SOIL PROFICIENCY SAMPLES		SAMPLE NUMBER 143			SAMPLE NUMBER 144		
TEST RESULT	NO. LABS	AVG.	STAND. DEV.	COEFF. VAR.	AVG.	STAND. DEV.	COEFF. VAR.
AASHTO T88/ASTM D422 Total Material Passing the 2.00-mm Sieve (%)	634	94.36	6.0	6.32	94.27	5.6	5.95
	618	95.03	4.2	4.41	94.85	4.2	4.46
Total Material Passing the 0.425-mm Sieve (%)	631	83.93	11.1	13.2	83.81	10.7	12.8
	610	85.20	8.4	9.89	84.99	8.4	9.93
Total Material Passing the 0.075-mm Sieve (%)	634	76.59	13.6	17.7	76.50	13.2	17.3
	618	77.84	11.1	14.2	77.66	11.0	14.2
Total Material Smaller than 0.02-mm (%)	568	51.93	10.5	20.2	51.46	10.5	20.3
	550	52.63	8.1	15.4	52.16	8.3	15.9
Total Material Smaller than 0.002-mm (%)	564	22.69	7.4	32.6	22.16	7.4	33.3
	551	22.03	5.4	24.5	21.51	5.3	24.8
Total Material Smaller than 0.001-mm (%)	557	18.10	6.6	36.6	17.73	6.5	36.9
	548	17.58	5.1	29.1	17.22	5.1	29.6
AASHTO T89/ASTM D4318 Liquid Limit	728	34.57	2.9	8.39	34.14	2.8	8.25
	718	34.65	2.5	7.16	34.18	2.3	6.64
AASHTO T90/ASTM D4318 Plastic Limit	729	19.67	2.3	11.9	19.78	2.2	11.3
	712	19.64	1.8	9.19	19.77	1.8	8.99
ASTM D427 Shrinkage Limit by Mercury method	72	15.95	3.5	21.7	16.11	3.7	23.2
	64	15.63	1.3	8.09	15.82	1.5	9.70
AASHTO T99/ASTM D698 Optimum Moisture Content (%)	711	14.47	1.4	9.82	14.47	1.5	10.09
	694	14.56	1.2	7.97	14.54	1.2	7.97
Maximum Density (lb/ft^3)	711	115.41	2.3	2.03	115.37	2.3	1.98
	700	115.42	1.8	1.52	115.36	1.7	1.47

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).

SOIL PROFICIENCY SAMPLES		SAMPLE NUMBER 143			SAMPLE NUMBER 144		
TEST RESULT	NO. LABS	AVG.	STAND. DEV.	COEFF. VAR.	AVG.	STAND. DEV.	COEFF. VAR.
AASHTO T100/ASTM D854 Specific Gravity at 20ºC	568	2.7189	0.079	2.89	2.7205	0.081	2.99
	552	2.7248	0.058	2.14	2.7270	0.058	2.12
AASHTO T190/ASTM D2844 R-Value at 300 psi exudation pressure	79	14.75	7.1	48.5	15.77	8.1	51.4
	75	13.75	5.7	41.7	14.62	6.2	42.4
AASHTO T193/ASTM D1883 California Bearing Ratio at 0.1 in.	225	4.52	2.5	55.8	4.31	2.3	54.4
	218	4.19	1.7	40.1	4.02	1.6	40.9
AASHTO T193/ASTM D1883 California Bearing Ratio at 0.2 in.	225	4.92	2.9	58.4	4.94	3.3	65.9
	217	4.51	1.8	39.6	4.47	1.8	39.3

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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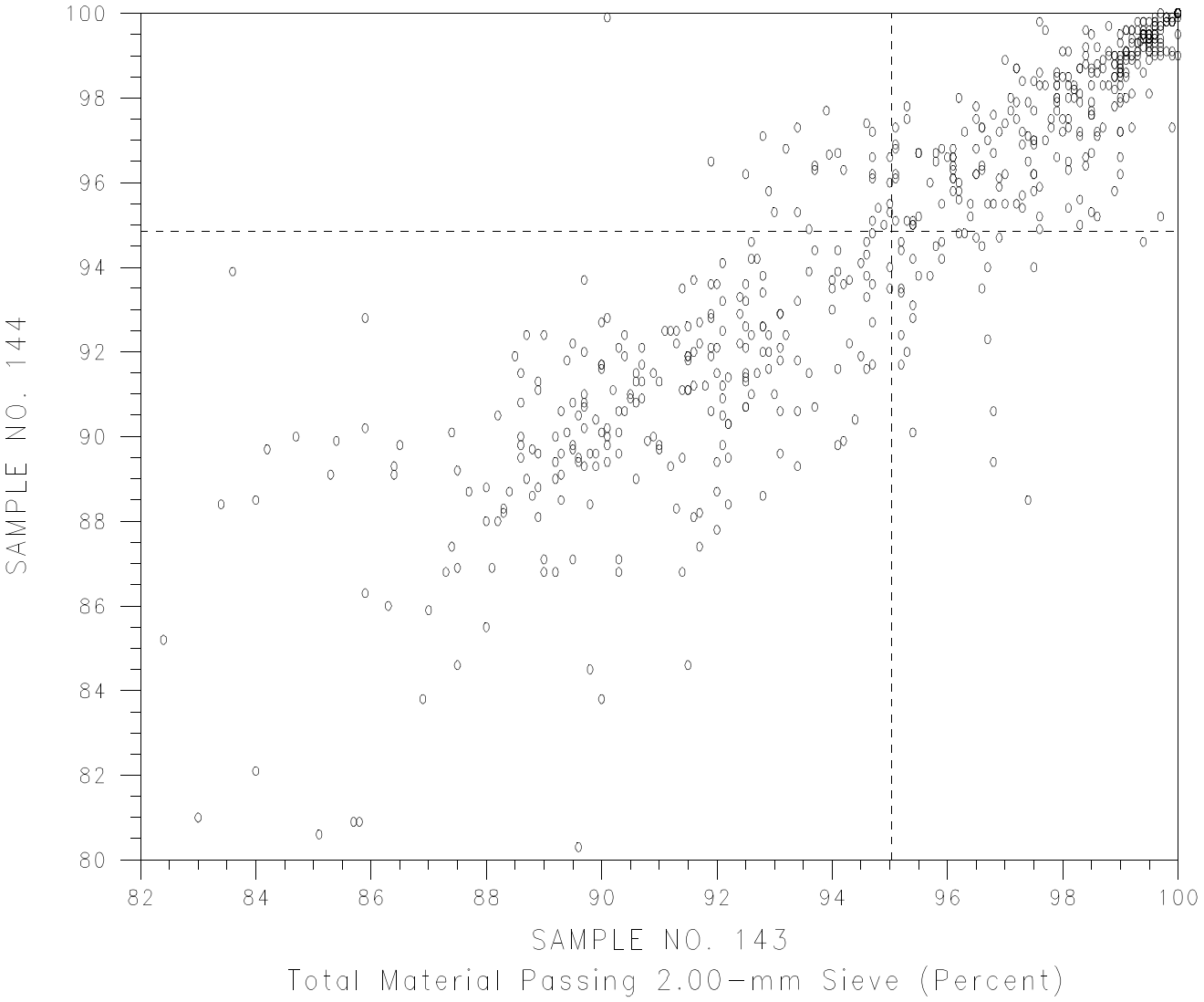
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 1 | Total Material Passing 2.00-mm Sieve (Percent) | 617 Points

