

A web-based pavement design app

Housekeeping



You can find these slides on the MEAPA website

https://paveapps.com/meapa/



You will get a recording of this session by email



Click on the 🔜 icon and ask your questions to the panelists

Webinar objectives



Introduce MEAPA and some of its features



Provide a quick user guide



Access from any web browser

- Google Chrome is recommended
- Smartphone
- iPad/tablet
- Other handheld device
- No installation
- All data is saved in the cloud

https://paveapps.com/meapa/

MEAPA Webinar

M. Emin Kutay, Ph.D., P.E. Professor Department of Civil and Environmental Engineering Michigan State University



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Initial page



Initial page

Please make sure to go through the video tutorials.





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	Unit Weight (lb/ft3)	150.0	Thermal Conductivity (K) (btu/(hr*ft*F))	0.67				
	Air Voids (%)	7.0	Indirect Tensile Strength @ 14F (-10C) (psi)	461.7				
	Effective Binder Content by Volume (%)	10.0	Reference Temperature for E* Master Curve (F)	70.0				



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ee un Data < < @	Mixture dynamic Temp/Freq 25.0 Hz 14.0 F 321989	modulus (E*) 10.0 Hz 5.0 306388	and phase angle Dynamic Modulus 1.0 Hz 5.0 2620710.0	IE* (psi) 0.1 Hz 2119187.0	Curve (F)	Copy entire Ph Paste entire Enter E* n 6.: Select E* 5 k (table table table table table table	coefficie	ents	
ee un Data < ¢ ©	Temp/Freq 25.0 14.0 321989 F 40.0 215981 F 215981 215981	10.0 (E*) Hz 5.0 306388 1.0 1951706	Indext Indext <thindex< th=""> <thindex< th=""> Index</thindex<></thindex<>	IE*1 (<i>psi</i>) 0.1 Hz 2119187.0 952944.0	Curve (F) 25.015 5.5 11.5	Copy entire Ph Paste entire Enter E* m 6.; Select E* 12	table table aster curve c from the datal	coefficie base eratures	ents	
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Detail	AC (4E3 PG64-22)												
nt Profile	Identifier		AC (4E3 F	PG64-22)		Poisson's Rat	io		0.25				
class s	Layer Thickness	(in)		4.0		Heat Capacity	/ (C) (btu/(lb*F)		0.23				
ads <	Unit Weight (lb/ft	t3)		150.0		Thermal Conc	luctivity (K) (bt	u/(hr*ft*F))	0.67				
ed Coefficients	Air Voids (%)			7.0		Indirect Tensi (psi)	le Strength @ 1	4F (-10C)	461.7				
	Effective Binder (Content by Volum	ne (%)	10.0		Reference Ter	mperature for I	* Master	70.0				
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MEAPA = PROJECT meminkutay	T : 1131_Sta122-149 Laboratory-measured E* database (4E3 PG64-22) Select HMA/WMA [481 EE20 /0 Emm)PC64.22 MUUS	DAV/EMENT PROFILE		
 Vehicle Class Distributions Axle Loads Advanced Coefficients Advanced Coefficients Analyze Last Run Data Help K 	Identifier 482, 3E30 (19mm)PG64-28, MI,US Layer Thickness (i) 483, 4E30 (12.5mm)PG70-28P, MI,US Unit Weight (lb/ft3 486, 4E10 (12.5mm)PG64-28, MI,US Vinit Weight (lb/ft3 486, 4E10 (12.5mm)PG64-28, MI,US Air Voids (%) 486, 4E10 (12.5mm)PG64-28, MI,US Effective Binder Ct 480, 4E10 (12.5mm)PG70-28P, MI,US 489, 5E10 (9.5mm)PG64-28, MI,US 489, 5E10 (9.5mm)PG70-28P, MI,US 490, 4E10 (12.5mm)PG70-28P, MI,US 490, 4E10 (12.5mm)PG70-28P, MI,US 491, 5E10 (9.5mm)PG70-28, MI,US 493, 3E3 (19mm)PG58-22, MI,US 493, 3E3 (19mm)PG58-28, MI,US 494, 3E3 (19mm)PG64-28, MI,US 494, 4E3 (12.5mm)PG64-28, MI,US 496, 4E3 (12.5mm)PG64-28, MI,US	MEAPA in E* valu Simply se the one y E* table measured	cludes a datal es for many m lect a mixture ou're designin e will be popu d data	base of measured nixtures. that is closest to ng for, and MEAPA lated with
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Project Detail	AC (4E3 PG64	1-22)											
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Vehicle Class stributions	Layer Th	ickness (in)		4.0		Heat Capacity	(C) (btu/(lb*F))		0.23				
Axle Loads <	Unit Wei	ght (lb/ft3)		150.0		Thermal Condu	uctivity (K) (btu/	(hr*ft*F))	0.67				
Advanced Coefficients	Loaded E'	* data is	showr	n with di	fferent	ndirect Tensile 'psi)	e Strength @ 14F	(-10C)	461.7				
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Project Detail		Identifie	er	AC (4E3	3 PG64-22)		Poisson's Ra	tio		0.25					
		Layer T	hickness (in)		4.0		Heat Capaci	t y (C) (btu/(lb*)	F))	0.23					
		Unit We	ight (lb/ft3)		150.0		Thermal Con (btu/(br*ft*F)	ductivity (K)		0.67					
venicle Class Distributions		Air Void	s (%)		7.0		Indirect Tens	íle Strength @	14F						
Axie Loads <	F*	is extens	sively us	ed thro	ughout	the	(-10C) (psi)	mnarature for	15*1	461.7					
Advanced Coefficients	algori	ithms (st	ructural	analysi	is etc.)	the	Master Curve	e (F)	15.1	70.0					
네 Analyze	01801	(00		anaryo											
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	crack	ing mod	el				4.7	5.6	8.3	11.7					
		40.0 F	1994293.0	1793233.0	1287706.0	830495.0	11.3	12.8	17.0	21.4					
		70.0 F	873401.0	712951.0	391832.0	190399.0	21.0	22.8	27.0	30.6					
		130.0 F	78448.0	55430.0	22865.0	9721.0	33.0	33.5	33.7	32.2					
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Project Datail	Identifier		AC (4E3	PG64-22)		Poisson's Ra	tio	0.25		
	Layer Thi	ckness (in)		4.0		Heat Capaci	ty (C) (btu/(lb*F))	0.23		
	Unit Weig	jht (lb/ft3)		150.0		Thermal Con (btu/(hr*ft*F)	ductivity (K)	0.67		
Venicle Class Distributions	Air Voids	(%)		7.0		Indirect Tens	sile Strength @ 14F			
Axle Loads <	Effective	Binder Content	by Volume			(-10C) (psi)	-	461.7		
Advanced Coefficients	(%)			10.0		Reference Te Master Curve	emperature for E* e (F)	70.0		
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	Effective	there are no	o duplicate ter	nperatures.			voraturo for	15*1					
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	14.0	Hz	Hz	Hz	Hz	47	5.6	8.3	11.7				
	F	2965651.0	2840894.0	2422025.0	1940041.0	4.7	5.0	0.5	11.7				
	40.0 F	1994293.0	1793233.0	1287706.0	830495.0	11.3	12.8	17.0	21.4				
	70.0 F	873401.0	712951.0	391832.0	190399.0	21.0	22.8	27.0	30.6				
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		Temp	G* (Pa) at 10 rad,	s Phase angle (d	degrees) at 10 rad/s				
		40.0 F	1.641803E7	56.0					
		70.0 F	2377859.0	58.7					
		100.0 F	207206.0	60.9					
		130.0 F	19922.0	62.6					
		168.0 F	2503.0	63.9					
	Mechanistic Empirical Asphalt P	avement Analysis							


