AMRL Hot Mix Asphalt Ignition Proficiency Sample Program
Final Report - March 2002

HOT MIX ASPHALT PROFICIENCY SAMPLES		SAMPLE NUMBER 3			SAMPLE NUMBER 4		
TEST RESULT	NO. LABS	AVG.	STAND. DEV.	COEFF. VAR.	AVG.	STAND. DEV.	COEFF. VAR.
AASHTO T308 / ASTM D6307: Asphalt Content Corrected Percent Asphalt (%)	394	4.055	0.16	4.00	4.248	0.18	4.23
	372	4.054	0.12	2.92	4.253	0.12	2.84
AASHTO T30 / ASTM D5444: Mechanical Analysis Total material passing the 12.5-mm sieve (%)	394	83.83	3.8	4.53	83.64	3.8	4.52
	384	83.98	1.5	1.80	83.82	1.5	1.74
Total material passing the 9.5-mm sieve (%)	394	65.97	3.0	4.56	66.08	3.0	4.55
	382	66.12	0.75	1.14	66.26	0.84	1.27
Total material passing the 4.75-mm sieve (%)	394	46.05	2.1	4.64	45.88	2.3	5.12
	379	46.05	0.60	1.31	45.96	0.76	1.65
Total material passing the 2.36-mm sieve (%)	393	31.12	3.3	10.5	29.91	3.4	11.4
	385	30.94	1.8	5.73	29.73	1.8	5.98
Total material passing the 1.18-mm sieve (%)	393	17.22	2.8	16.4	17.14	2.8	16.3
	377	17.06	0.98	5.76	16.97	0.70	4.10
Total material passing the 600-:m sieve (%)	393	10.26	1.8	17.7	10.27	1.8	17.1
	376	10.15	0.99	9.74	10.15	0.62	6.15
Total material passing the 300-:m sieve (%)	394	6.65	1.06	16.0	6.73	0.94	14.0
	374	6.61	0.81	12.24	6.69	0.54	8.07
Total material passing the 150-:m sieve (%)	393	4.38	0.83	18.9	4.51	0.81	17.9
	367	4.35	0.56	12.8	4.48	0.45	10.0
Total material passing the 75-:m sieve (%)	394	3.316	0.72	21.7	3.451	0.76	22.1
	369	3.311	0.45	13.6	3.432	0.41	12.0

NOTE: The rows in blue show results after removing outlying data. Ratings are based on the results shown in blue (Any outlying data have been removed).

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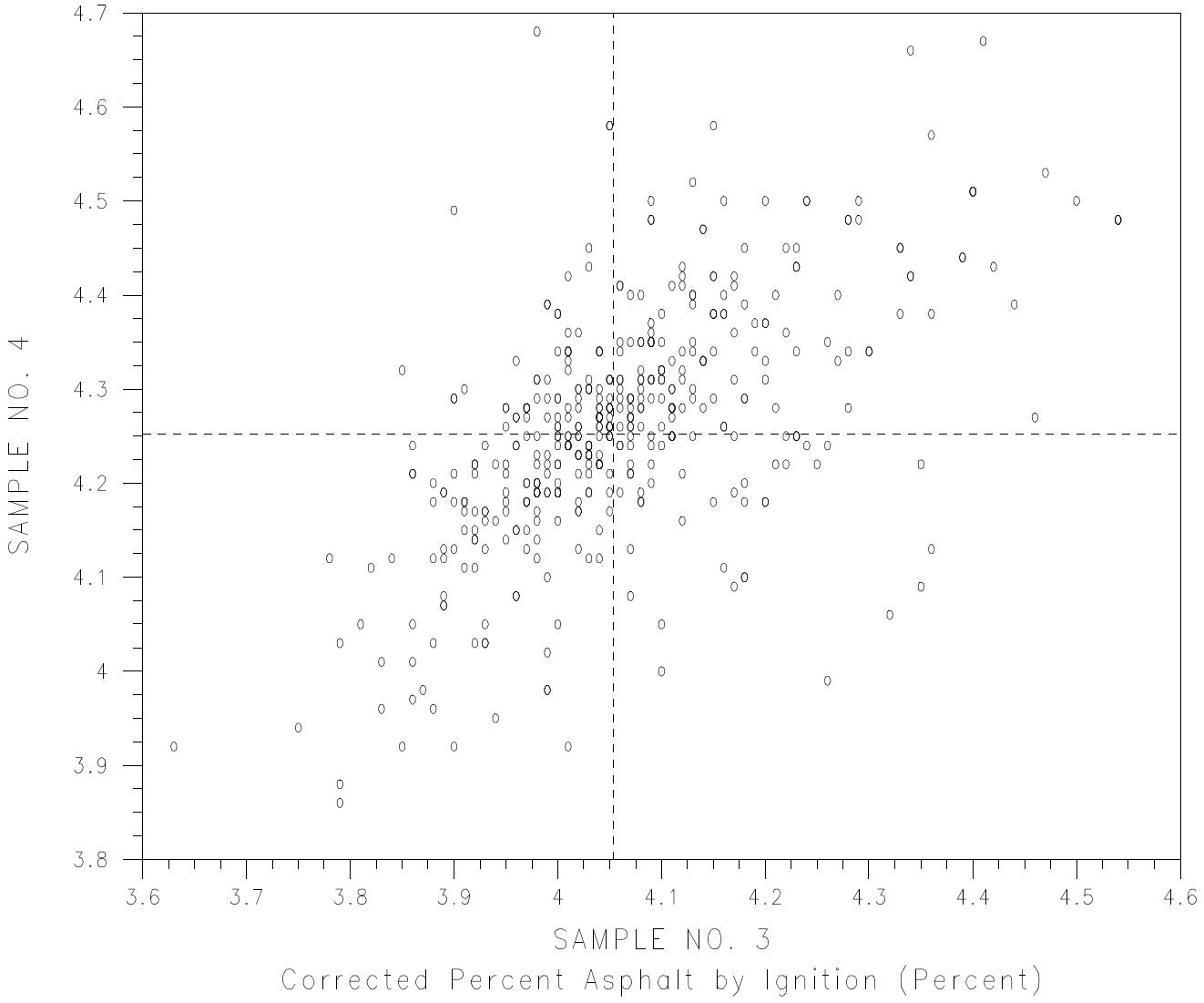
AMRL PROFICIENCY SAMPLE PROGRAM

