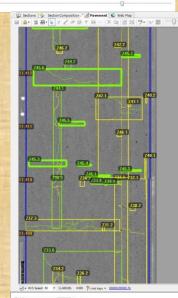
File View Tools Help

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Left – 2D image showing an overall smaller amount of cracking and transverse cracks

Right – 3D range image showing a considerable amount of more cracking detected compared to the 2D image above



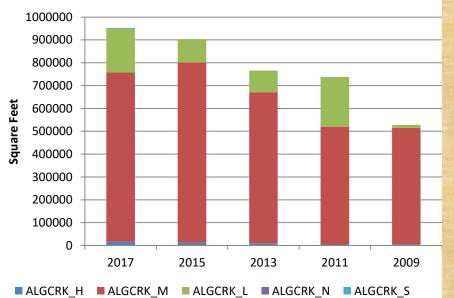
DPSQL02/SANDBOX 📵 65032LA34, ARAN48, Controls, Scenario3 🚵 Bank Workspac



2D vs 3D Conclusion from Test Site

- Longitudinal Cracking proportions of severity similar
- Transverse and Alligator proportion of severity not similar, tends toward more sever
- 3D detected for More Longitudinal and Transverse Cracking
- Decided to create a new category of cracking no deduct for cracks that weren't visible to 2D because they were to small

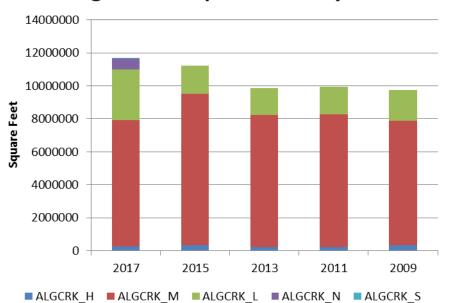
2D vs 3D Pilot Alligator on Asphalt



Alligator on Asphalt Pilot

Asphalt Alligator Cracking The totals look reasonable. Looks like slight amount of Low needs to be in Medium category.

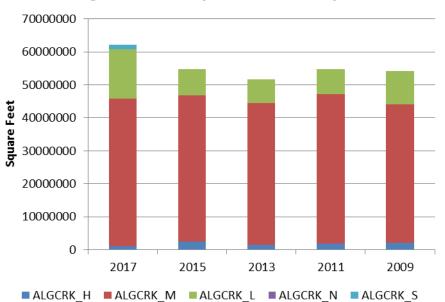
2D vs Delivery 1-3 Alligator on Asphalt



Alligator on Asphalt Delivery 1-3

Asphalt Alligator Cracking The totals look reasonable. Looks like slight amount of Low needs to be in Medium category.

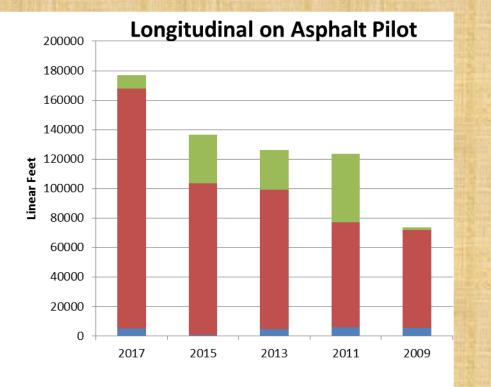
2D vs Delivery 4-6 Alligator on Asphalt



Alligator on Asphalt Delivery 4-6

Asphalt Alligator Cracking Totals this year look a little higher compared to the last 2 cycles up 11.9% instead of 5.7%. Looks like there needs to be less low and more medium based on past trends.

2D vs 3D Pilot Longitudinal on Asphalt

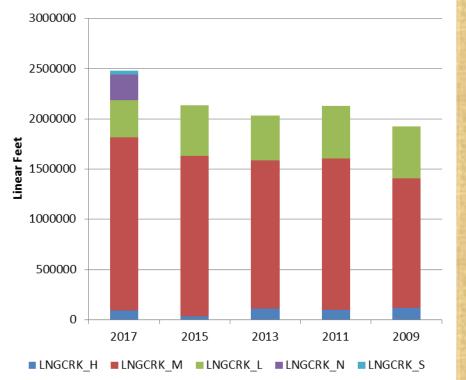


■LNGCRK_H ■LNGCRK_M ■LNGCRK_L ■LNGCRK_N ■LNGCRK_S

Asphalt Longitudinal cracking looks high compared to previous 3 cycles and looks like more medium needs to be called Low.