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ŕ				Dyna	mic Modulus E*	(psi)		Phase angle (d	legrees)	
T Project Detail		Temp/Freq	25.0	10.0	1.0	0.1	25.0Hz	10.0Hz	1.0Hz	0.1Hz
📚 Pavement Profile		14.0	Hz	Hz	Hz	Hz	4.0	5.0	0.7	12.4
		F	2841067.0	2714442.0	2336971.0	1664137.0	4.0	5.6	0.7	12.4
Venicle Class Distributions		40.0 F	1958536.0	1766414.0	1271775.0	814106.0	11.8	13.4	17.7	22.1
🛕 Axle Loads 🛛 <		70.0	875239.0	711895.0	384531.0	182089.0	21.5	23.1	26.9	29.4
Advanced Coefficients		130.0	75592.0	53152.0	22018.0	9688.0	30.4	30.3	28.8	25.8
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			40	0.0	1.641803	7	56.0	.grees, at to taa,s	Sole	ct IG*I from the datab
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			F	5.0	2077000.		00.7			
			10 F	0.0	207206.0		60.9			
			13	30.0	19922.0		62.6			
			16	58.0	2503.0		63.9			
			F							
				E	0*1	1				
			used in	n Global Aging S	/stem (GAS) mode	el. GAS model w	ill be turned off	nd phase angle are when G* = 0.	e only	
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MEAPA		Sta122-149 ~								
meminkutay		Laboratory-measured G* database	×	_						
Project Detail				hase angle (e	degrees)					
Project Detail	Temp/Freq	Select PG		10.0Hz	1.0Hz	0.1Hz				
Pavement Profile	14.0	PG58-22		5.8	8.7	12.4				
Vehicle Class Distributions	40.0	PG58-28 PG58-34		13.4	17.7	22.1				
🔺 Axle Loads 🛛 🔍	F 70.0	PG64-22 PG64-28		23.1	26.9	29.4				
Advanced Coefficients	F 130.0	PG64-34P		30.3	28.8	25.8				
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The equation above represents the $|E^*|$ master curve of the EAC layer in its undamaged state. Effect of damage on the $|E^*|$ master curve is modeled through the following relationship:

$$|E^*|_{\text{damaged}} = 10^{c_1} + \frac{|E^*|_{\text{undamaged}} - 10^{c_1}}{1 + e^{-0.3 + 5\log(D_{bu}^{EAC}(t))}}$$
[153]

where;

 $|E^*|_{\text{damaged}} = D_{hu}^{EAC}(t) =$







Typical CSM layer modulus is initially quite high. However, as fatigue damage grows within the CSM layer, this modulus decreases with time. Reduction of modulus of CSM layer is modeled using the following relationship:

$$E(t) = E_{min} + \frac{E_{max} - E_{min}}{1 + e^{-4 + 14D_{csm}^{cum}(t)}}$$
[146]









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MEAPA E meminkutay	■ PROJECT :	1131_Sta122-7	149 ~				V	EHICI	E DIST	ribut	IONS			
T Project Detail	Veh	icle Class	Distrib	ution									:	
Pavement Profile	Class													
Vehicle Class Distributions	Name	Class %	Gr	rowth %	Grov	wth Type	# of Single A	xles #	of Tandem Ax	les # of T	ridem Axles	# of Quad A	xles	
	Class 4 Class 5	27.37	3.	.0	con	npound 🗸	2.0	0.	36	0.0		0.0		
Axle Loads <	Class 6	5.01	3.	.0	con	npound 🗸	1.0	1.0)	0.0		0.0		
Advanced Coefficients	Class 7	0.77	3.	.0	line	ar 🗸	1.06	0.	06	0.59		0.35		
	Class 8	4.42	3.	.0	con	npound 🗸	2.28	0.	74	0.0		0.0		
🔟 Analyze	Class 9	45.44	3.	.0	con	npound ¥	1.29	1.4	35	0.0		0.0		
A Last Run Data	Class 11	1.07	3.	0	line	ar V	1.54	1.0	n	0.31		0.56		
				-					-					
	Class 12	0.22	3.	.0	line	ar 🗸	3.85	0.	96	0.0		0.0		
E Help <	Class 12 Class 13 Total =	0.22 6.82 100.0 %	3.	0	line	ar 💙	3.85 2.03	0. 1.4	96	0.0 0.36		0.0 0.61		
E Help <	Class 12 Class 13 Total =	0.22 6.82 100.0 %	3.	0	line	ar 🗸	3.85 2.03	0. 1.4	96 1	0.0		0.0		
E Help < Feedback O Logout O	Class 12 Class 13 Total =	0.22 6.82 100.0 % Monta	3. 3. hly Dist	o o tribution	line line	ar V ar V	3.85	0.	96	0.0		0.0 0.61		
Help < Feedback @ Logout @	Class 12 Class 13 Total =	0.22 6.82 100 0 %	3. 3. hly Dist s Class 4	0 0 tribution Class 5	line line	aar V aar V	3.85 2.03 Class 8	0. 1.4 Class 9	96 1 Class 10	0.0 0.36 Class 11	Class 12	0.0 0.61		
E Help 〈 Feedback ♀ Logout ि	Class 12 Class 13 Total =	0.22 6.82 Monta Month JANUARY	3. 3. hly Dist s Class 4 0.8	0 0 tribution Class 5 0.8	Class 6 0.8	ar v ar v Class 7 0.8	3.85 2.03 Class 8 0.9	0. 1.4 Class 9 0.9	eee Class 10 0.9	0.0 0.36 Class 11 0.87	Class 12 0.87	0.0 0.61 Class 13 0.87		
Help (Feedback @ Logout G	Class 12 Class 13 Total =	0.22 6.82 Monta Month/Clas JANUARY FEBRUARY	3. 3. hly Dist is Class 4 0.8 0.89	0 0 tribution Class 5 0.8 0.89	line line	ar	3.85 2.03 Class 8 0.9 0.95	0. 1.4 Class 9 0.9 0.95	296 1 Class 10 0.99 0.95	0.0 0.36 Class 11 0.87 0.89	Class 12 0.87 0.89	0.0 0.61 Class 13 0.87 0.89		