Labs Eliminated: 212 471 520 523 946 1236 1408 1419 2073 3017 3135 3142 3364 3789 3919 3945

Labs off the Diagram: 3676

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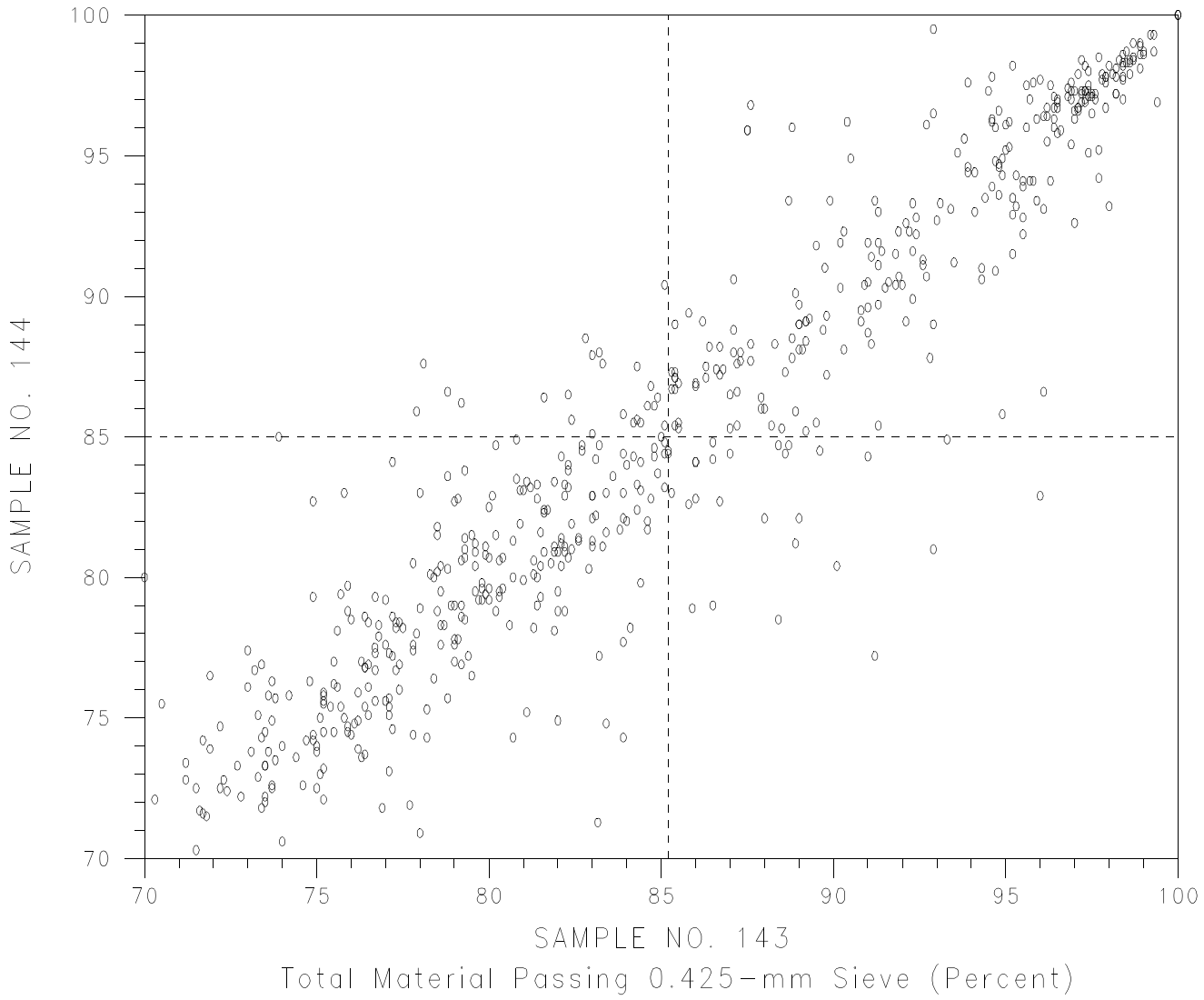
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 2 Total Material Passing 0.425-mm Sieve (Percent) 597 Points

Labs Eliminated: 212 265 471 520 523 1037 1279 1372 1419 2047 2056 2073 3017 3135 3142 3310 3364 3373 3789 3919 3945