2D vs Delivery 1-3 Longitudinal on Asphalt

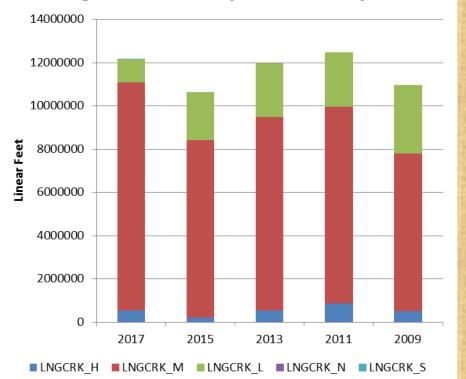
Longitudinal on Asphalt Delivery 1-3



Asphalt Longitudinal cracking All values look reasonable compared to trends of past.

2D vs Delivery 4-6 Longitudinal on Asphalt

Longitudinal on Asphalt Delivery 4-6



Asphalt Longitudinal cracking Total cracking looks like it could be alright compared to previous cycle and looks like more medium needs to be called Low.

2D vs 3D Pilot

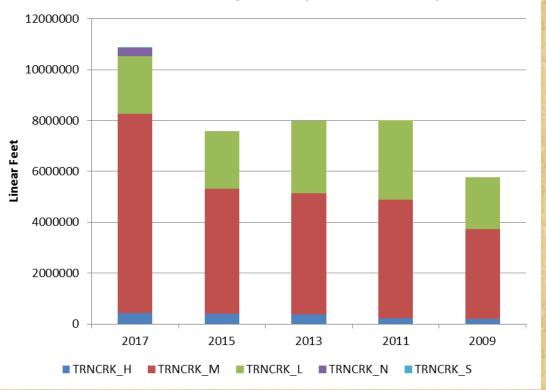
Transverse Cracking on Asphalt Pilot

Linear Feet ■ TRNCRK_H ■ TRNCRK_M ■ TRNCRK_L ■ TRNCRK_N ■ TRNCRK_S

Asphalt Transverse Cracking totals look a lot higher than past so we are probably finding cracks that we didn't count in past which means we need more cracks in no distress category. The high severity cracking has increased a lot more than expected so, more should be counted as medium.

2D vs 3D Delivery 1-3

Transverse Cracking on Asphalt Delivery 1-3



Asphalt Transverse Cracking Totals look a lot higher than past so we are probably finding cracks that we didn't count in past which means we need more cracks in no distress category as well as some medium to low category.

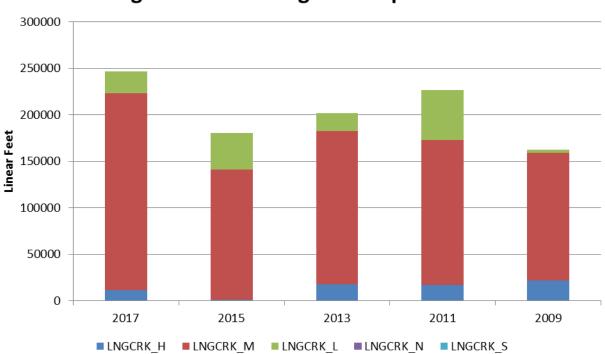
2D vs 3D Delivery 4-6

■ TRNCRK_H ■ TRNCRK_M ■ TRNCRK_L ■ TRNCRK_N ■ TRNCRK_S

Transverse Cracking on Asphalt Delivery 4-6

Asphalt Transverse Cracking Totals look a <u>little</u> less than last 2 cycles. Proportions in past have always tended toward more Medium than Low. It is close to 5% change, so, if other deliveries are close to 5% the **cracking total** should be acceptable.