HOT MIX ASPHALT IGNITION SAMPLE NOS. 3 & 4



Test No. 1 Percent Asphalt - Ignition 372 Points

Labs Eliminated: 50 519 565 860 1037 1124 1182 1201 1279 1393 1419 2106 3308 3554 3617 3779 3787 3823 3825 3910 3913 3986

Labs off the Diagram: None

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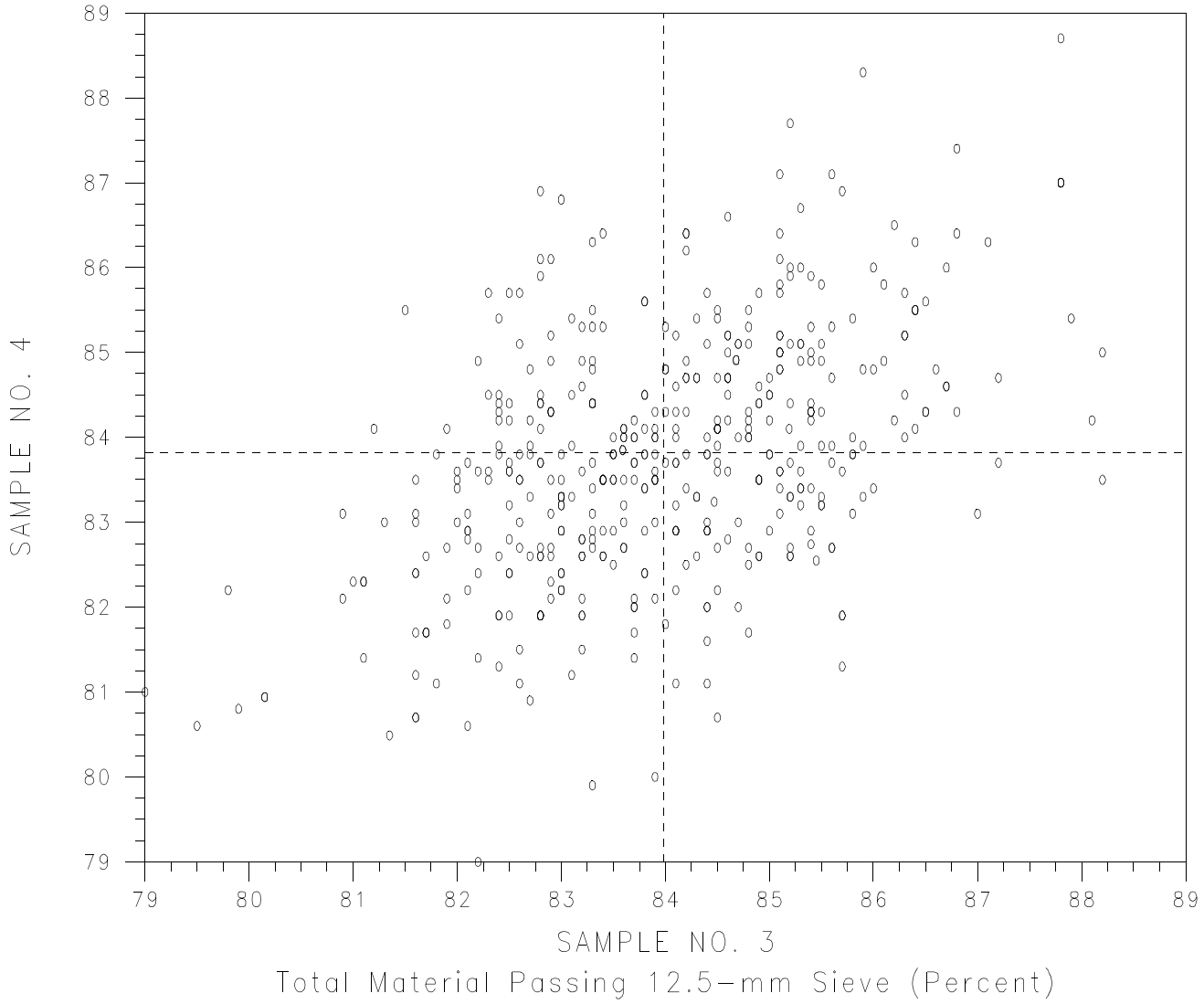
AMRL PROFICIENCY SAMPLE PROGRAM