E Help 〈 Feedback @ Logout P	Class 12 Class 13 Total =	0.22 6.82 Monta Month\Class JANUARY FEBRUARY MARCH APRIL	3. 3. hly Dist is Class 4 0.8 0.89 0.88 0.93	0 0 tribution 0.8 0.8 0.88 0.93	(line line D Factors Class 6 0.8 0.89 0.88 0.93	ar	3.85 2.03 Class 8 0.9 0.95 0.98 1.01	0. 1.4 Class 9 0.9 0.95 0.95 0.98	Class 10 0.95 0.95 101	0.0 0.36 0.38 0.87 0.89 0.88 0.96	Class 12 0 0.87 0.89 0.88 0.96	0.0 0.61 Class 13 0.87 0.88 0.88		
⊟ Help 〈 Feedback ♀ Logout ₽	Class 12 Class 13 Total =	0.22 6.82 Montal Month(Class JANUARY FEBRUARY FEBRUARY MARCH APRIL MAY	3. 3. hly Dist s Class 4 0.8 0.89 0.88 0.93 1.02	0 0 tribution 0.8 0.8 0.88 0.9 0.88 0.93 1.02	(line (line) (li	ar	3.85 2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	Class 9 0.9 0.95 0.98 1.01 1.06	Class 10 0.9 0.95 0.98 1.01 1.06	0.0 0.36 0.38 0.87 0.89 0.88 0.96 0.96	Class 12 4 0.87 0.89 0.88 0.96 0.96 1.05	0.0 0.61 Class 13 0.87 0.89 0.88 0.89 0.86 0.96 0.96		
⊟ Help 〈 Feedback	Class 12 Class 13 Total =	0.22 6.82 CG 0.5 S Month Class JANUARY FEBRUARY MARCH APRIL APRIL MAY	3. 3. hly Dist s Class 4 0.8 0.89 0.88 0.93 1.02 1.14	0 0 tribution 0.8 0.89 0.88 0.93 1.02 1.14	(line line b Factors Class 6 0.8 0.89 0.88 0.93 1.02 1.14	ar	3.85 2.03 2.103 2.105 2.	Class 9 0.9 0.95 0.98 1.01 1.06 1.13	Class 10 0.9 0.95 0.95 0.95 1.01 1.06 1.13	0.0 0.36 0.36 0.85 0.87 0.89 0.88 0.96 1.05 1.17	Class 12 0 0.87 0 0.89 0 0.88 0 0.96 0 1.05 1	0.0 0.61 ** Class 13 0.87 0.89 0.88 0.88 0.86 0.05 1.05		
E Help < Feedback ♀ Logout C+	Class 12 Class 13 Total =	0.22 6.82 CGD 5. MonthClass JANUARY FEBRUARY MARCH APRIL APRIL JUNE JUNE	3. 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	0 0 0 0 0 0 0 0 0 8 0 0 8 0 0 9 0 0 8 0 9 0 0 8 0 0 9 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0	Eline	ar	3.85 2.03 2.03 2.03 2.03 2.05 0.95 0.95 0.95 0.95 0.95 1.01 1.01 1.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03 2	Class 9 0.9 0.95 0.98 1.01 1.06 1.13 0.98	Class 10 0.9 0.95 0.95 0.95 1.01 1.01 1.06 1.13 0.98	0.0 0.36 0.36 0.8 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.9 0.1 0.1 0.1 1.0 1.0 1.0 1.0 1.0	Class 12 0 0.87 0 0.89 0 0.88 0 0.96 0 1.05 0 1.17 1 0.7 0	0.0 0.61 Class 13 0.87 0.89 0.88 0.98 0.98 0.98 1.17 1.17		
Help ∢ Feedback @ .ogout G	Class 12 Class 13 Total =	0.22 6.82 CROPX MonthClass JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY ALGUST	3. 3. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	0 0 tribution Class 5 0.8 0.89 0.89 0.89 0.89 0.83 1.02 1.14 1.18 1.19 1.12	Elass 6 0.8 0.89 0.88 0.93 1.02 1.14 1.18 1.19	ar	3.85 2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	Class 9 0.9 0.95 0.95 1.01 1.06 1.13 0.98 1.08	Class 10 0.9 0.95 0.95 1.01 1.01 1.04 1.13 0.98 1.08	0.0 0.36 0.36 0.87 0.87 0.89 0.88 0.96 0.88 0.96 0.10 1.05 1.07	Class 12 0 0.87 0 0.88 0 0.96 0 1.05 1 1.17 1 0.07 1.1	0.0 0.61 ** Class 13 0.87 0.89 0.88 0.96 0.88 1.17 1.1 1.07 1.1		
∎ Help K Feedback I I I Logout I I I I I I I I I I I I I I I I I I I	Class 12 Class 13 Total =	0.22 6.82 CROPX MonthClass JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER	3. 3. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	0 0 tribution Class 5 0.8 0.89 0.88 0.93 1.02 1.14 1.18 1.19 1.13 1.06	line line Class 6 0.8 0.89 0.88 0.93 1.02 1.14 1.18 1.19 1.13 1.06	ar	3.85 2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	Class 9 0.9 0.95 0.95 1.01 1.06 1.13 0.98 1.08 1.08 1.03	Class 10 0.9 0.95 0.98 1.01 1.03 1.03 1.03 1.08 1.08	0.0 0.36 0.36 0.87 0.89 0.88 0.96 0.88 0.96 0.10 1.05 1.17 1.07 1.1 1.07	Class 12 0 0.87 0 0.88 0 0.96 1 1.05 1 1.17 1 1.07 1 1.1 1.07 1 1.1	0.0 0.61 Class 13 0.87 0.89 0.88 0.96 0.88 0.96 0.105 1.05 1.07 1.17 1.07 1.1		
■ Help 〈 Feedback	Class 12 Class 13 Total =	0.22 6.82 CROP X Month Class JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER	3. 3. 3. 3. 3. 3. 3. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Elass 6 0.8 0.83 0.83 0.93 1.02 1.14 1.18 1.19 1.13 1.06 0.96	ar	3.85 2.03 2.03 2.03 2.03 2.04 2.04 2.04 2.04 2.04 2.04 2.04 2.04	Class 9 0.9 0.95 1.01 1.06 1.13 0.98 1.01 1.06 1.03 1.08 1.08 1.03 1.03	Class 10 0.9 0.95 0.95 0.95 1.01 1.06 1.03 1.03 1.08 1.05 0.98	0.0 0.36 0.36 0.87 0.87 0.89 0.80 0.96 0.10 1.05 1.07 1.1 1.07 1.1 1.07 1.11 1.07	Class 12 0 0.87 1 0.89 0.98 0 0.88 0 0.96 1 1.05 1 1.07 1 1.17 1 1.07 1 1.11 1 1.01	0.0 0.61 Class 13 0.87 0.89 0.88 0.96 0.88 0.96 0.88 1.05 1.07 1.17 1.07 1.11 1.07 1.11 1.07		