2D vs 3D Pilot



Longitudinal Cracking on Composite Pilot

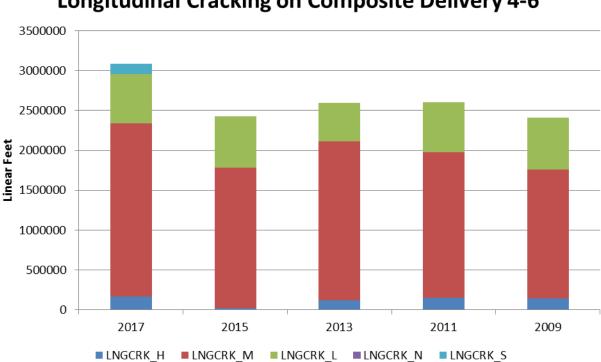
Composite Longitudinal Cracking, the previous years are not consistent enough to make a decision on what to change.

2D vs 3D Delivery 1-3

Longitudinal Cracking on Composite Delivery 1-3 Linear Feet LNGCRK H ■LNGCRK M ■LNGCRK L ■LNGCRK N ■LNGCRK S

Composite Longitudinal Cracking, Looks reasonable, the previous years are not consistent enough to make a decision on if this needs to change.

2D vs 3D Delivery 4-6



Longitudinal Cracking on Composite Delivery 4-6

Composite Longitudinal Cracking, The current cycle seems higher than the previous delivery. The previous cycles are not consistent but are at least within one Y graph range. The increase in cracking is a 21.4% increase when I was hoping at the most a 5% increase.

2D vs 3D Pilot

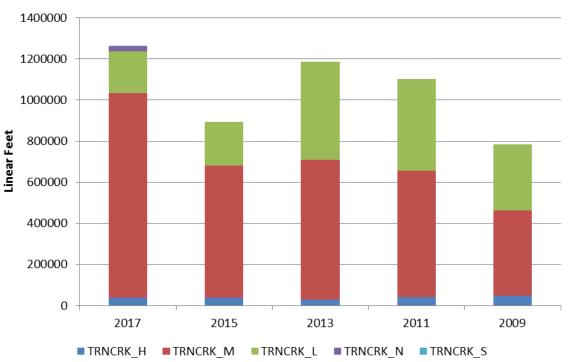
Linear Feet TRNCRK H TRNCRK M TRNCRK L TRNCRK N TRNCRK S

Transverse Cracking on Composite Pilot

Composite Transverse Cracking, Looks like the total cracking is a lot higher than previous years but the previous years are not consistent (level of cracking going down) but doubling from last year's numbers.

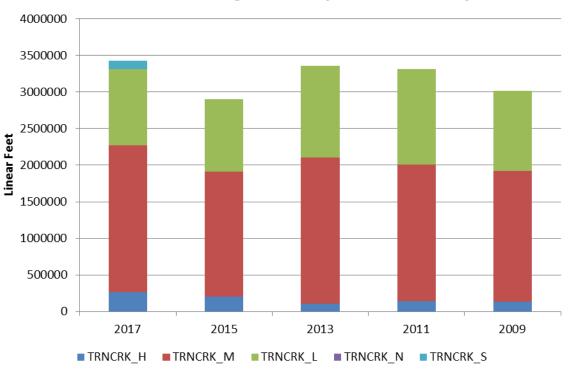
2D vs 3D Delivery 1-3

Transverse Cracking on Composite Delivery 1-3

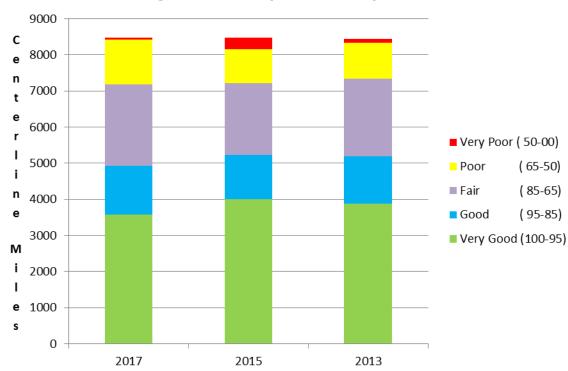


Composite Transverse Cracking, Looks reasonable compared to 2013 and 2011 but not to 2015 If we believe 2015 or questionable then it might be fine but if we believe 2015 is correct then more would have to be put in no distress range as well as medium moved to low severity range.