Labs off the Diagram: 213 372 946 1434 1449 1522 2052 3118 3149

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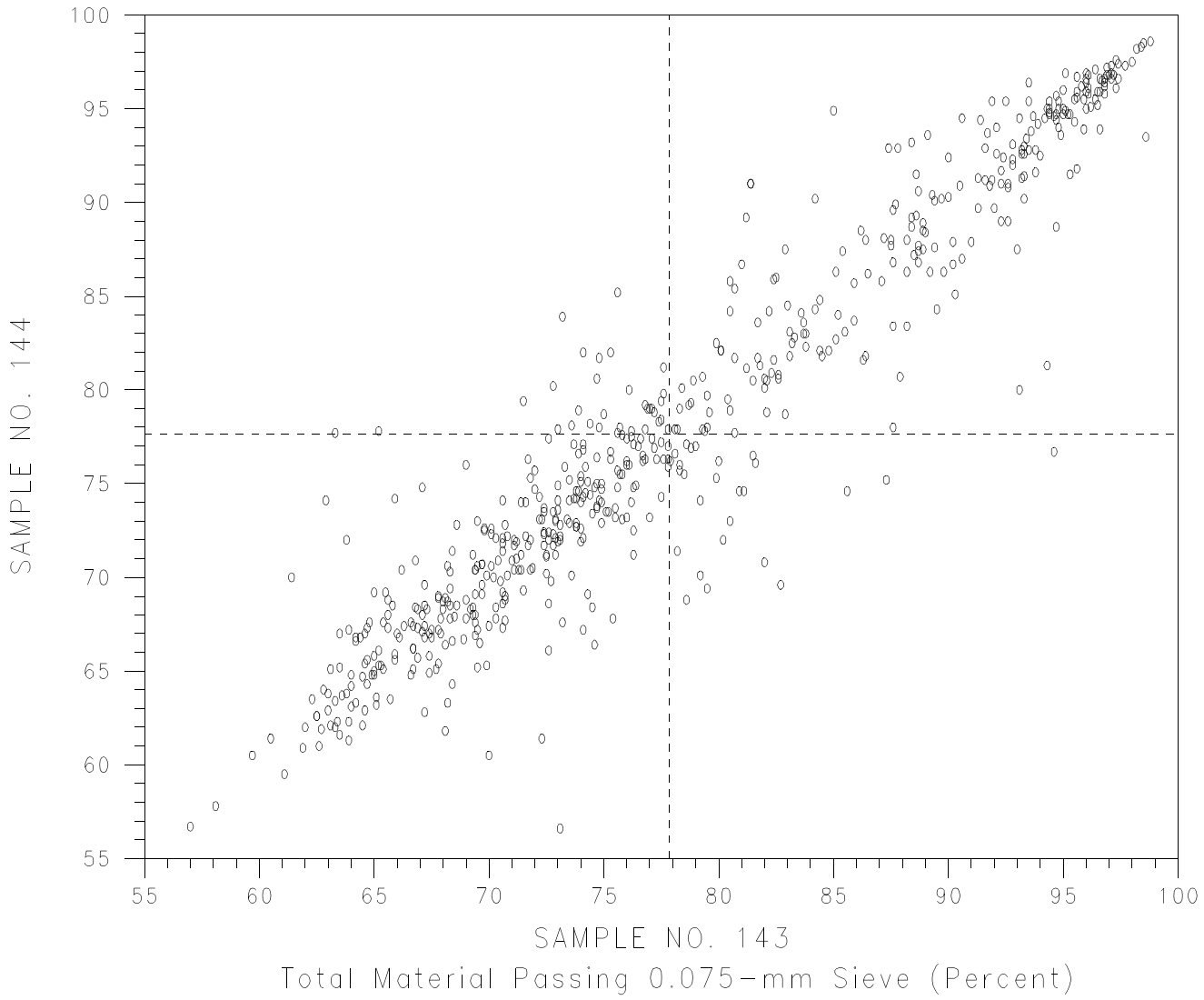
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 3 Total Material Passing 0.075-mm Sieve (Percent) 604 Points

Labs Eliminated: 265 471 520 523 1037 1279 1372 1419 3142 3230 3364 3373 3739 3789 3919 3945

Labs off the Diagram: 212 712 946 1247 1315 1382 1434 1449 1484

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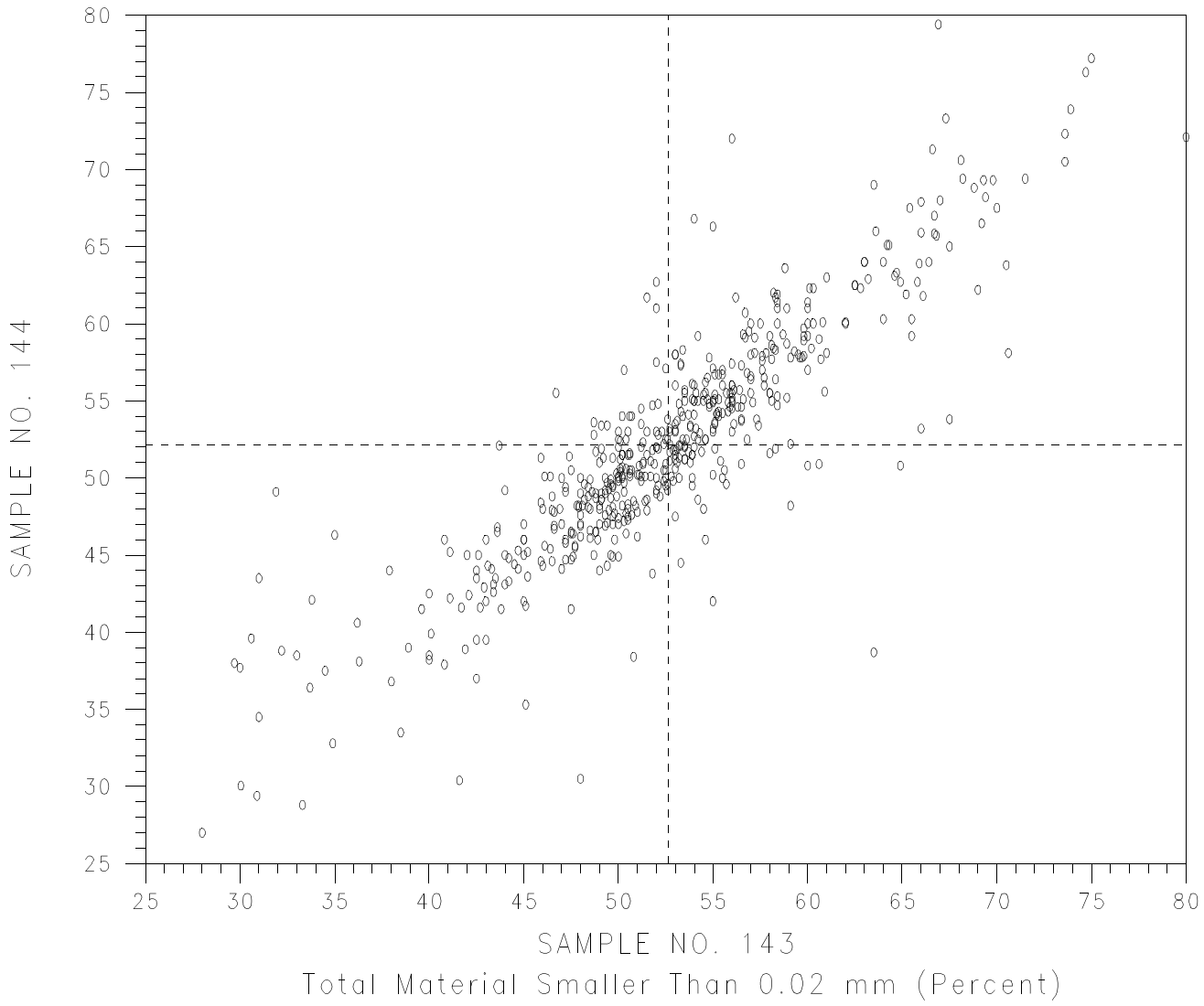
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 4 | Total Material Smaller Than 0.02 mm (Percent) | 543 Points