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MEAPA =	PROJEC	: I131_Sta122-149 ~ AXLE LOADS	- SINGLE				
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Project Detail							•
Devenue and Dev file	Month Class Total	%) 3kip 4kip 5kip 6kip 7kip 8kip 9kip 10kip 11kip 12kip 13kip 14kip 15kip 16kip 17kip 18kip 19kip 20kip 21kip 22ki	ip 23kip 24kip 25kip 26kip 27kip 28kip	29kip 30kip 3	1kip 32kip	33kip 34	ikip
Pavement Profile	JANU/ 4 100.0	0.19 0.22 0.48 1.65 3.15 7.91 8.88 12.58 11.91 13.73 10.92 7.02 6.56 3.91 3.33 1.97 1.69 1.09 0.92 0.53	3 0.41 0.28 0.15 0.11 0.06 0.04	0.03 0.03 0	.02 0.02	0.01 0.	14
Valiala Olana Distributiona	JANU) 5 100.0	2.62 15.7 17.11 15.0 8.65 9.15 5.92 5.89 4.38 4.09 3.0 1.86 1.75 1.09 1.03 0.63 0.6 0.37 0.34 0.19	0.15 0.1 0.05 0.04 0.02 0.02	0.01 0.01 0	.01 0.0	0.0 0.	0
e Venicle Class Distributions	JANU) 6 100.0	0.35 0.88 1.22 1.81 2.18 5.14 7.38 13.84 16.11 16.5 10.85 6.3 5.55 3.18 2.71 1.62 1.47 0.94 0.82 0.44	4 0.3 0.19 0.09 0.05 0.04 0.02	0.01 0.01 0	.01 0.01	0.0 0.	0
Axio Loado	JANU) 7 100.0	2.19 1.74 1.77 2.23 1.91 2.65 2.87 4.35 5.04 7.72 8.58 7.88 10.34 8.1 8.62 6.23 6.04 3.96 3.0 1.61	1.26 0.74 0.4 0.27 0.17 0.12	0.06 0.05 0	.03 0.02	0.01 0.	01
- Alice Estados	JANU/ 8 100.0	1.56 2.15 3.32 5.07 6.18 10.6 11.5 14.11 9.46 8.24 6.43 4.31 4.58 3.05 3.05 1.91 1.65 0.89 0.69 0.36	3 0.27 0.16 0.09 0.07 0.04 0.04	0.02 0.02 0	.01 0.01	0.01 0.	01
Single	JANU) 9 100.0	1.42 2.7E 2.4E 2.8E 2.47 4.72 7.33 16.74 20.7: 18.7E 8.21 2.89 2.04 1.3 1.55 1.12 1.06 0.57 0.41 0.2	0.15 0.08 0.04 0.03 0.02 0.01	0.01 0.01 0	.0 0.0	0.0 0.	0
	JANU/ 10 100.0	0.44 0.52 0.5€ 0.9€ 1.24 2.76 4.3€ 9.98 13.74 17.48 13.12 7.45 7.1 4.59 4.67 3.05 2.89 1.65 1.35 0.68	3 0.52 0.31 0.16 0.13 0.08 0.06	0.03 0.03 0	.02 0.02	0.01 0.	01
Tandom	JANU/ 11 100.0	1.23 1.14 2.6€ 6.12 5.0E 7.28 8.0E 12.82 10.0E 9.6 8.0 5.85 6.43 4.31 4.01 2.38 2.06 1.11 0.81 0.38	3 0.26 0.14 0.07 0.05 0.03 0.02	0.01 0.01 0	.01 0.01	0.01 0.	.0
Tandem	JANU) 12 100.0	0.9: 1.57 3.14 6.75 6.25 8.68 9.41 12.65 10.05 10.07 8.35 5.11 4.82 3.01 2.81 1.76 1.51 1.03 0.75 0.46	3 0.27 0.15 0.12 0.11 0.03 0.02	0.02 0.01 0	.01 0.02	0.01 0.	0
Tridom	JANU) 13 100.0	3.65 2.81 2.5 2.82 2.41 2.86 2.73 6.0 9.2 12.8 10.91 7.23 7.55 5.21 5.54 3.78 3.66 2.24 1.91 1.06	i 0.88 0.59 0.33 0.31 0.18 0.17	0.1 0.09 0	.06 0.06	0.04 0.	.04
	FEBRL 4 100.0	0.19 0.22 0.48 1.65 3.15 7.91 8.88 12.58 11.91 13.73 10.92 7.02 6.56 3.91 3.33 1.97 1.69 1.09 0.92 0.53	3 0.41 0.28 0.15 0.11 0.06 0.04	0.03 0.03 0	.02 0.02	0.01 0.	.14
a	FEBRL 5 100.0	2.62 15.7 17.11 15.0 8.6E 9.15 5.92 5.89 4.38 4.09 3.0 1.86 1.75 1.09 1.03 0.63 0.6 0.37 0.34 0.19	0.15 0.1 0.05 0.04 0.02 0.02	0.01 0.01 0	.01 0.0	0.0 0.	.0
Quad	FEBRL 6 100.0	0.35 0.88 1.22 1.81 2.18 5.14 7.38 13.84 16.11 16.5 10.85 6.3 5.55 3.18 2.71 1.62 1.47 0.94 0.82 0.44	4 0.3 0.19 0.09 0.05 0.04 0.02	0.01 0.01 0	.01 0.01	0.0 0.	0
	FEBRL 7 100.0	2.19 1.74 1.77 2.23 1.91 2.65 2.87 4.35 5.04 7.72 8.58 7.88 10.34 8.1 8.62 6.23 6.04 3.96 3.0 1.61	1.26 0.74 0.4 0.27 0.17 0.12	0.06 0.05 0	.03 0.02	0.01 0.	.01
Advanced Coefficients	FEBRL 8 100.0	1.56 2.15 3.32 5.07 6.18 10.6 11.5 14.11 9.46 8.24 6.43 4.31 4.58 3.05 3.05 1.91 1.65 0.89 0.69 0.36	5 0.27 0.16 0.09 0.07 0.04 0.04	0.02 0.02 0	.01 0.01	0.01 0.	.01
M Apolyzo	FEBRL 9 100.0	1.42 2.7€ 2.4€ 2.8€ 2.47 4.72 7.33 16.74 20.7: 18.78 8.21 2.89 2.04 1.3 1.55 1.12 1.06 0.57 0.41 0.2	0.15 0.08 0.04 0.03 0.02 0.01	0.01 0.01 0	.0 0.0	0.0 0.	.0
Analyze	FEBRL 10 100.0	0.44 0.52 0.56 0.96 1.24 2.76 4.36 9.98 13.74 17.48 13.12 7.45 7.1 4.59 4.67 3.05 2.89 1.65 1.35 0.68	3 0.52 0.31 0.16 0.13 0.08 0.06	0.03 0.03 0	.02 0.02	0.01 0.	.01
Lact Run Data (FEBRL 11 100.0	1.23 1.14 2.6€ 6.12 5.0Ε 7.28 8.0Ε 12.82 10.05 9.6 8.0 5.85 6.43 4.31 4.01 2.38 2.06 1.11 0.81 0.38	3 0.26 0.14 0.07 0.05 0.03 0.02	0.01 0.01 0	.01 0.01	0.01 0.	.0
	FEBRL 12 100.0	0.9: 1.57 3.14 6.7: 6.2: 8.6E 9.41 12.6: 10.0: 10.07 8.35 5.11 4.82 3.01 2.81 1.76 1.51 1.03 0.75 0.46	6 0.27 0.15 0.12 0.11 0.03 0.02	0.02 0.01 0	.01 0.02	0.01 0.	.0
	FEBRL 13 100.0	3.65 2.81 2.5 2.82 2.41 2.86 2.73 6.0 9.2 12.8 10.91 7.23 7.55 5.21 5.54 3.78 3.66 2.24 1.91 1.06	5 0.88 0.59 0.33 0.31 0.18 0.17	0.1 0.09 0	.06 0.06	0.04 0.	.04
Help <	MARC 4 100.0	0.19 0.22 0.48 1.65 3.15 7.91 8.88 12.59 11.91 13.73 10.92 7.02 6.56 3.91 3.33 1.97 1.69 1.09 0.92 0.53	3 0.41 0.28 0.15 0.11 0.06 0.04	0.03 0.03 0	.02 0.02	0.01 0.	14
	MARC 5 100.0	2.62 15.7 17.14 15.0 8.65 9.15 5.92 5.89 4.38 4.09 3.0 1.86 1.75 1.09 1.03 0.63 0.6 0.37 0.34 0.19	0.15 0.1 0.05 0.04 0.02 0.02	0.01 0.01 0	.01 0.0	0.0 0.	.0
eedback 🕜	MARC 6 100.0	0.32 0.86 1.22 1.81 2.18 5.14 7.38 13.84 16.11 16.5 10.85 6.3 5.55 3.18 2.71 1.62 1.47 0.94 0.82 0.44	4 0.3 0.19 0.09 0.05 0.04 0.02	0.01 0.01 (.01 0.01	0.0 0.	.0
	MARC 7 100.0	2.19 1.74 1.77 2.23 1.91 2.65 2.87 4.35 5.04 7.72 8.58 7.88 10.34 8.1 8.62 6.23 6.04 3.96 3.0 1.61	1.26 0.74 0.4 0.27 0.17 0.12	0.06 0.05 (.03 0.02	0.01 0.	.01
ogout 🕩	MARC 8 100.0	1.56 2.15 3.32 5.07 6.18 10.6 11.5 14.11 9.46 8.24 6.43 4.31 4.58 3.05 3.05 1.91 1.65 0.89 0.69 0.36	3 0.27 0.16 0.09 0.07 0.04 0.04	0.02 0.02 (.01 0.01	0.01 0.	.01
	MARC 9 100.0	1.42 2.76 2.48 2.88 2.47 4.72 7.33 16.74 20.7: 18.78 8.21 2.89 2.04 1.3 1.55 1.12 1.06 0.57 0.41 0.2	0.15 0.08 0.04 0.03 0.02 0.01	0.01 0.01 (.0 0.0	0.0 0.	.0
	MARC 10 100.0	0.44 0.52 0.56 0.96 1.24 2.76 4.36 9.98 13.74 17.48 13.12 7.45 7.1 4.59 4.67 3.05 2.89 1.65 1.35 0.68	3 0.52 0.31 0.16 0.13 0.08 0.06	0.03 0.03 (.02 0.02	0.01 0.	.01
	MARC 11 100.0	1.23 1.14 2.6€ 6.12 5.0E 7.28 8.0E 12.82 10.05 9.6 8.0 5.85 6.43 4.31 4.01 2.38 2.06 1.11 0.81 0.38	3 0.26 0.14 0.07 0.05 0.03 0.02	0.01 0.01 (.01 0.01	0.01 0.	.0
	MARC 12 100.0	0.93 1.57 3.14 6.75 6.25 8.68 9.41 12.65 10.05 10.07 8.35 5.11 4.82 3.01 2.81 1.76 1.51 1.03 0.75 0.46	5 0.27 0.15 0.12 0.11 0.03 0.02	0.02 0.01 (.01 0.02	0.01 0.	.0
	MARC 13 100.0	3.65 2.81 2.5 2.82 2.41 2.86 2.73 6.0 9.2 12.8 10.91 7.23 7.55 5.21 5.54 3.78 3.66 2.24 1.91 1.06	3 0.88 0.59 0.33 0.31 0.18 0.17	0.1 0.09 (.06 0.06	0.04 0.	.04
	APRIL 4 100.0	0.19 0.22 0.48 1.65 3.15 7.91 8.88 12.59 11.91 13.73 10.92 7.02 6.56 3.91 3.33 1.97 1.69 1.09 0.92 0.53	3 0.41 0.28 0.15 0.11 0.06 0.04	0.03 0.03 (.02 0.02	0.01 0.	.14
	APRIL 5 100.0	2.62 15.7 17.1(15.0 8.65 9.15 5.92 5.89 4.38 4.09 3.0 1.86 1.75 1.09 1.03 0.63 0.6 0.37 0.34 0.19	0.15 0.1 0.05 0.04 0.02 0.02	0.01 0.01 (.01 0.0	0.0 0.	.0
	APRIL 6 100.0	0.3; 0.8; 1.22 1.81 2.18 5.14 7.38 13.84 16.11 16.5 10.8; 6.3 5.55 3.18 2.71 1.62 1.47 0.94 0.82 0.44	4 0.3 0.19 0.09 0.05 0.04 0.02	0.01 0.01 (.01 0.01	0.0 0.	.0
	APRIL 7 100.0	2.19 1.74 1.77 2.2; 1.91 2.65 2.87 4.35 5.04 7.72 8.58 7.88 10.34 8.1 8.62 6.23 6.04 3.96 3.0 1.61	1.26 0.74 0.4 0.27 0.17 0.12	0.06 0.05 (0.03 0.02	0.01 0	.01
	4000				01 0.01		