Transverse Cracking on Composite Delivery 4-6



Composite Transverse Cracking, This delivery total looks a lot higher (15.5% increase) than the previous totals but consistent with 2013 and 2011. Since it is consistent with more years than not we believe it possible could be acceptable if more deliveries show the same trend.



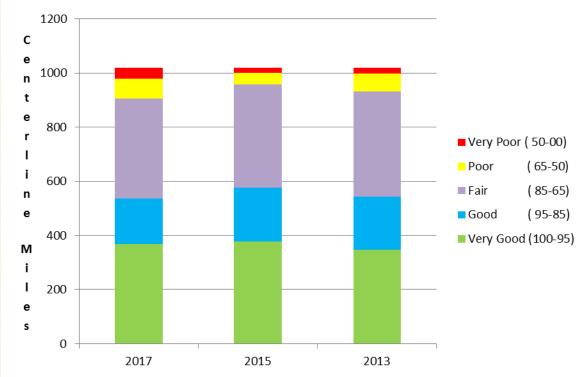
Alligator on Asphalt Comparison

Alligator on Asphalt Comparison Goodness Ranges (Based on Collector Ranges) 2017 3D looks very similar to ranges for 2013 and 2015 2D on mileage except the Very Poor and Poor ranges



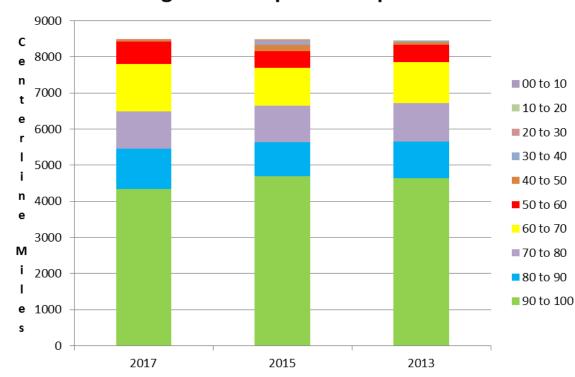
Random on Asphalt Comparison

Random on Asphalt Comparison Goodness Ranges (Based on Collector Ranges) 2017 3D looks very similar to ranges for 2013 and 2015 2D on mileage except the Very Poor and Poor ranges



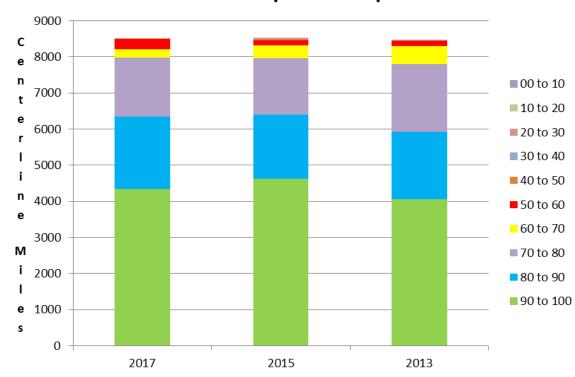
Random on Composite Comparison

Random on Composite Comparison Goodness Ranges (Based on Collector Ranges) 2017 3D looks very similar to ranges for 2013 and 2015 2D on mileage except the Very Poor and Poor ranges



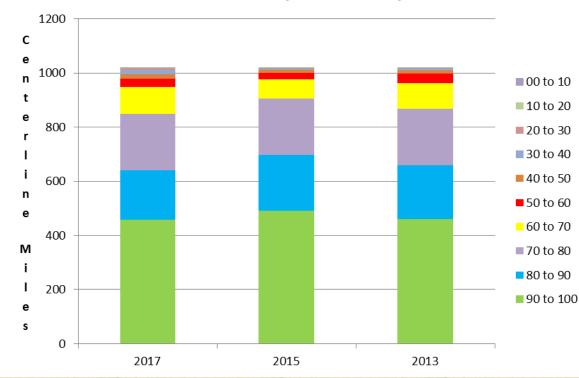
Alligator on Asphalt Comparison

Alligator on Asphalt Comparison Goodness Ranges (Based on Collector Ranges) 2017 3D looks very similar to ranges for 2013 and 2015 2D on mileage except below 50-0 range which is the Very Poor range on the Goodness.