Labs Eliminated: 471 520 640 1279 1372 1419 1421 1790 2047 3082 3364 3373 3566 3617 3652 3728 3739 3945

Labs off the Diagram: 523 949 1037 3855 3909 3977 3986

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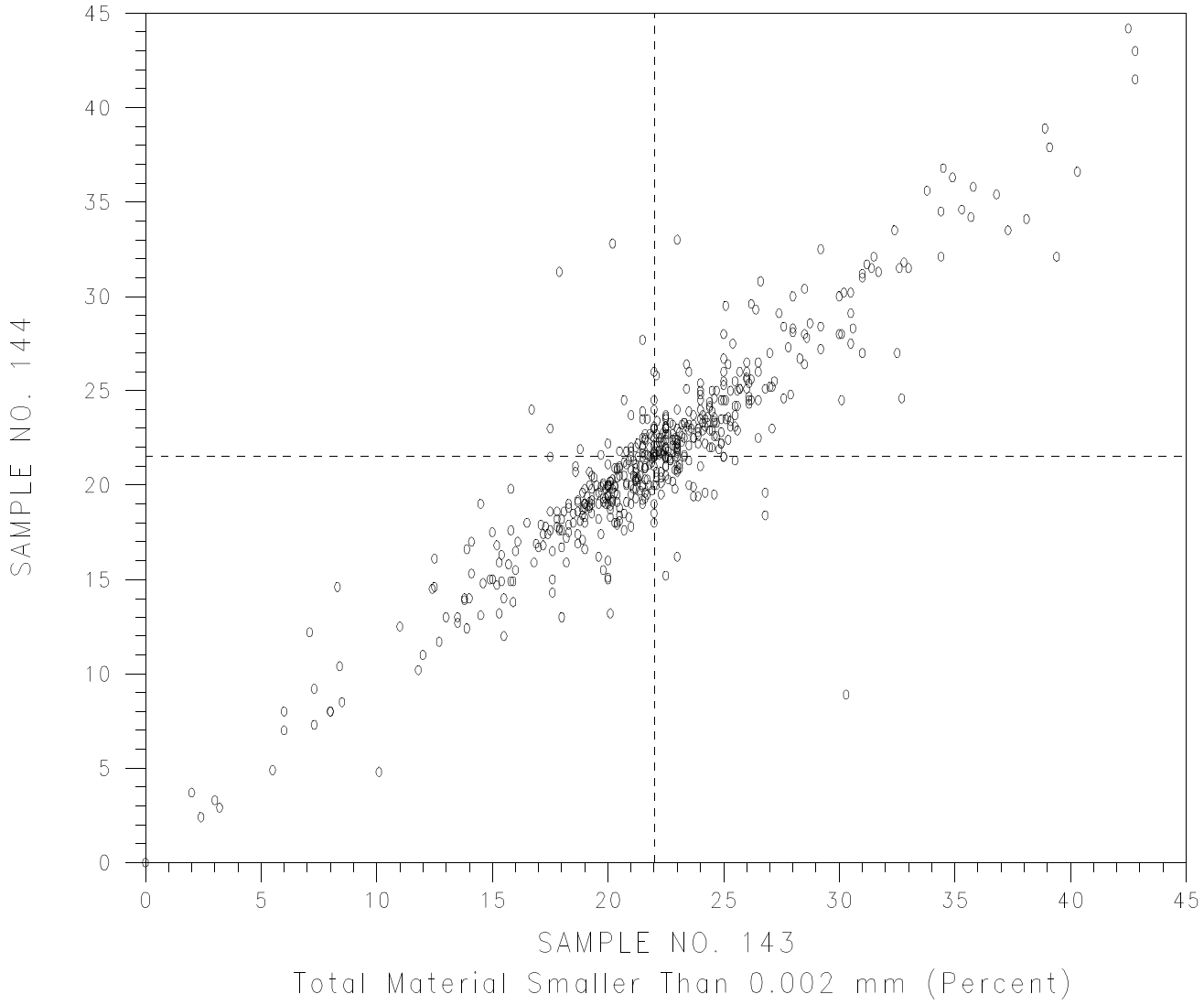
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



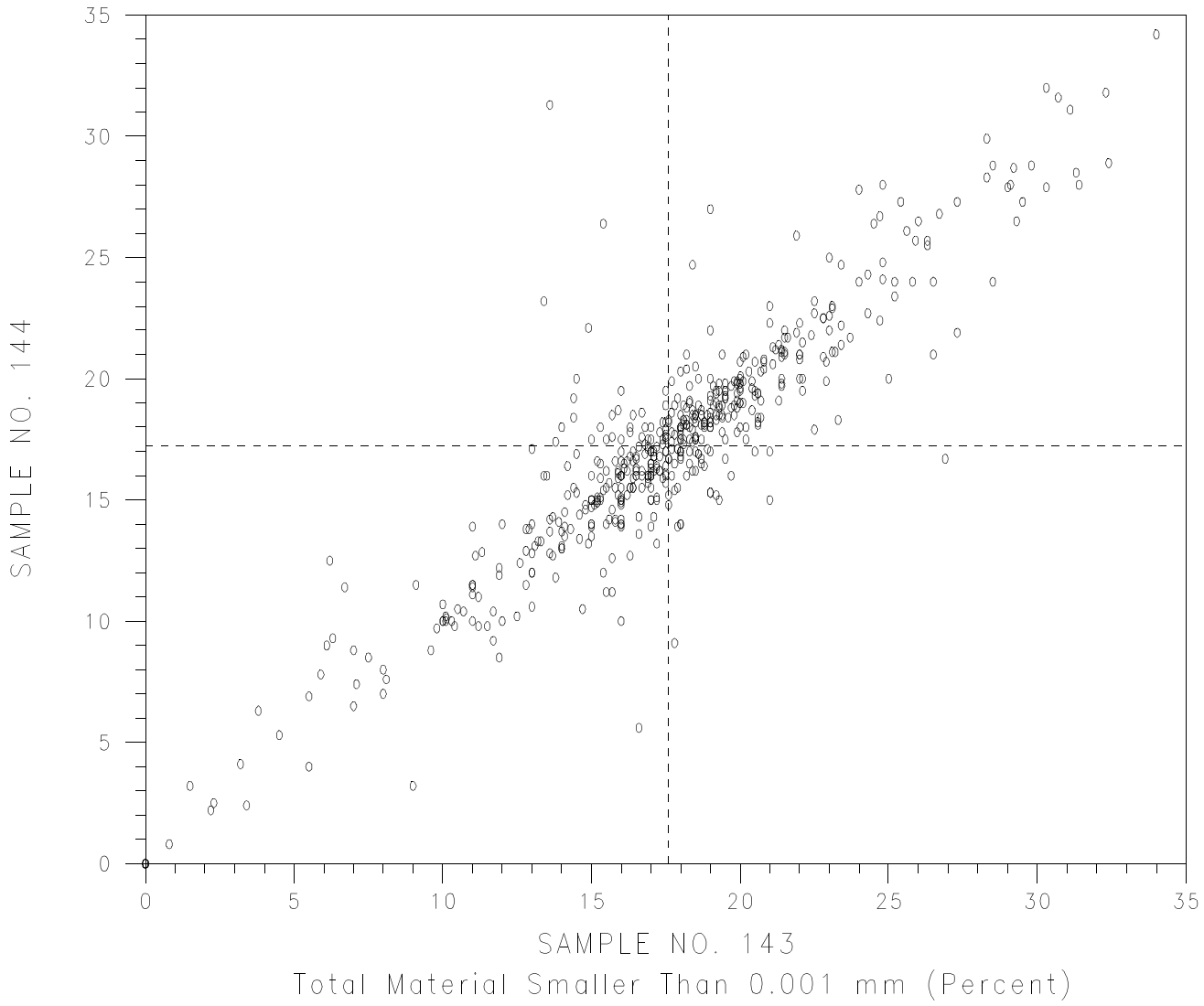
Test No. 5 | Total Material Smaller Than 0.002-mm (Percent) | 551 Points

