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Final Report Date: 8/27/2014

PSP Enrollment #3879University of Arkansas
Fayetteville, Arkansas USA

Submitted by sgwill@uark.edu on 7/21/2014 at 5:43 PM

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The Z-Score indicates the number of standard deviations from the average value. The Z-Score is determined by the following calculation:

$$Z\text{-Score} = (\text{Laboratory Test Result} - \text{Average Value}) / (\text{Standard Deviation})$$

The laboratory Rating calculation is based on the absolute value of the Z-Score (or number of standard deviations from the average). The following describes the laboratory Rating system:

- If Z-Score <= 1 Then Rating = 5
- If Z-Score > 1 And <= 1.5 Then Rating = 4
- If Z-Score > 1.5 And <= 2 Then Rating = 3
- If Z-Score > 2 And <= 2.5 Then Rating = 2
- If Z-Score > 2.5 And <= 3 Then Rating = 1
- If Z-Score > 3 Then Rating = 0

A negative sign on a Z-Score or Rating indicates that the laboratory's result was below the average, while a positive Z-Score or Rating indicates that the laboratory's result was above the average.

Maximum Specific Gravity (Gyratory)**Maximum Specific Gravity - T209/D2041**[View Youden Diagram](#) | [View Performance Chart](#)

		Sample 37					Sample 38					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
1	771	2.567	2.5639	0.0075	0.41	5	2.514	2.5150	0.0070	-0.14	-5	0.0056	-0.51	-5

Bulk Specific Gravity Saturated Surface-Dry Method (Gyratory)**Bulk Specific Gravity (Saturated Surface-Dry Method) - T166/D2726**[View Youden Diagram](#) | [View Performance Chart](#)

		Sample 37					Sample 38					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
2	754	2.475	2.4695	0.0134	0.41	5	2.409	2.4106	0.0095	-0.17	-5	0.0063	-0.80	-5

Bulk Specific Gravity Using Vacuum Sealing Method**Bulk Specific Gravity (Vacuum Sealing Method) - T331/D6752**[View Youden Diagram](#) | [View Performance Chart](#)

		Sample 37					Sample 38					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
3	160	2.468	2.4585	0.0172	0.56	5	2.407	2.4077	0.0117	-0.06	-5	0.0089	-0.81	-5

Hot Mix Asphalt Superpave Gyration Compactor**Height During Compaction after 8 gyrations (0.1 mm) - T312/D6925**[View Youden Diagram](#) | [View Performance Chart](#)

View Performance Chart														
Sample 37							Sample 38					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
4	763	125.6	125.53	1.03	0.07	5	124.1	123.86	0.74	0.33	5	0.56	0.22	5

Hot Mix Asphalt Superpave Gyration Compactor**Height During Compaction after 100 gyrations (0.1 mm) - T312/D6925**[View Youden Diagram](#) | [View Performance Chart](#)

view Performance Chart														
Sample 37							Sample 38				Repeatability(within-lab)			
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
5	764	116.6	116.21	0.81	0.48	5	116.1	115.64	0.57	0.81	5	0.41	0.13	5

Hot Mix Asphalt Superpave Gyration Compactor**Percent of Maximum Specific Gravity after 8 gyrations (0.1 percent) - T312/D6925**[View Youden Diagram](#) | [View Performance Chart](#)

		Sample 37					Sample 38					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
6	756	89.5	89.14	0.64	0.56	5	89.6	89.46	0.53	0.26	5	0.40	-0.40	-5

Hot Mix Asphalt Superpave Gyration Compactor**Percent of Maximum Specific Gravity after 100 gyrations (0.1 percent) - T312/D6925**[View Youden Diagram](#) | [View Performance Chart](#)

		Sample 37					Sample 38					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
7	754	96.4	96.31	0.60	0.15	5	95.8	95.85	0.46	-0.10	-5	0.35	-0.28	-5

** Ratings Suppressed

-- No Data Submitted or Data Out of Accepted Range



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