Random on Asphalt Comparison

Random on Asphalt Comparison Goodness Ranges (Based on Collector Ranges) 2017 3D looks very similar to ranges for 2013 and 2015 2D on mileage with very slight differences.



Random on Composite Comparison

Random on Composite Comparison Goodness Ranges (Based on Collector Ranges) 2017 3D looks very similar to ranges for 2013 and 2015 2D on mileage except the Very Poor and Poor is a lot higher than 2015 but closer to ranges for 2013

2D vs 3D Conclusion 2017 Collection

- Composite Longitudinal Cracking and Alligator bin levels need to be retested to see if we can get cracking totals closer to historic values by putting some distress values in to no distress category and get poor severities closer to historic trends
- The index ranges seem to have the same % proportion of severity levels except the poor and very poor ranges. So, believe it shouldn't effect our deterioration ranges.

FAULTING

MAP-21 Future Pavement Objectives & Measures

- PM2 Required Pavement Performance Measures
 - Faulting
 - Good < 0.10 inches</p>
 - Fair >= 0.10 & <= 0.15 inches</p>
 - Poor > 0.15 inches
 - 30 inch Wheel Path (AASHTO R36-13)
 - Right Wheel Path Only
 - AASHTO References
 - R36-13
 - Method A (LADOTD Requires)
 - Method B very strongly advised against this

MAP-21 Future Pavement Objectives & Measures

	Total Faults 3266		Real Time	Post Proc.	1mm min	No Minimum	# of Joints	New Average
	% Faults 0.0	1.8%	Min 0.1 inch	Min 0.1 inch	Threshold	Tied To Joints	With No	With 0 faults
			FALT_AVG_RT	FALT_AVG_PP	FALT_AVG_PP	FALT_AVG_PP	Faulting	FALT_AVG_PP
Miles	6.057 Average		0.105	0.028	0.048	0.011	58	0.011
	Faultin	g < 0.05	24	52	28	62		62
Counts	Faulting	0.05 - 0.15	22	7	32	0		0
	Faultin	g > 0.15	16	3	2	0		0
	# of 0.1 mil	e segments	62	62	62	62		62
	Faultin	g < 0.05	38.7%	83.9%	45.2%	100.0%		100.0%
Percent	Faulting	0.05 - 0.15	35.5%	11.3%	51.6%	0.0%		0.0%
	Faultin	g > 0.15	25.8%	4.8%	3.2%	0.0%		0.0%