Labs Eliminated: 1139 1421 1493 3566 3617 3623 3756 3822 3855 3909 3919 3977 3982

October 2001

AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 6 | Total Material Smaller Than Than 0.001-mm (Percent) | 546 Points

Labs Eliminated: 1139 1238 3566 3617 3756 3855 3909 3977 3982

Labs off the Diagram: 3269 3919

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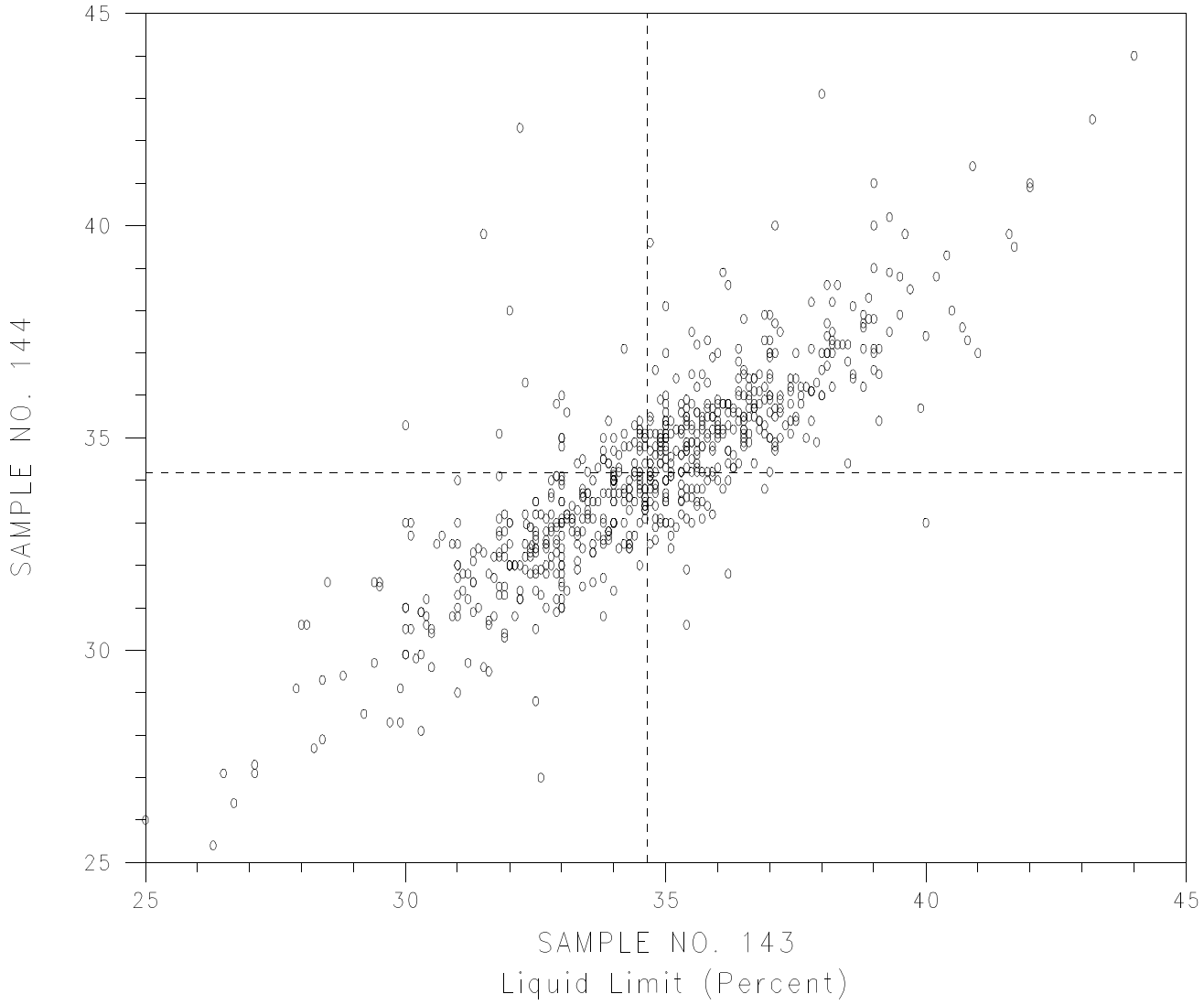
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 7 Liquid Limit 718 Points