Single Axle Load Distribution:

Tandem Axle Load Distribution:









 $NA_{i,t,w_k}^{tridem} = Number of tridem axles, for each month$ *i*(*i*= 1 ... 12), for year*t*(*t*= 1 ...*t_a*, where*t_a*is analysis duration), corresponding to axle weight*w_k*, where*k*= 1 ... 31 and*w_k*= 12000, 15000, ... 102000 (lb).

 NA_{i,t,w_k}^{quad} = Number of quad axles i, for each month i ($i = 1 \dots 12$), for year t ($t = 1 \dots t_a$, where t_a is analysis duration), corresponding to axle weight w_k Where $k = 1 \dots 31$ and $w_k = 12000, 15000, \dots 102000$ (lb).



Example sub-layering of a three-layer structure and analysis points for the single axle dual tire configuration



Example structural response computed by MatLEA sub algorithm in MEAPA

meminkutay	PROJECT : 1131_Sta122-149	~			ADVANCED COEFF	CIENTS				
Troject Detail	Axle Configuration				Misc Configuration					
📚 Pavement Profile	Tandem axle spacing (in)	51.6			Wheel Wander Std.	Dev. (in)	10.0			
Vehicle Class Distributions	Tridem axle spacing (in)	49.2			Initial IRI	in/mile)	63.0			
🛕 Axle Loads 🛛 🖌	Quad axle spacing (in)	49.2			Clima	te Type	NARR			
Advanced Coefficients	Dual tire spacing (in)	12.0			Climat	e Model	Original			
🗠 Analyze	Tire pressure (psi)	120.0								
陆 Last Run Data 🛛 <		120.0								
	FATIGUE CRACKING CALIBRATION		TS							
Feedback 😧 Logout Թ	FATIGUE CRACKING CALIBRATION Bottom-Up fatigue	I COEFFICIEN	TS	•••••••••••••••••••••••••••••••••••••••	Top-Down fatigue					e
Feedback 🚱 Logout 🕞	FATIGUE CRACKING CALIBRATION Bottom-Up fatigue $\beta_{f1},\beta_{f2}, \text{and } \beta_{f3}$	0.0205	1.38	0.88	Top-Down fatigue β ₁₁ , β ₁₂ ,	and β _{f3}	0.0205	1.38	0.8	6 38
Feedback <section-header></section-header>	FATIGUE CRACKING CALIBRATION Bottom-Up fatigue $\beta_{f1}, \beta_{f2}, \text{and } \beta_{f3}$ $k_{f1}, k_{f2}, \text{and } k_{f3}$	0.0205 3.75	TS 1.38 2.87	0.88	Top-Down fatigue β _{f1} , β _{f2} , k _{f1} , k _{f2} ,	and β _{f3} and k _{f3}	0.0205 3.75	1.38	0.8	6
Feedback	FATIGUE CRACKING CALIBRATION Bottom-Up fatigue β _{f1} , β _{f2} , and β _{f3} k _{f1} , k _{f2} , and k _{f3} C _{1-bu} , C _{2-bu} , and C _{4-bu}	0.0205 3.75 1.31	TS 1.38 2.87 2.16	0.88 0.88 1.46 6000.0	<i>Τορ-Down fatigue</i> β ₁₁ , β ₁₂ , k ₁₁ , k ₁₂ , C _{1-td} , C _{2-td} , an	and β _{f3} and k _{f3} d C4-td	0.0205 3.75 7.0	1.38 2.87 3.5	0.8	6 00.0
Feedback <section-header></section-header>	FATIGUE CRACKING CALIBRATION Bottom-Up fatigue β ₁₁ , β ₁₂ , and β ₁₃ k ₁₁ , k ₁₂ , and k ₁₃ C _{1-bu} , C _{2-bu} , and C _{4-bu} Bottom-Up Fatigue Standard Deviation	0.0205 3.75 1.31 1.13 + 13/(1+ex	75 1.38 2.87 2.16 p(7.57-15.5*L0010	0.88 0.88 1.46 6000.0	Top-Down fatigue βr1, βr2, kr1, kr2, C1-td, C2-td, and Top-Down Fatigue St De	and β_{f3} and k_{f3} d C_{4-td} andard viation	0.0205 3.75 7.0 10 + 130/(1+exp	1.38 2.87 3.5 9(1.072-2.1654*LC	0.8 1.40 100	88 66 00.0
Feedback	FATIGUE CRACKING CALIBRATION Bottom-Up fatigue β _{f1} , β _{f2} , and β _{f3} k _{f1} , k _{f2} , and k _{f3} C _{1-bu} , C _{2-bu} , and C _{4-bu} Bottom-Up Fatigue Standard Deviation	0.0205 3.75 1.31 1.13 + 13/(1+ex	1.38 1.38 2.87 2.16 p(7.57-16.5*LOG()	0.88 0.88 1.46 6000.0	Top-Down fatigue β ₁₁ , β ₁₂ , k ₁₁ , k ₁₂ , C _{1-1d} , C _{2-1d} , an Top-Down Fatigue St De	and β_{f3} and k_{f3} d C_{4-td} andard viation	0.0205 3.75 7.0 10 + 130/(1+exp	1.38 2.87 3.5 3(1072-2.1654*LC	0.8 1.40 100	6 00.0



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MEAPA meminkutay	■ PROJECT : I131_Sta122-149 ·	~			A	DVANCED	COEFFICIENT	S			
Project Detail	Axle Configuration					Misc Configu	ration				
Pavement Profile						Wheel Wa	nder Std. Dev. (in)	10.0			
Vehicle Class Distributio	<pre>tevised' = An impro</pre>	oved cl	imati	c model,			Initial IRI (in/mile)	63.0			
Axle Loads CC	orrected for the ef	fects o	f clou	d cover or	n 1	the	Climate Type	NARR			~
Advanced Coefficients	ongwave radiation.	See do	ocum	entation f	or	·	Climate Model	Original			~
ast Run Data	ore details.						✓ Original Revised				
lelp < back 🕜	FATIGUE CRACKING CALIBRATION	COEFFICIENT	S								
ut 🕩	Bottom-Up fatigue			0		Top-Down fa	tigue				0
ut 🕩	Bottom-Up fatigue $\beta_{f1},\beta_{f2},\text{and }\beta_{f3}$	0.0205	1.38	0.88		Top-Down fa	tigue $\beta_{f1},\beta_{f2},\text{and }\beta_{f3}$	0.0205	1.38	0.88	0
ut G	Bottom-Up fatigue $\beta_{f1},\beta_{f2},\text{ and }\beta_{f3}$ $k_{f1},k_{f2},\text{ and }k_{f3}$	0.0205	1.38 2.87	0.88 1.46		Top-Down fa	tigue $\beta_{f1}, \beta_{f2}, \text{and } \beta_{f3}$ $k_{f1}, k_{f2}, \text{and } k_{f3}$	0.0205	1.38 2.87	0.88	8
ut 6	Bottom-Up fatigue β _{f11} β _{f2} , and β _{f3} k _{f1} , k _{f2} , and k _{f3} C _{1-bu} , C _{2-bu} , and C _{4-bu}	0.0205 3.75 1.31	1.38 2.87 2.16	0.88 1.46 6000.0		Top-Down fa	tigue β _{f1} , β _{f2} , and β _{f3} k _{f1} , k _{f2} , and k _{f3} d, C _{2-td} , and C _{4-td}	0.0205 3.75 7.0	1.38 2.87 3.5	0.88	
ut 🕪	Bottom-Up fatigue β _{f11} β _{f2} , and β _{f3} k _{f1} , k _{f2} , and k _{f3} C _{1-bu} , C _{2-bu} , and C _{4-bu} Bottom-Up Fatigue Standard Deviation	0.0205 3.75 1.31 1.13 + 13/(1+exp)	1.38 2.87 2.16 (7.57-15.5*L0G10	0.88 1.46 6000.0		Top-Down fa	tigue β _{f1} , β _{f2} , and β _{f3} k _{f1} , k _{f2} , and k _{f3} d, C _{2-td} , and C _{4-td} Fatigue Standard Deviation	0.0205 3.75 7.0 10 + 130/(1+ex	1.38 2.87 3.5 p(1.072-2.1654*LO	0.88 1.46 1000.0 G10(ToP+0.0001)))	
ut GP	Bottom-Up fatigue β _{f1} , β _{f2} , and β _{f3} k _{f1} , k _{f2} , and k _{f3} C _{1-bu} , C _{2-bu} , and C _{4-bu} Bottom-Up Fatigue Standard Deviation	0.0205 3.75 1.31 1.13 + 13/(1+exp)	1.38 2.87 2.16 (7.57-15.5*L0010	0.88 1.46 6000.0		Top-Down fa C ₁₋₁ Top-Down	tigue β _{f1} , β _{f2} , and β _{f3} k _{f1} , k _{f2} , and k _{f3} d, C ₂ -td, and C ₄ -td Fatigue Standard Deviation	0.0205 3.75 7.0 10 + 130/(1+ex)	1.38 2.87 3.5 9(1.072-2.1654*LO	0.88 1.46 1000.0	
ut	Bottom-Up fatigue β _{f11} , β _{f2} , and β _{f3} k _{f1} , k _{f2} , and k _{f3} C _{1-bu} , C _{2-bu} , and C _{4-bu} Bottom-Up Fatigue Standard Deviation LAYER RUTTING CALIBRATION COM	0.0205 3.75 1.31 1.13 + 13/(1+exp)	1.38 2.87 2.16 (757-15.5+L0010	 0.88 1.46 6000.0 BOTTOM+0.0001))) 		Top-Down fa	tigue β _{f1} , β _{f2} , and β _{f3} k _{f1} , k _{f2} , and k _{f3} d, C _{2-td} , and C _{4-td} Fatigue Standard Deviation	0.0205 3.75 7.0 10 + 130/(1+ex	1.38 2.87 3.5 pt1.072-2.1654*L0	0.88 1.46 1000.0	?