Goodness Ranges Using New FEDERAL Ranges

											-	IN	IERS	IA			
2 SURFACE_TYPE	GOODNESS_OVERALL		SumofLENG TH	GOODNESS_RUT		GOODNESS_ROUGHNESS		GOODNESS_CRACKING		GOODNESS_FAULTING		STRUCTURE_TYPE		SURFACE_TYPE	GOODNESS_OVERALL		SumOfLENG TH
2	FAIR			GOOD		GOOD		POOR					Printing 1	5 5 5 7	FAIR		1.
2	FAIR		0.1			POOR	0.1						21.05	5	FAIR		26.
2	FAIR			GOOD		FAIR		FAIR					1 - 6 26	5	GOOD		3.
2 2 2 2 2 2 2 2	FAIR		0.3			FAIR		POOR	0.3				S SAL	7	FAIR		0. 0.
2	FAIR			FAIR		GOOD							MI (689 14)	7 7 7	FAIR		0.
2	FAIR		1.1		1.1	FAIR		GOOD						7	FAIR		0.
2	FAIR		1.2		1.2	FAIR		FAIR						7	FAIR		0.
2	FAIR		1.32			POOR	1.32							7	FAIR		0.
2 2 2 2 2	FAIR		2.06			GOOD		FAIR					and the second se	7	FAIR		0.
2	FAIR			FAIR		FAIR		FAIR						7 7	FAIR		0.
2	FAIR		3.1			FAIR		GOOD						7	FAIR		0.
2	FAIR			POOR	3.592	GOOD		FAIR					2 0.57	7 7	FAIR		0.
2	FAIR		14.952			FAIR		GOOD					1	7	FAIR		1.12
2	FAIR				15.1	GOOD		GOOD					10 10 10 10 10 10 10 10 10 10 10 10 10 1	7 7	FAIR		1.
2 2 2	FAIR		15.4			GOOD		POOR	15.4				W1 630 14	7	FAIR		1.66
2	FAIR		43.272			GOOD		FAIR					a strept a	7 7	FAIR		4.
2	FAIR		407.862			GOOD		GOOD					BERN	4	FAIR		4.
2	GOOD		40.692			GOOD		GOOD					1 明月前日	¥-	FAIR		5.
2	POOR	0.1	0.1		0.1	POOR	0.1	FAIR						6	FAIR		5.
2	POOR	0.124	0.124		0.124		0.124	GOOD					120 121	6	FAIR		6.5
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2 2 2 3 3	FAIR		0.2			FAIR				GOOD		_	2 1.44	7 7 7 7 7 7	FAIR		
	FAIR		0.2			POOR	0.2	C000		FAIR		_	I State	5	FAIR		15.36 30.
3 3	FAIR FAIR		2.3			GOOD POOR	2.7	GOOD		FAIR GOOD				7 7	FAIR		193.85
6	FAIR		14.716			FAIR	2.1	GOOD		POOR	14.72	_	M(4394)	7	GOOD		195.85
3 3	FAIR		16.984			POOR	16.98			FAIR	14.72	_	a strette	7	POOR	0.1	0.
3	FAIR		38.696		<u> </u>	POOR	38.7	GOOD		GOOD				7	POOR	0.1	0.
	FAIR		64.804			FAIR	30.7	GOOD		FAIR		_	1. 1011年美国社	7	POOR	0.2	0.
3	FAIR		287.546			FAIR		GOOD		GOOD				7	POOR	0.2	0.
3	GOOD		126.6		<u> </u>	GOOD		GOOD		GOOD				7	POOR	2	
3	POOR	0.1	0.1			POOR	0.1	0000		POOR	0.1			7	POOR	2.7	2
3	POOR	15.08	15.08		<u> </u>	POOR	15.08	GOOD		POOR	15.08		2 Page			21.1	1508.8
5	TOON	10.00	10.00		L	1000	15.00	3000		.000	15.00	_	and the second second				100.0