Labs Eliminated: 1247 1352 1434 3229 3671 3756 3789 3833 3875 3910

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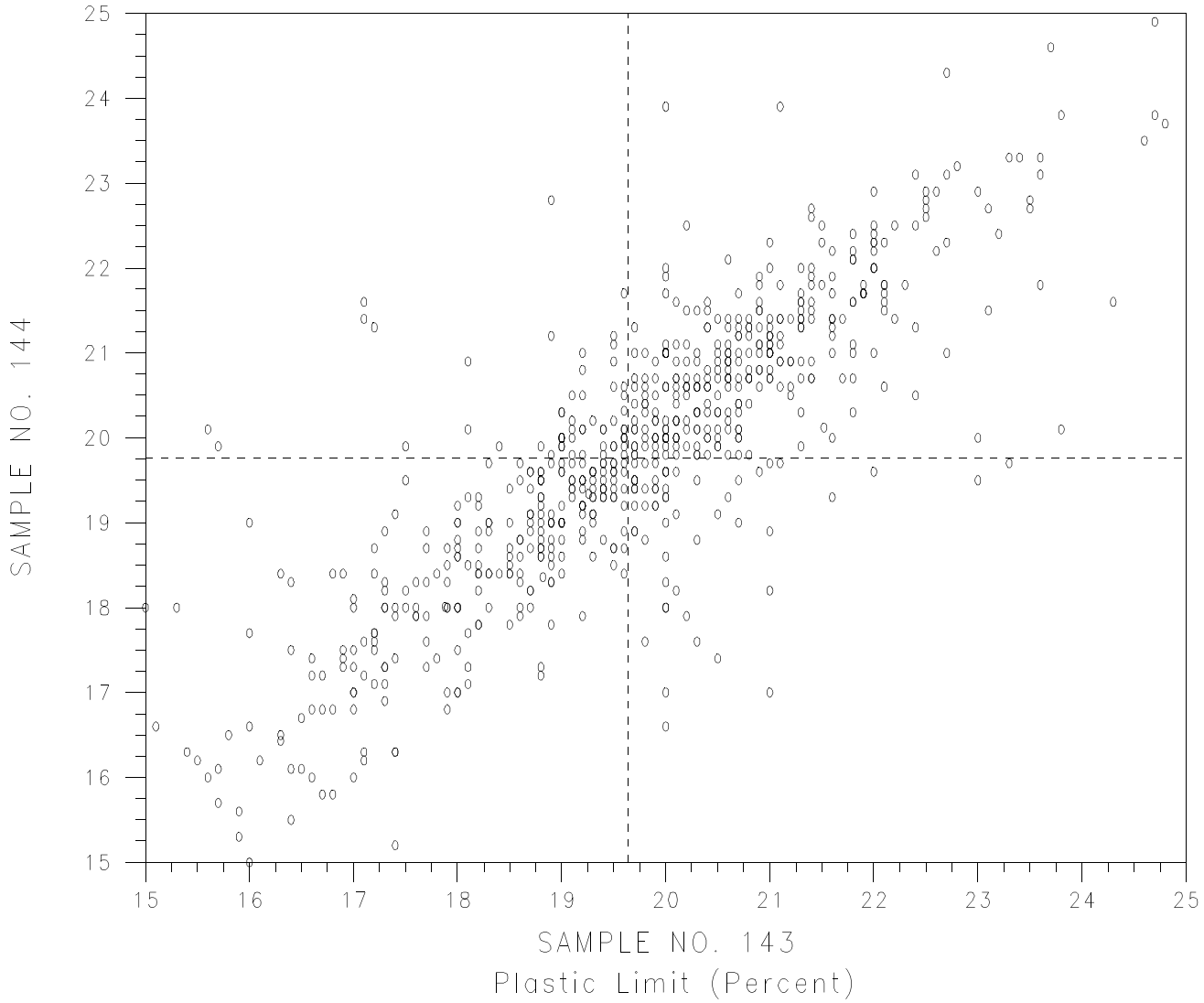
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 8 Plastic Limit (Percent) 697 Points

Labs Eliminated: 1106 1115 1238 1302 1434 1448 3149 3229 3520 3623 3739 3745 3787 3833 3875 3885 3890

Labs off the Diagram: 268 813 1122 1164 1247 1279 1289 1440 2005

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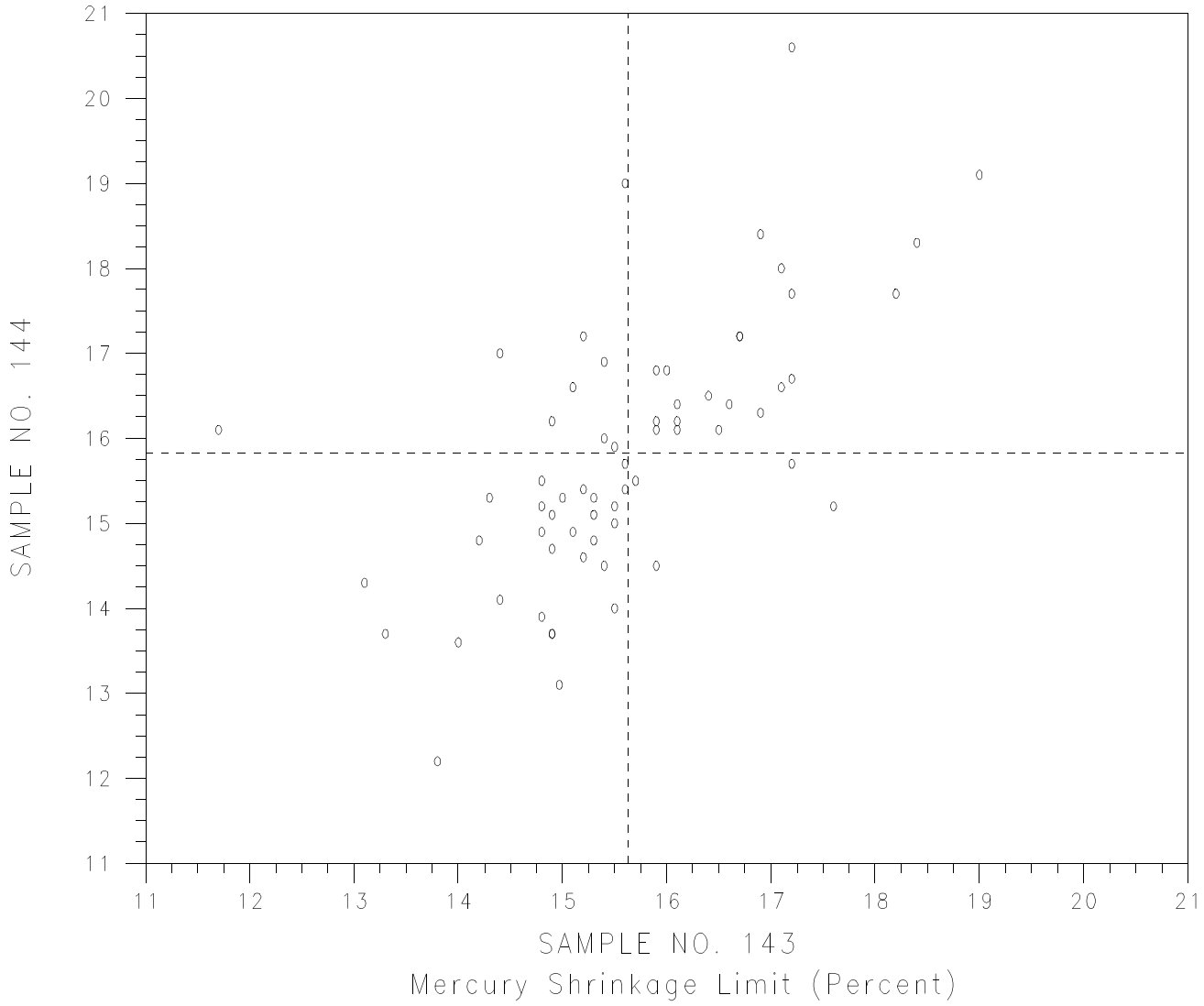
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 9 Mercury Shrinkage Limit (Percent) 64 Points