Distresses computed by MEAPA

	Pavement type:	AC-GB	AC-CSM	AC- EAC- GB	AC- EAC- CSM	AC- GB-	AC- GB-
Distress output				00	CSIVI	-GB	CSM
AC top-down fatigue cracking (ft/mile)		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
AC bottom-up fatigue cracking (%)		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
AC thermal cracking (ft/mile)		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Rutting – AC, base subbase and subgrade (in)		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Reflective cracking (% lane area)		-	\checkmark	\checkmark	√ (1)	-	-
Chemically stabilized layer - fatigue fracture da	amage (% lane area)	-	\checkmark	-	\checkmark	-	-
Existing AC layer - fatigue fracture damage (%	lane area)	-	-	\checkmark	\checkmark	-	-
International Roughness Index (IRI) (in/mile)	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

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\leftarrow \rightarrow C \bullet paveapps	.com/meapaapp2/Analyze.jsp		☆	M	٢	0 1	þ
MEAPA meminkutay	■ PROJECT : II31_Sta122-149 ~ Run Analysis Optimize Thickness	ANALYZE					
 Project Detail Pavement Profile 	Analysis run settings						
Vehicle Class Distributions	Distress save period (months):						
Axle Loads <	Structural response 240.0						
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4:	sphart Pavement Analysis						









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MEAPA meminkutay	≡ PRO.	JECT :	1131_Sta	a122-149	~				RESU	LTS			
oject Detail		Re	liability	and Te	rminal L	Distresse	5						
vement Profile		Distres	s			Threshold	F	eliability	Distr	ess Comput	ted @ 20.0 v	vear(s) P	Pass/Fail
		IRI (in/m	nile)			172.0	g	0	142.5			P	ASS
hicle Class Distributions		AC Top-	-Down Fatig	ue Crackino	(ft/mile)	2000.0	8	30	1930.	9		Р	ASS
		AC Bott	om-up Fatig	que Crackin	g (%)	25.0	8	30	1.0			P	PASS
e Loads <		AC The	rmal Crackir	ng (ft/mile)		1000.0	5	30	141.4			P	ASS
		Total Ru	utting (in)			0.75	ç	90	0.34			P	ASS
vanced Coefficients		AC Rutt	ing (in)			0.25	ç	90	0.2			P	ASS
		AC Refle	ective Crack	(ing (%)		25.0		20	0.0			P	PASS
			couve oraci			20.0	:	0	0.0				
alyze				(ing (70)		20.0	5		0.0				
alyze st Run Data <				ung (70)		20.0			0.0				
st Run Data <		Dis	stresse	S		20.0			0.0				:
alyze st Run Data < lip < ick Ø		Dis	IRI (in/mile) (@ 50% reliability)	Rutting Total (in) (@ 50% reliability)	Rutting AC only(in) (@ 50% reliability)	Bottom-up Fatigue Cracking(%) (@ 50% reliability)	Top-down Fatigue Cracking(ft/mile (@ 50% reliability)	Thermal 9) Cracking(ft/mile) (@ 50% reliability)	IRI (in/mile) (@ 90% reliability)	Rutting Total (in) (@ 90% reliability)	Rutting AC only(in) (@ 90% reliability)	Bottom-up Fatigue Cracking(% (@ 80% reliability)	Top-dowr Fatigue) Cracking((@ 80% reliability
Run Data <		Dis Month	IRI (in/mile) (@ 50% reliability) 63.0	Rutting Total (in) (@ 50% reliability) 0.081	Rutting AC only(in) (@ 50% reliability) 0.018	Bottom-up Fatigue Cracking(%) (@ 50% reliability) 0.0	Top-down Fatigue Cracking(ft/mile (@ 50% reliability) 0.4	Thermal 9) Cracking(ft/mile) (@ 50% reliability) 0.0	IRI (in/mile) (@ 90% reliability) 71.1	Rutting Total (in) (@ 90% reliability) 0.121	Rutting AC only(in) (@ 90% reliability) 0.031	Bottom-up Fatigue Cracking(% (@ 80% reliability) 1.0	Top-dowr Fatigue) Cracking((@ 80% reliability 22.7
ze vun Data < < ?		Dis Month 1 2	IRI ((m/mile) ((@ 50% reliability) 63.0 66.5	Rutting Total (in) (@ 50% reliability) 0.081 0.087	Rutting AC only(in) (@ 50% reliability) 0.018 0.018	Bottom-up Fatigue Cracking(%) (@ 50% reliability) 0.0	Top-down Fatigue Cracking(ft/mile (@ 50% reliability) 0.4 0.6	Thermal e) Cracking(ft/mile) (@ 50% reliability) 0.0 0.0	IRI (in/mile) (@ 90% reliability) 71.1 88.9	Rutting Total (in) (@ 90% reliability) 0.121 0.128	Rutting AC only(in) (@ 90% reliability) 0.031	Bottom-up Fatigue Cracking(% (@ 80% reliability) 1.0 1.0	Top-dowr Fatigue) Cracking(@ 80% reliability 22.7 29.3
n Data < <		Dis Month 1 2 3	IRI ((m/mile) ((m 50%) reliability) 63.0 66.5 66.6	Rutting Total (in) (@ 50% reliability) 0.081 0.087 0.089	Rutting AC only(in) (@ 50%) reliability) 0.018 0.018 0.018	Bottom-up Fatigue Cracking(%) (@ 50% reliability) 0.0 0.0 0.0 0.0	Top-down Fatigue Cracking(ft/mila (@ 50% reliability) 0.4 0.6 0.8	Thermal c) Cracking(ft/mile) (@ 50% reliability) 0.0 0.0 0.0 0.0	IRI (in/mile) (@ 90% reliability) 71.1 88.9 89.0	Rutting Total (in) (@ 90% reliability) 0.121 0.128 0.131	Rutting AC only(in) (@ 90%) reliability) 0.031 0.032	Bottom-up Fatigue Cracking(% (@ 80% reliability) 1.0 1.0 1.0	Top-dowr Fatigue) Cracking(@ 80% reliability 22.7 29.3 32.5
Data < <		Dis Month 1 2 3 4	IRI (in/mile) (@ 50% reliability) 63.0 66.5 66.6 66.7	Rutting Total (in) (@ 50% reliability) 0.081 0.087 0.089 0.091	Rutting AC only(in) (@ 50% reliability) 0.018 0.018 0.018 0.018	Bottom-up Fatigue Cracking(%) (@ 50% reliability) 0.0 0.0 0.0 0.0	Top-down Fatigue Cracking(ft/mile (@ 50% reliability) 0.4 0.6 0.8 0.9	Thermal) Cracking(ft/mile) (@ 50% reliability) 0.0 0.0 0.0 0.0	IRI (in/mile) (@ 90% reliability) 71.1 88.9 89.0 89.0 89.2	Rutting Total (in) (@ 90% reliability) 0.121 0.128 0.131 0.133	Rutting AC only(in) (@ 90%) reliability) 0.031 0.032 0.032	Bottom-up Fatigue Cracking(% (@ 80% reliability) 1.0 1.0 1.0 1.0	Top-dowr Fatigue) Cracking((@ 80% reliability 22.7 29.3 32.5 35.1
Data < <		Dis Month 1 2 3 4 5	IRI (in/mile) (@ 50% reliability) 63.0 66.5 66.6 66.7 66.8 66.7	Rutting Total (in) (@ 50% reliability) 0.081 0.087 0.089 0.091 0.092	Rutting AC only(in) (@ 50% reliability) 0.018 0.018 0.018 0.018	Bottom-up Patigue Cracking(%) (@ 50% reliability) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Top-down Fatigue Cracking(ft/mili (@ 50% reliability) 0.4 0.6 0.6 0.8 0.9 1.0	Thermal e) Cracking(ft/mile) (@ 50% reliability) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	IRI (in/mile) (@ 90% reliability) 71.1 88.9 89.0 89.2 89.3 89.3	Rutting Total (in) (@ 90% reliability) 0.121 0.128 0.131 0.133 0.135	Rutting AC only(in) (@ 90%) reliability) 0.031 0.032 0.032 0.032	Bottom-up Fatigue Cracking(%) (@ 80% reliability) 1.0 1.0 1.0 1.0 1.0	Top-dowr Fatigue) Crackingi (@ 80% reliability 22.7 29.3 32.5 35.1 37.8
Data < <		Dis Month 1 2 3 4 5 6 6 7	IRI (in/mile) (@ 50% reliability) 66.5 66.6 66.6 66.7 66.8 66.9 67.0	Rutting Total (in) (@ 50% reliability) 0.081 0.087 0.089 0.091 0.092 0.094	Rutting AC only(in) (@ 50% reliability) 0.018 0.018 0.018 0.018 0.018	Bottom-up Fatigue Cracking(%) (@ 50% reliability) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Top-down Fatigue Cracking(ft/mile (@ 50% reliability) 0.4 0.6 0.8 0.9 1.0 1.2 1.2	Thermal e) Cracking(ft/mile) (@ 50% reliability) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	IRI (in/mile) (@ 90% reliability) 71.1 88.9 89.0 89.2 89.3 89.4 89.4	Rutting Total (in) (@ 90% reliability) 0.121 0.128 0.131 0.133 0.135 0.137	Rutting AC only(in) (@ 90%) reliability) 0.031 0.032 0.032 0.032 0.032 0.032	Bottom-up Fatigue Cracking(%) (@ 80% reliability) 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Top-down Fatigue () Cracking() (20.3 29.3 32.5 35.1 37.8 40.6 43.4
un Data < < ?		Dis Month 1 2 3 4 5 6 7 7 8	RI ((in/mile) (@ 50% reliability) 63.0 66.5 66.6 66.7 66.8 66.9 67.0 67.0	Rutting Total (in) (@ 50% reliability) 0.081 0.089 0.091 0.092 0.094 0.095 0.098	Rutting AC only(in) (@ 50%) reliability) 0.018 0.018 0.018 0.018 0.018 0.018 0.018 0.018 0.018 0.018 0.018 0.018 0.018 0.018	Bottom-up Fatigue Cracking(%) (@ 50% reliability) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Top-down Fatigue Cracking(ft/mild (@ 50% reliability) 0.4 0.6 0.8 0.9 1.0 1.2 1.3 1.6	Thermal e) Cracking(ft/mile) (@ 50% reliability) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	IRI (in/mile) (@ 90% reliability) 71.1 88.90 89.0 89.2 89.3 89.4 89.6 89.8	Rutting Total (in) (@ 90% reliability) 0.121 0.138 0.131 0.133 0.135 0.137 0.139 0.139	Rutting AC only(in) (@ 90%) reliability) 0.031 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032	Bottom-up Fatigue Cracking(% (@ 80% reliability) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Top-down Fatigue () Cracking() (@ 80% reliability 22.7 29.3 32.5 35.1 37.8 40.6 43.4 48.5