	IE											
SURFACE_TYPE	GOODNESS_OVERALL		SumOfLENG TH	GOODNESS_RUT		GOODNESS_ROUGHNESS		GOODNESS_CRACKING		GOODNESS_FAULTING		STRUCTURE_TYPE
5	FAIR		1.6			POOR	1.6	GOOD				
5	FAIR		26.7			FAIR		GOOD				
5	GOOD		3.8			GOOD		GOOD				
	FAIR			GOOD		FAIR						
7	FAIR			GOOD		GOOD		POOR	0.1			
7	FAIR			FAIR		FAIR						
7	FAIR			FAIR		POOR	0.2					
7	FAIR			GOOD		FAIR		FAIR				
7	FAIR			FAIR		POOR	0.4					
7	FAIR			GOOD		POOR	0.4	GOOD				
7	FAIR			FAIR		GOOD						
7	FAIR			GOOD		GOOD		FAIR				
7	FAIR		1.124	GOOD		FAIR		GOOD				
7	FAIR			FAIR		FAIR		POOR	1.668			
7	FAIR		1.668			POOR	1.668	GOOD				
7	FAIR		4.4	POOR	4.4	FAIR		FAIR				
7	FAIR			POOR	4.9	FAIR		GOOD				
7	FAIR			FAIR		FAIR		FAIR				
7	FAIR			POOR	5.9	GOOD		FAIR				
7	FAIR		6.52	GOOD		POOR	6.52					
7	FAIR		10	FAIR		GOOD		POOR	10			
7	FAIR		11		11	GOOD		GOOD				
7	FAIR		15.368	FAIR		FAIR		GOOD				
7	FAIR			FAIR		GOOD		FAIR				
7	FAIR		193.856			GOOD		GOOD				
7	GOOD		52.5	GOOD		GOOD		GOOD				
7	POOR	0.1	0.1		0.1	POOR	0.1					
7	POOR	0.1	0.1	POOR	0.1	POOR	0.1	GOOD				
7	POOR	0.2	0.2	POOR		POOR	0.2	POOR	0.2			
7	POOR	0.4	0.4	POOR	0.4	POOR	0.4	FAIR				
7	POOR	2		POOR	2	GOOD		POOR	2			
7	POOR	2.7	2.7	POOR	2.7	FAIR		POOR	2.7			
		21.1	1508.84		53.12		86.99		32.57		29.9	
		1.40%			3.52%		5.77%		2.16%		1.98%	