Labs Eliminated: 192 564 575 1372 1705 3373 3739 3982

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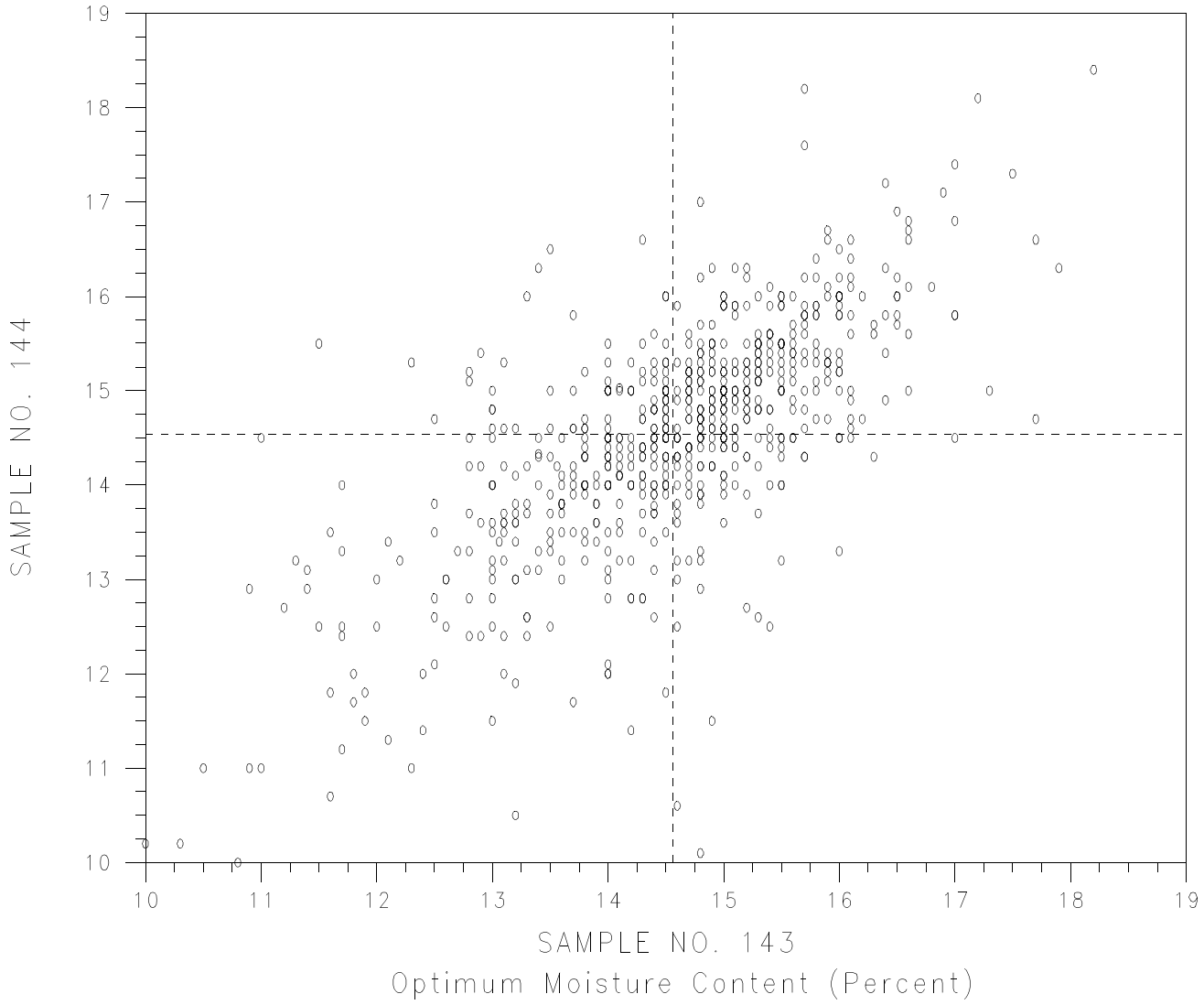
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 10 Optimum Moisture Content (Percent) 694 Points

Labs Eliminated: 678 929 1265 1284 1388 1442 2069 3068 3078 3131 3435 3542 3544 3671 3756 3846 3857