HOT MIX ASPHALT IGNITION SAMPLE NOS. 3 & 4



Test No. 2 Passing 12.5-mm Sieve 384 Points

Labs Eliminated: 382 565 980 1030 1268 1393 1444 1467 3931 3975

Labs off the Diagram: None

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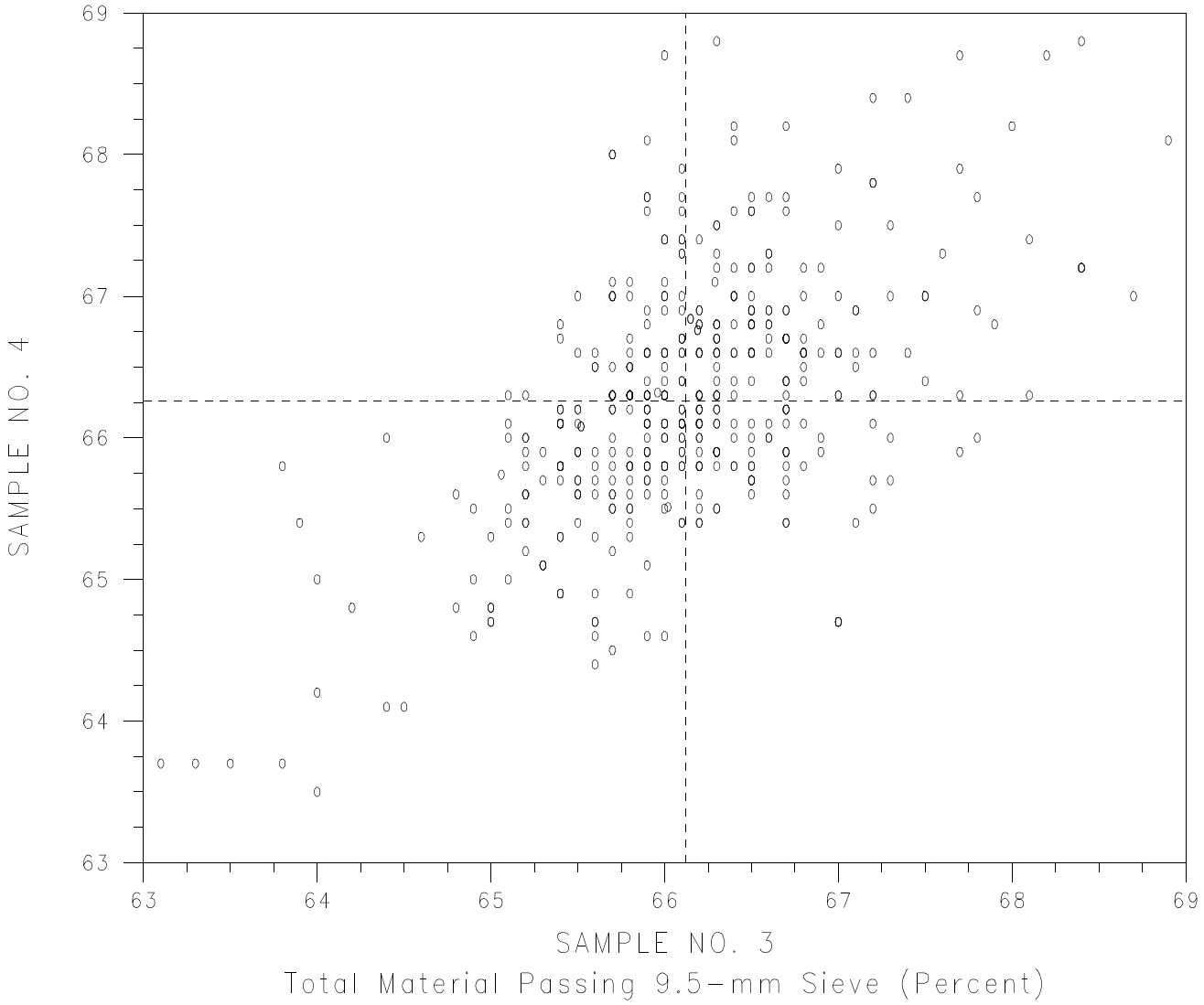
AMRL PROFICIENCY SAMPLE PROGRAM