INTERSTATE

NON-INTERSTATE NATIONAL HIGHWAY SYSTEM

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		OVERALL			_		ROUGHNE	CRACKING		FAULTING		ш			ERALL				UGHNE	CRACKING		GOODNESS_FAULTING		щ
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4		FAIR			GOOD		FAIR FAIR	FAIR						3	FAIR		1.1	_	GOOD	1.1		FAIR		
2		FAIR			GOOD		FAIR	GOOD						ა ^	GOOD POOR	17	116.4 1.7	_	POOR	17 GOOD		GOOD POOR	17	
5		FAIR			GOOD		FAIR	POOR	1.2				A REAL PROPERTY.	5	POOR	0.2	0.2		POOR	0.2 FAIR		POOR	0.2	+
2		FAIR			POOR	0.1	FAIR	1.0011					L DECIT	3	POOR	124.5	124.51		POOR	124.509 GOOD		POOR	124.5	+
2		FAIR			GOOD		GOOD	FAIB						5	FAIR		1.7		POOR	1.7 GOOD				
2		FAIR			GOOD		GOOD	POOR	0.8				1 4 1 K 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5	FAIR		6.6		FAIR	GOOD				
2		FAIR			GOOD		POOR	0.7					1	5	GOOD		8.3		GOOD	GOOD				
2		FAIR			GOOD		POOR	1.9 FAIR					NI 658 11 64	7	FAIR		76.588 FAIR		GOOD	FAIR				
2		FAIR			GOOD		POOR	3.696 GOOD					THE REAL PROPERTY.	7	FAIR		0.2 FAIR		GOOD					
2		FAIR			GOOD		GOOD							7	FAIR		39.433 FAIR		FAIR	POOR	39.43			
2		FAIR			FAIR		FAIR						THE R. LEWIS	7	FAIR		144.63 FAIR		FAIR	GOOD				
2		FAIR		73.65		2.104		FAIR						7	FAIR		117.94 FAIR		FAIR	FAIR				
2		FAIR		62.016		19.28		GOOD	00.54				The second second	7	FAIR		2.2 FAIR 18.974 GOC		FAIR	FAIR				+
2		FAIR		32.512		31.58	GOOD	POOR	32.51					י ל	FAIR		0.4 POC			FAIR				
4		FAIR		87.653 8.628				FAIR 8.628 GOOD					States and Street	<u>-</u>	FAIR		50.544 GOC		FAIR	GOOD				
2		FAIR		153.02			POOR GOOD	6.626 GOOD						<u>.</u>	FAIR		1.576 GOC		FAIR	POOR	1.576			
6		FAIR		30.76			GOOD	POOR	30.76					7	FAIR		1.6 GOC		GOOD	10011				+
2		FAIR			FAIR		POOR	0.38	30.10				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	FAIR		20.8 GOC		GOOD	FAIR				
2		FAIR		16.792			POOR	16.792 FAIR					1.22.20	7	FAIR		1.3 GOC		GOOD	POOR	1.3			
2		FAIR			FAIR		GOOD						11 (330] 4 (2)	7	FAIR		13.6 POC	IR 13	6 GOOD	FAIR				
2		FAIR			POOR		GOOD	GOOD						7	FAIR		20.179 POC		18 FAIR	GOOD				
2		FAIR		27.064		27.06		FAIR						7	FAIR		4.3 GOC		POOR	4.3				
2		FAIR		15.124	POOR	15.12	FAIR	GOOD						7	FAIR		4.104 GOC		POOR	4.104 FAIR				
2		FAIR			POOR		GOOD	FAIR						7	FAIR		19.956 POC		36 FAIR	FAIR				
2		GOOD			GOOD		GOOD	GOOD					The second s	7	FAIR		14.192 GOC		POOR	14.192 GOOD				
2		POOR	0.178	0.178			POOR	0.178						/ 5	FAIR		3 FAIR 244.66 FAIR		POOR GOOD	3				
2		POOR	8.364	8.364			GOOD	POOR	8.364					י ל	FAIR		1.5 GOC		FAIR	GOOD				
2		POOR	11.1	11.1		_	POOR	11.1 FAIR						7	FAIR		32.956 FAIR		POOR	32.956 GOOD				+
2		POOR	2,104	2.104			POOR	2.104 GOOD	10.00					7	FAIR		0.5 POC		15 FAIR					+
4		POOR	19.28 31.58	19.28 31.583		19.28 31.58	POOR FAIR	19.28 POOR POOR	19.28 31.58				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	FAIR		24.188 FAIR		GOOD	POOR	24.19			
5		POOR	6.459	6.459		31.30	POOR	6.459 POOR	6.459				1.5.5.1	7	FAIR		17.596 POC		.6 GOOD	GOOD				
2		FAIR	0.433	99.894			POOR	99.894 GOOD	0.433	GOOD			In confile and	7	FAIR		42.14 FAIR		POOR	42.14 FAIR				
1		FAIR		107.17			POOR	107.169 GOOD		FAIR				7	GOOD		230.01 GOC	0	GOOD	GOOD				
3		FAIR		0.9			FAIR			GOOD				7	POOR	25.93	25.928 POC		33 FAIR	POOR	25.93			
3		FAIR		0.1			FAIR	FAIR		GOOD				7	POOR	9.944	9.944 POC	_	44 POOR	9.944 GOOD				
3		FAIR		35.532			FAIR	GOOD		FAIR				7	POOR	5.768	5.768 POC		68 GOOD	POOR	5.768			
3		FAIR		195.99			FAIR	GOOD		GOOD				7	POOR		27.864 POC		B6 POOR	27.864 POOR	27.86			$ \longrightarrow $
3	l	FAIR		8.673			FAIR	GOOD		POOR				י ל	POOR POOR	20.54	20.537 FAIR 24.912 POC		POOR 91 POOR	20.537 POOR 24.912 FAIR	20.54			
3		FAIR		0.784			POOR	0.784		GOOD					POOR	24.91	1.9 POC		I.9 POOR	24.912 FAIR				
3		FAIR		0.8			GOOD	GOOD		FAIR				7	POOR	0.5	0.5 GOC		POOR	0.5 POOR	0.5			+
3		FAIR		0.1			POOR	0.1 FAIR		GOOD			CHARLES THE	1	1004		2917.3	57	_	594.722	278.1		126.4	
3		FAIR		0.2			GOOD	GOOD		POOR			and the party of the			11.07%	2011.0	19.6		20.39%	9.53%		4.33%	
	2.2							A REPORT OF THE REPORT OF T			and the second					1.017		15.0		20.007	0.00%		4.00%	

Any Questions about Presentation???

Chris Fillastre: Pavement Management EngineerE-mail: Christophe.Fillastre@la.govPhone Number: 3-4577 or (225) 242-4577