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Detail	calcul	ated	l in fe	evels ew se	cond	s (no	need to	o re-run	the a	inaly	sis)	aonity	VVIII K
nent Profile		Distre	ss			Threshold		Reliability	Distr	ess Compu	ted @ 20.0	year(s) F	ass/Fail
		IRI (in	/mile)			172.0	9	90	142.5			F	ASS
ass Distributions		AC To	p-Down Fati	gue Crackin	g (ft/mile)	2000.0	7	80	1930	.9		F	ASS
		AC Bo	ttom-up Fati	igue Crackin	g (%)	25.0		75	1.0			F	ASS
ds <		AC Th	ermal Crack	ing (ft/mile)		1000.0		80	141.4			F	ASS
		Total F	Rutting (in)			0.75		90	0.34			F	ASS
ed Coefficients		AC Ru	tting (in)			0.25		90	0.2			F	ASS
		AC Re	flective Crac	kina (%)		25.0		90	0.0			F	ASS
Data <													
,		D	Istresse	is.									:
9 *		Montl	IRI (in/mile) (@ 50% n reliability)	Rutting Total (in) (@ 50%) reliability)	Rutting AC only(in) (@ 50% reliability)	Bottom-up Fatigue Cracking(%) (@ 50% reliability)	Top-down Fatigue Cracking(ft/mil (@ 50% reliability)	Thermal e) Cracking(ft/mile) (@ 50% reliability)	IRI (in/mile) (@ 90% reliability)	Rutting Total (in) (@ 90% reliability)	Rutting AC only(in) (@ 90% reliability)	Bottom-up Fatigue Cracking(% (@ 80% reliability)	Top-down Fatigue) Cracking(fi (@ 80% reliability)
		1	63.0	0.081	0.018	0.0	0.4	0.0	71.1	0.121	0.031	1.0	22.7
		2	66.5	0.087	0.018	0.0	0.6	0.0	88.9	0.128	0.032	1.0	29.3
		3	66.6	0.089	0.018	0.0	0.8	0.0	89.0	0.131	0.032	1.0	32.5
		4	66.7	0.091	0.018	0.0	0.9	0.0	89.2	0.133	0.032	1.0	35.1
		5	66.8	0.092	0.018	0.0	1.0	0.0	89.3	0.135	0.032	1.0	37.8
		6	66.9	0.094	0.018	0.0	1.2	0.0	89.4	0.137	0.032	1.0	40.6
		7	67.0	0.095	0.018	0.0	1.3	0.0	89.6	0.139	0.032	1.0	43.4
		8	67.1	0.098	0.019	0.0	1.6	0.0	89.8	0.142	0.032	1.0	48.5
		0	1.7.0	0.104	0.024	0.0		0.0	un 2	0.15	0.04	10	62.2