HOT MIX ASPHALT IGNITION SAMPLE NOS. 3 & 4



Test No. 2 Passing 9.5-mm Sieve 382 Points

Labs Eliminated: 42 380 916 954 980 1155 1268 1280 3349 3475 3576 3623

Labs off the Diagram: None

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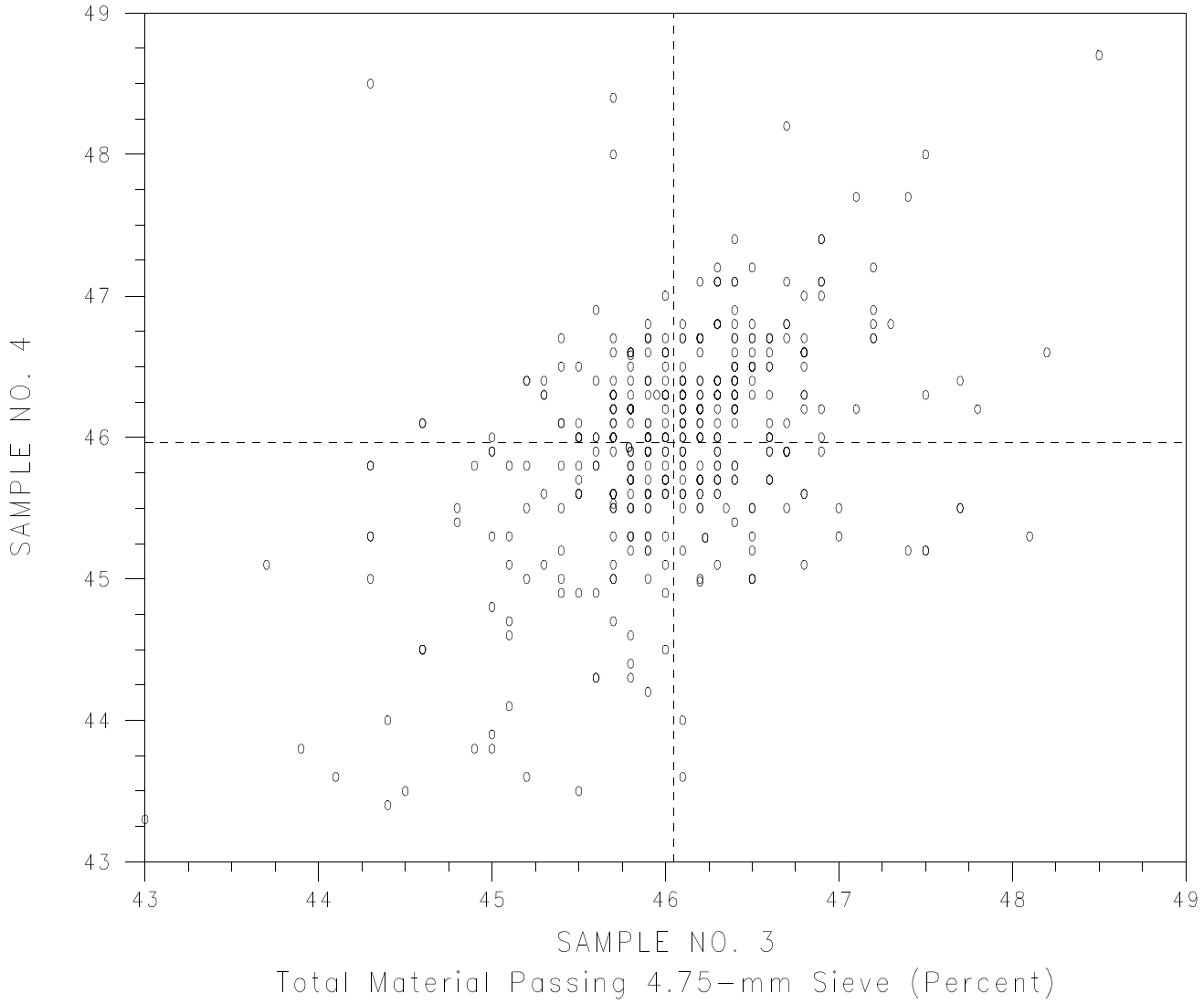
AMRL PROFICIENCY SAMPLE PROGRAM

HOT MIX ASPHALT IGNITION SAMPLE NOS. 3 & 4



Test No. 4 Passing 4.75-mm Sieve 379 Points

Labs Eliminated: 42 328 916 980 1268 1279 1280 1378 1393 1444 2106 3196 3224 3349 3913

Labs off the Diagram: None

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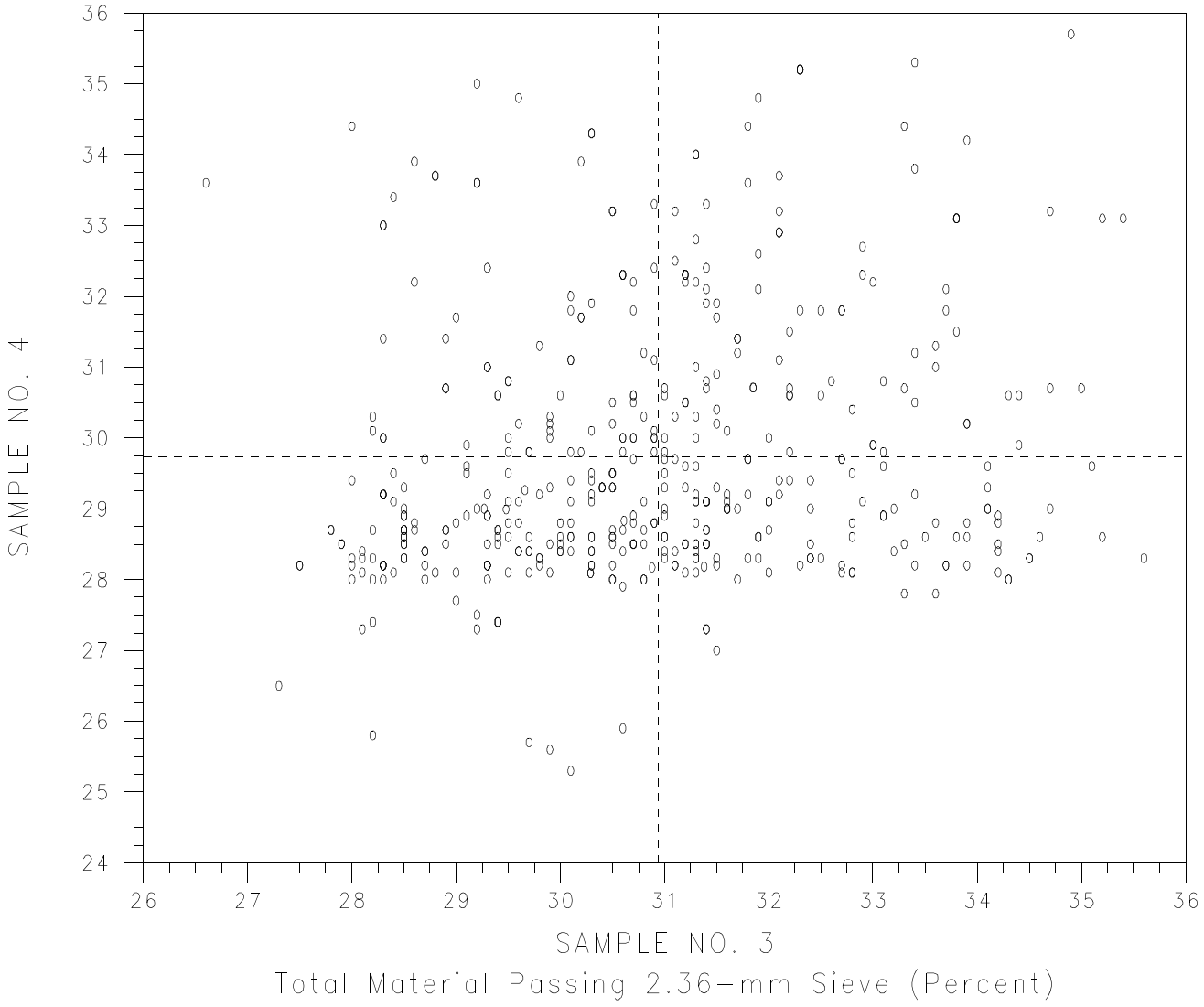
AMRL PROFICIENCY SAMPLE PROGRAM

HOT MIX ASPHALT IGNITION SAMPLE NOS. 3 & 4



Test No. 5 Passing 2.36-mm Sieve 385 Points

Labs Eliminated: 646 855 986 1057 1268 1393 2106 3623

Labs off the Diagram: None

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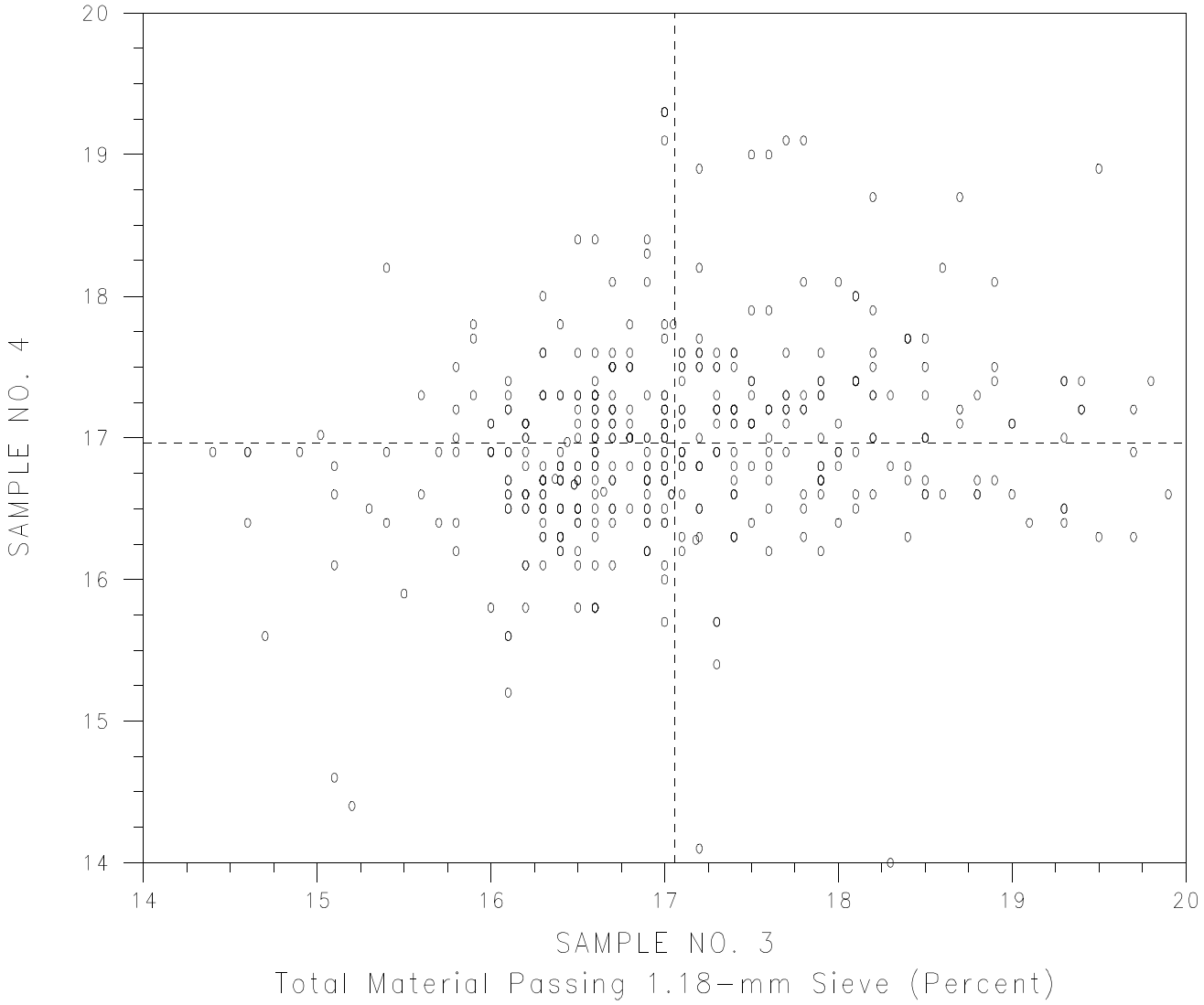
HOT MIX ASPHALT IGNITION SAMPLE NOS. 3 & 4



Test No. 6 Passing 1.18-mm Sieve 375 Points

Labs Eliminated: 380 646 916 986 1268 1279 1393 1466 1482 2093 3209 3248 3349 3458 3589 3910