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MEAPA memolouluy E ROJECT: H31SH72:49 × RESULTS Results Participation Project Detail Project	\leftarrow \rightarrow C $($ a paveapps.com/meapaapp2/Resu	ultsAtRel.	.jsp?relcalc	:d=1									(Ð 🕁 🚾 (0
Policic Detail Provinit	MEAPA ≡ PRO meminkutay	JECT :	1131_Sta1	22-149 ~					RE	SULTS					Save
Perment Profile Intrast Trasthold Relability Distress Computed Q 2.0 year() Pear(A) Variable Class Distributions Alse Leads Alse Le	🔚 Project Detail	F	eliabilit}	/ and Te	rminal I	Distresse	15								
• Vehicle Class Distributions Image: 100 minimized processing (formine) 172 0 0 minimized processing (formine) 1930 0 1930 0 1930 0 1935 0 • Add Loads • Add anced Coefficients 4 Composition (formine) 100 0 80 1930 0 0.34 1935 0 • Add anced Coefficients • Composition (formine) 100 0 80 101 0 0.34 1935 0 • Add anced Coefficients • Composition (formine) 102 0 80 0.34 1935 0 • Composition (formine) 102 0 100 0.24 1935 0 1935 0 • Composition (formine) 102 0 103 0.02 104 1935 0 • Composition (formine) 1030 0 104 102 0 0.04 0.02 104 0 • Composition (formine) 102 0 103 0 104 0	Pavement Profile	Distr	ess			Tł	reshold	Reliability	v	D	istress Con	puted @ 20.0) vear(s)	Pass/Fail	
• Vehicle Class Distributions A.C Top-Down Fatigue Cracking (11/mle) 2000 80 1930.9 PAS • A to Loads • A to Loads • A to Loads • A to Loads • A to Second 90. 141.4 PAS • A to Loads • A to main Class Distributions • A to main Class Distributions 90. 141.4 PAS • A to Loads • A to main Class Distributions 0.28 90 0.2 PAS • A to block • A to the main Class Distributions 0.28 90 0.0 PAS • A to block • A to the main Class Distributions 0.0 PAS PAS • A to block • A to the main Class Distributions 0.0 0.0 PAS • A to block • B to the main Class Distributions 0.0 0.0 PAS • Download PDF Roport • B to the main Class Distributions Fatigue Class Distributions Fatigue Class Distributions Terminal Class Distributions Terminal Class Distributions • Download (JO Date • Download (JO Date • Download (JO Date • P To Down N to To Class Distributions Pas P To Class Distributio		IRI (ir	ı/mile)			17	2.0	90		1.	42.5		,	PASS	
Arde Loads A de Bettom-up Fatigue Cracking (%) 25.0 75 10 P PASS A dvanced Coefficients A dvanced Coefficients 0.0 80 14.4 PASS A nalyze 0.2 0.2 0.2 PASS PASS A nalyze 0.2 0.2 PASS PASS View Distresses Download (%) 0.2 0.2 PASS I full multing (%) Cracking (%) 25.0 90 0.2 PASS Download (%) Data Internet Cracking (%) 25.0 90 0.2 PASS Download (%) Data Internet Cracking (%) 25.0 90 0.2 PASS Download (%) Data Internet Cracking (%) Pass Pass Pass Download (%) Data Internet Cracking (%) Pass Pass Pass Pass Pass Pass Pass Pass	Vehicle Class Distributions	AC To	op-Down Fati	gue Crackin	g (ft/mile)	21	0.000	80		1	930.9			PASS	
A Charmed Coefficients A Charmed Coefficients A Charmed Cracking (frimin) 00000 80 141.4 PASS A Analyze 0.78 00 0.34 PASS A Charmed Coefficients 0.78 00 0.24 PASS A Charmed Cracking (frimin) 0.78 00 0.24 PASS A Charmed Cracking (frimin) 0.78 00 0.24 PASS A Charmed Cracking (frimin) 0.78 00 0.2 PASS A Charmed Cracking (frimin) 0.78 0.0 0.0 PASS B Citic Relability Distresses Distresses Distresses Pass Pass Download I/O Data Riting Riting Constant (frimin) Constant (frimin) Riting Constant (frimin) Riting Constant (frimin) Riting Riting<	Aula Laarla	AC B	ottom-up Fat	igue Crackir	ıg (%)	2!	5.0	75		1.	0			PASS	
Advanced Coefficients	Axie Loads <	AC T	nermal Crack	ing (ft/mile)		10	0000	80		1-	41.4			PASS	
A raty ze A c Rutting (m) 0.25 90 0.2 PASS A raty ze A c Rutting (m) 25.0 90 0.0 PASS A raty ze A c Rutting (m) 25.0 90 0.0 PASS A raty ze A c Rutting (m) 25.0 90 0.0 PASS A raty ze A c Rutting (m) Reflective Cracking (S) 25.0 90 0.0 PASS B c Rutting (m)	Advanced Coefficients	Total	Rutting (in)			0.	75	90		0	.34			PASS	
▲ Analyze Analyze A C Reflective Cracking (%) 25.0 90 0.0 PAS ▲ View Distresses Edit Reliability Edi		AC R	utting (in)			0.	25	90		0	.2			PASS	
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Help edback or good in the same state	Download PDF Report Download I/O Data	Mont	IRI (in/mile) (@ 50% ch reliability'	Rutting Total (in) (@ 50% reliability	AC only(in) (@ 50% reliability	Fatigue Cracking(% (@ 50%) reliability)	Fatigue 5) Cracking(ft/mile (@ 50% reliability)	Thermal) Cracking(ft/mile) (@ 50% reliability)	IRI (in/mile) (@ 90% reliability)	Rutting Total (in) (@ 90% reliability)	AC only(in) (@ 90% reliability)	Fatigue Cracking(%) (@ 80% reliability)	Fatigue Cracking(ft/mile) (@ 80% reliability)	Thermal Cracking(ft/mile) (@ 80% reliability)	
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		Distress S	ummarv		
			Target	Distance @ 20.0	Pass
	Distress	Threshold	Reliability	year(s)	/Fail
	IRI (in/mile)	172.0	90.0%	142.5	PASS
	AC Top-Down Fatigue Cracking (ft/mile)	2000.0	80.0%	1930.9	PASS
	AC Bottom-up Fatigue Cracking (%)	25.0	80.0%	1.0	PASS
4	AC Thermal Cracking (ft/mile)	1000.0	80.0%	141.4	PASS
	Total Rutting (in)	0.75	90.0%	0.34	PASS
	AC Rutting (in)	0.25	90.0%	0.2	PASS
	AC Reflective Cracking (%)	25.0	90.0%	0.0	N/A
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_	Nahicla Class Distributions	IRI (i	n/mile)			1	72.0	90			142.5			PASS	
		AC 1	op-Down Fa	tigue Crackin	g (ft/mile)	2	2000.0	80			1930.9			PASS	
	🛕 Axle Loads 🛛 🔍	AC E	bermal Cra	stigue Crackin sking (ft/mile)	ig (76)	2	15.0	80			1.0			PASS	
_		Tota	Rutting (in)	, and the second		0	0.75	90			0.34			PASS	
_	Advanced Coefficients	AC F	lutting (in)			0	0.25	90			0.2			PASS	
	🐸 Analyze	AC F	teflective Cr	acking (%)		2	15.0	90			0.0			PASS	
	In Last Due Date														
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		1	Distress	es											
	Edit Kenability					Bottom-up						Bottom-up	Top-down		
	Download PDF Report		IRI (in/mile)	Rutting Total (in)	Rutting AC	Fatigue Cracking(%)	Top-down Fatigue	Thermal	IRI (in/mile)	Rutting Total (in)	Rutting AC	Fatigue	Fatigue Cracking(ft/mile)	Thermal Cracking(ft/mile	
			(@ 50%	(@ 50%	50%	(@ 50%	(@ 50%	(@ 50%	(@ 90%	(@ 90%	90%	(@ 80%	(@ 80%	(@ 80%	
	🛓 Download I/O Data	Mon	th reliabilit	y) reliability) 0.081	0.018	reliability)	reliability)	reliability)	71.1	0.121	reliability)	reliability)	reliability)	reliability)	
		2	66.5	0.087	0.018	0.0	0.6	0.0	88.9	0.128	0.032	1.0	29.3	141.4	
	E Help <	3	66.6	0.089	0.018	0.0	0.8	0.0	89.0	0.131	0.032	1.0	32.5	141.4	
		4	66.7	0.091	0.018	0.0	0.9	0.0	89.2	0.133	0.032	1.0	35.1	141.4	
	Feedback 🚱	6	66.9	0.092	0.018	0.0	1.2	0.0	89.4	0.135	0.032	1.0	40.6	141.4	
		7	67.0	0.095	0.018	0.0	1.3	0.0	89.6	0.139	0.032	1.0	43.4	141.4	
ra ta viavu tha d	istrass	8	67.1	0.098	0.019	0.0	1.6	0.0	89.8	0.142	0.032	1.0	48.5	141.4	
re to view the d	ISLIESS	9	67.4	0.104	0.024	0.0	5.8	0.0	90.2	0.167	0.058	1.0	62.2 84.5	141.4	
		11	68.5	0.131	0.046	0.0	10.1	0.0	91.9	0.182	0.073	1.0	100.8	141.4	
		12	68.8	0.137	0.05	0.0	14.6	0.0	92.3	0.19	0.079	1.0	111.6	141.4	
		13	69.0	0.139	0.051	0.0	16.8	0.0	92.5	0.192	0.08	1.0	116.0	141.4	
		15	69.1	0.14	0.051	0.0	18.1	0.0	92.7	0.193	0.08	1.0	118.2	141.4	
		16	69.2	0.14	0.051	0.0	18.4	0.0	92.8	0.194	0.08	1.0	118.8	141.4	
		17	69.2	0.141	0.051	0.0	18.8	0.0	92.9	0.194	0.08	1.0	119.5	141.4	
_		18	69.3	0.141	0.051	0.0	19.5	0.0	93.0	0.194	0.08	1.0	120.1	141.4	
		20	69.4	0.142	0.051	0.0	20.3	0.0	93.2	0.195	0.08	1.0	122.1	141.4	
		21	69.6	0.144	0.052	0.0	22.9	0.0	93.4	0.198	0.082	1.0	126.1	141.4	
		22	69.8	0.148	0.055	0.0	29.0	0.0	93.7	0.203	0.086	1.0	134.9	141.4	
		23	70.3	0.154	0.062	0.0	43.6	0.0	94.5	0.211	0.095	1.0	152.9	141.4	
		25	70.4	0.159	0.062	0.0	46.9	0.0	94.6	0.216	0.097	1.0	156.8	141.4	
		26	70.5	0.159	0.062	0.0	48.1	0.0	94.7	0.217	0.097	1.0	158.2	141.4	
		27	70.6	0.159	0.062	0.0	48.8	0.0	94.9	0.217	0.097	1.0	158.9	141.4	
		20	70.0	0.10	0.002	0.0	49.8	0.0	95.1	0.217	0.097	1.0	160.1	141.4	
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	IRI (in/mile)			15	72.0	90		1	42.5			PASS
Vehicle Class Distributions	AC 1	fop-Down Fa	tigue Crackir	ng (ft/mile)	2	000.0	80		1	1930.9			PASS
	AC I	3ottom-up F	atigue Cracki	ng (%)	2	5.0	75		1	1.0			PASS
Axie Loads <	AC 1	fhermal Cra	king (ft/mile)		10	0.000	80		1	141.4			PASS
Advanced Coefficients	Tota	I Rutting (in)			0	.75	90		(0.34			PASS
	AC I	Rutting (in)			0	.25	90		C	0.2			PASS
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A web-based pavement design app