Labs off the Diagram: 1522 3224

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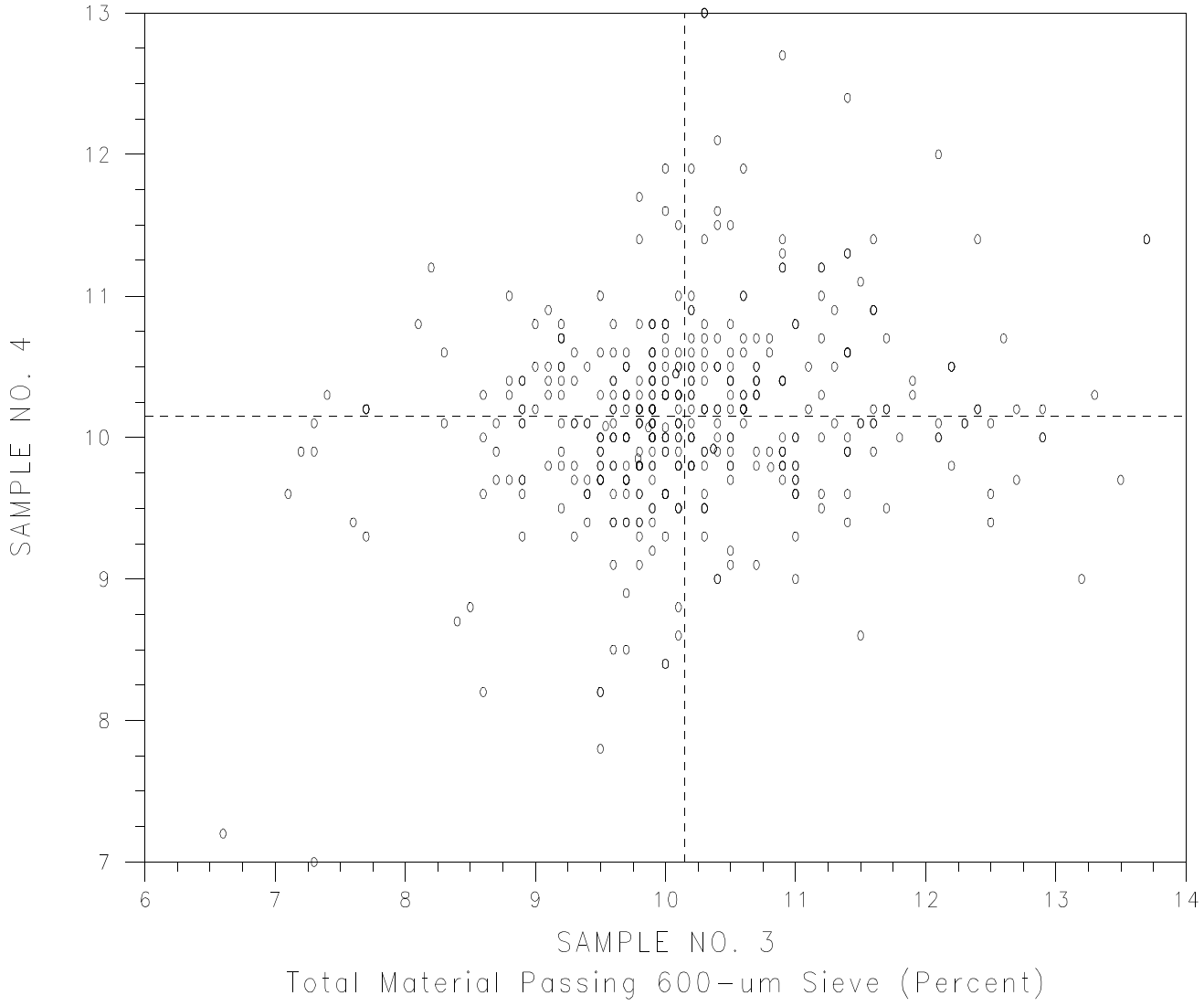
HOT MIX ASPHALT IGNITION SAMPLE NOS. 3 & 4



Test No. 7 Passing 600-:m Sieve 376 Points

Labs Eliminated: 380 646 936 986 1243 1268 1279 1393 1466 1482 2093 3209 3248 3458 3589 3908 3910

Labs off the Diagram: None

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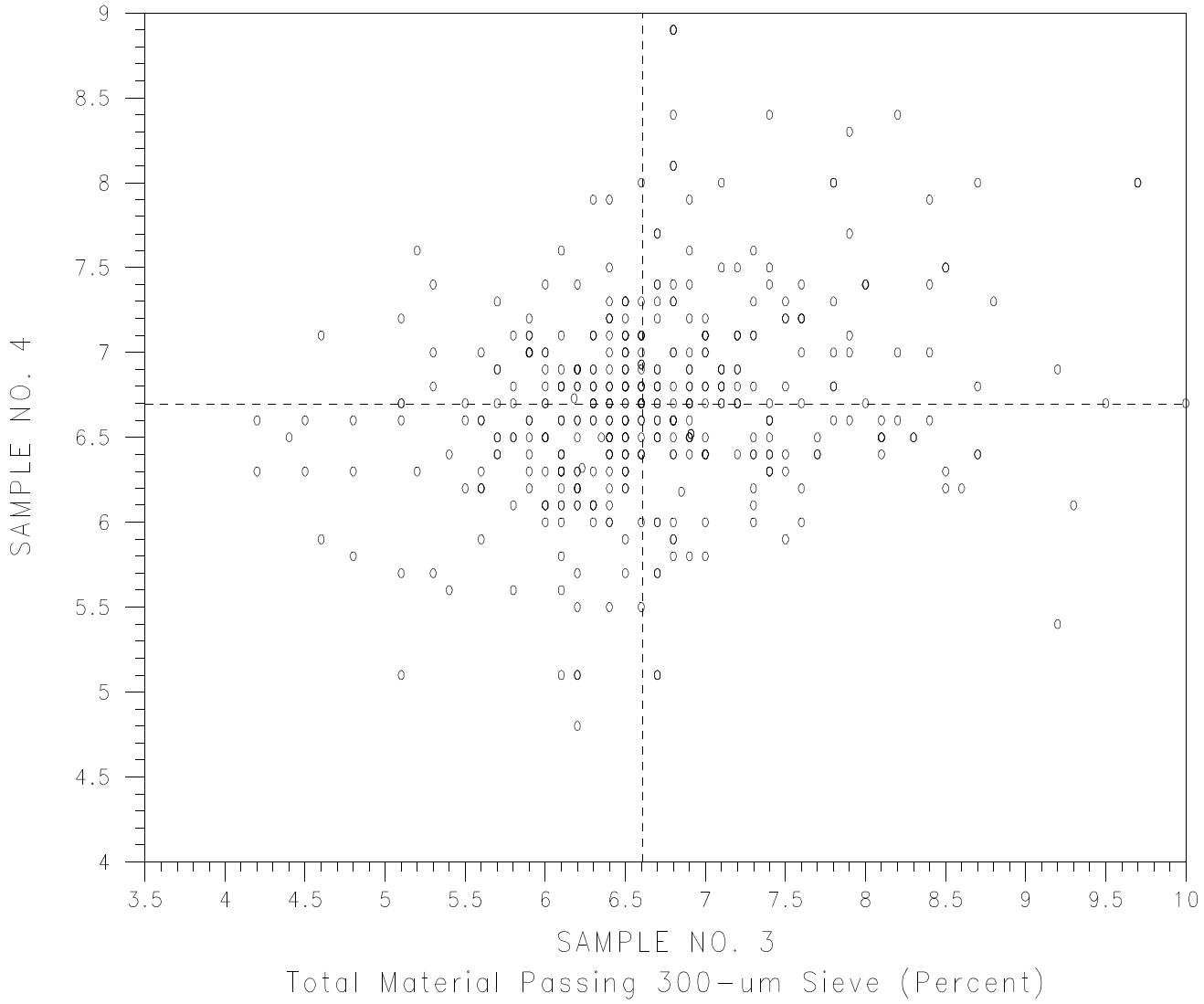
AMRL PROFICIENCY SAMPLE PROGRAM

HOT MIX ASPHALT IGNITION SAMPLE NOS. 3 & 4



Test No. 8 Passing 300-:m Sieve 374 Points

Labs Eliminated: 211 380 646 660 936 986 1155 1243 1279 1393 1466 1482 2093 3209 3248 3283 3458 3589 3908 3910

Labs off the Diagram: None

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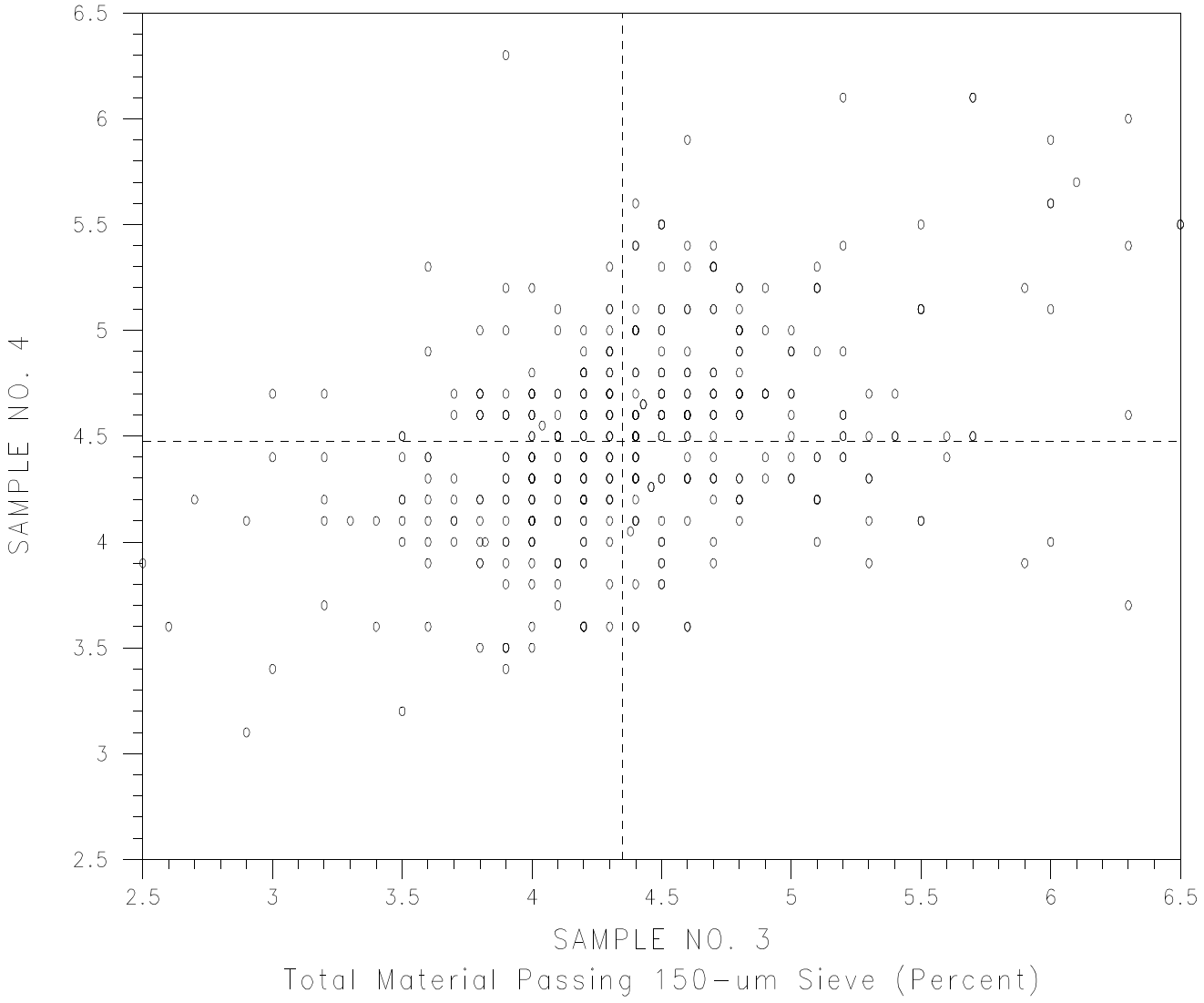
AMRL PROFICIENCY SAMPLE PROGRAM

HOT MIX ASPHALT IGNITION SAMPLE NOS. 3 & 4



Test No. 9 Passing 150-:m Sieve 367 Points

Labs Eliminated: 20 265 380 532 646 660 986 1110 1155 1279 1393 1466 1482 2093 3209 3248 3283 3329 3458 3554 3723 3789 3811 3908 3910 3947

Labs off the Diagram: None

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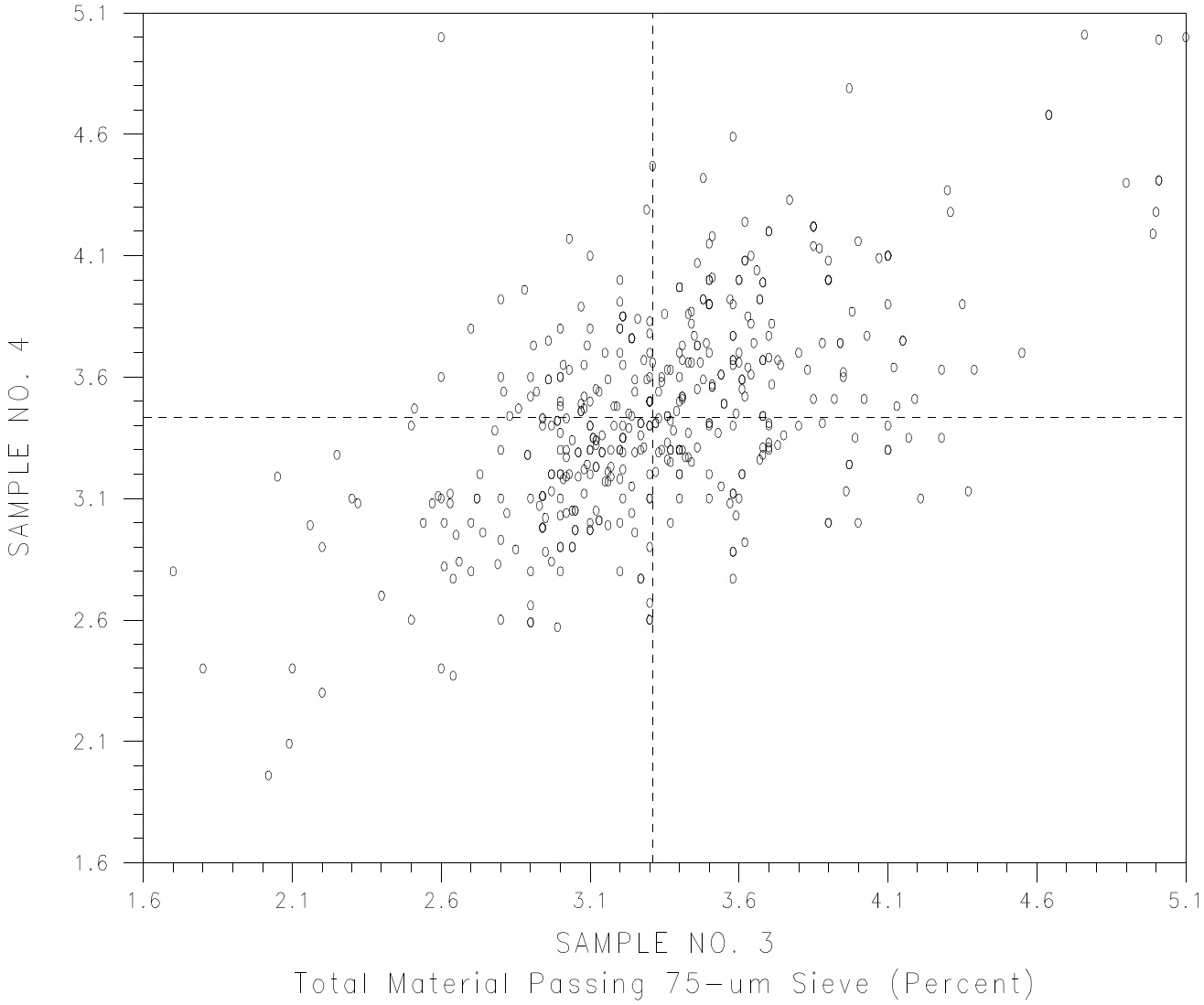
AMRL PROFICIENCY SAMPLE PROGRAM

HOT MIX ASPHALT IGNITION SAMPLE NOS. 3 & 4



Test No. 10 Passing 75-:m Sieve 369 Points

Labs Eliminated: 20 380 532 646 660 986 1110 1279 1393 1466 2093 3209 3248 3283 3456 3458 3554 3589 3666 3723 3789 3811 3908 3910 3947

Labs off the Diagram: None