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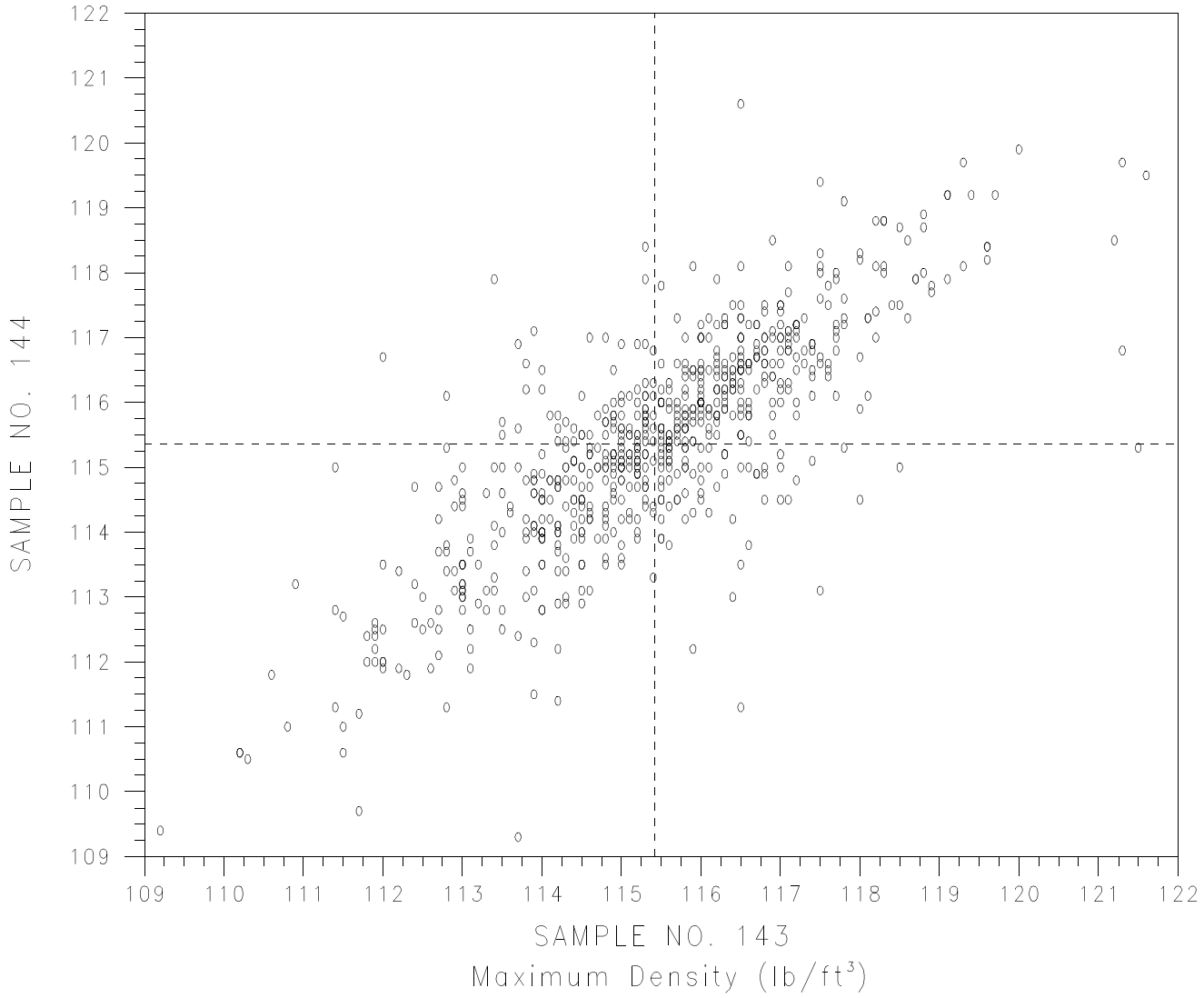
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 11 Maximum Density (lb/ft³) 698 Points

Labs Eliminated: 401 1243 1247 1397 1434 1591 1790 2069 3671 3709 3756

Labs off the Diagram: 367 3658

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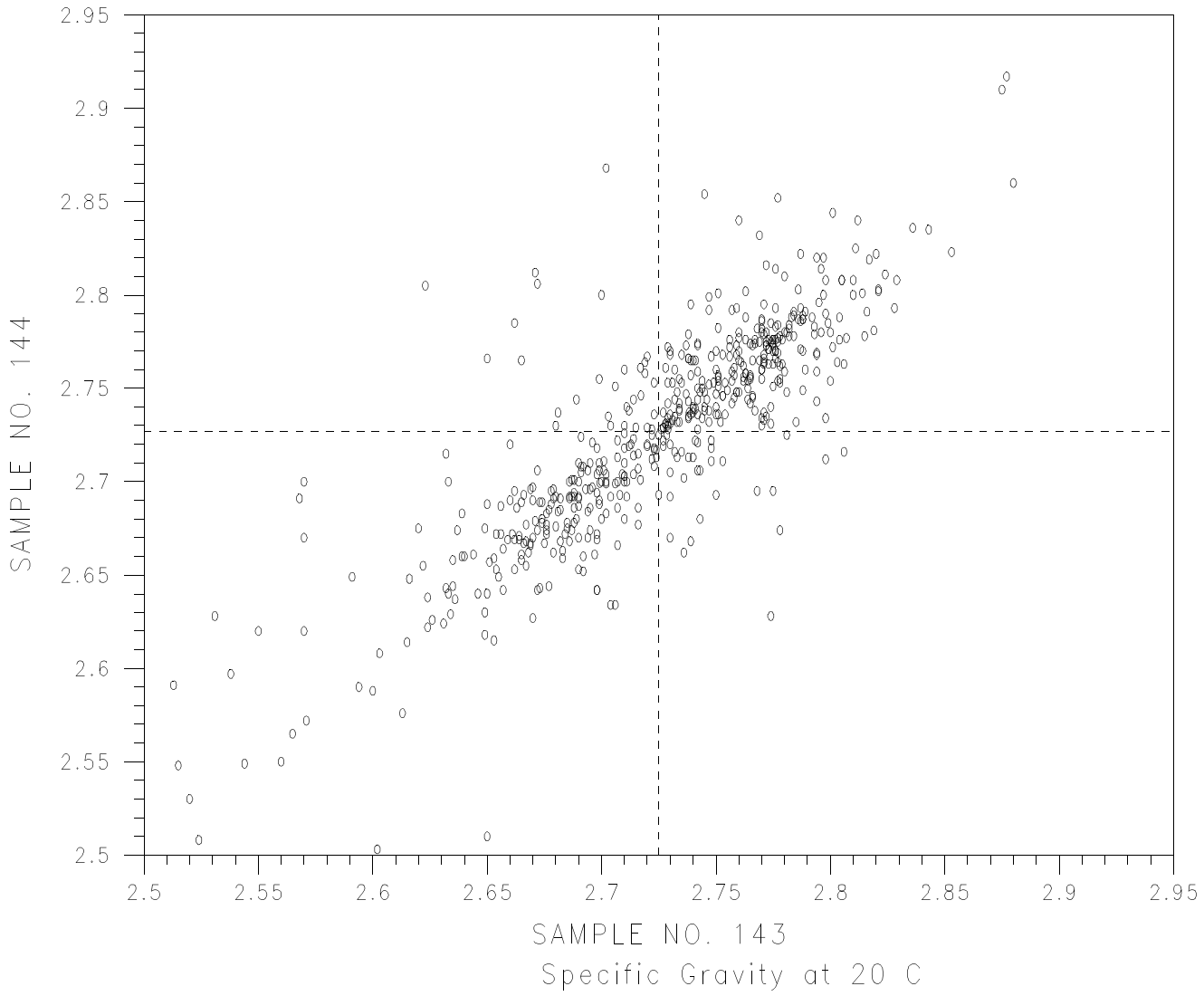
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 12 Specific Gravity at 20NC 552 Points

Labs Eliminated: 523 929 1313 1378 1431 3084 3101 3230 3330 3435
3739 3772 3857 3898 3909 3977

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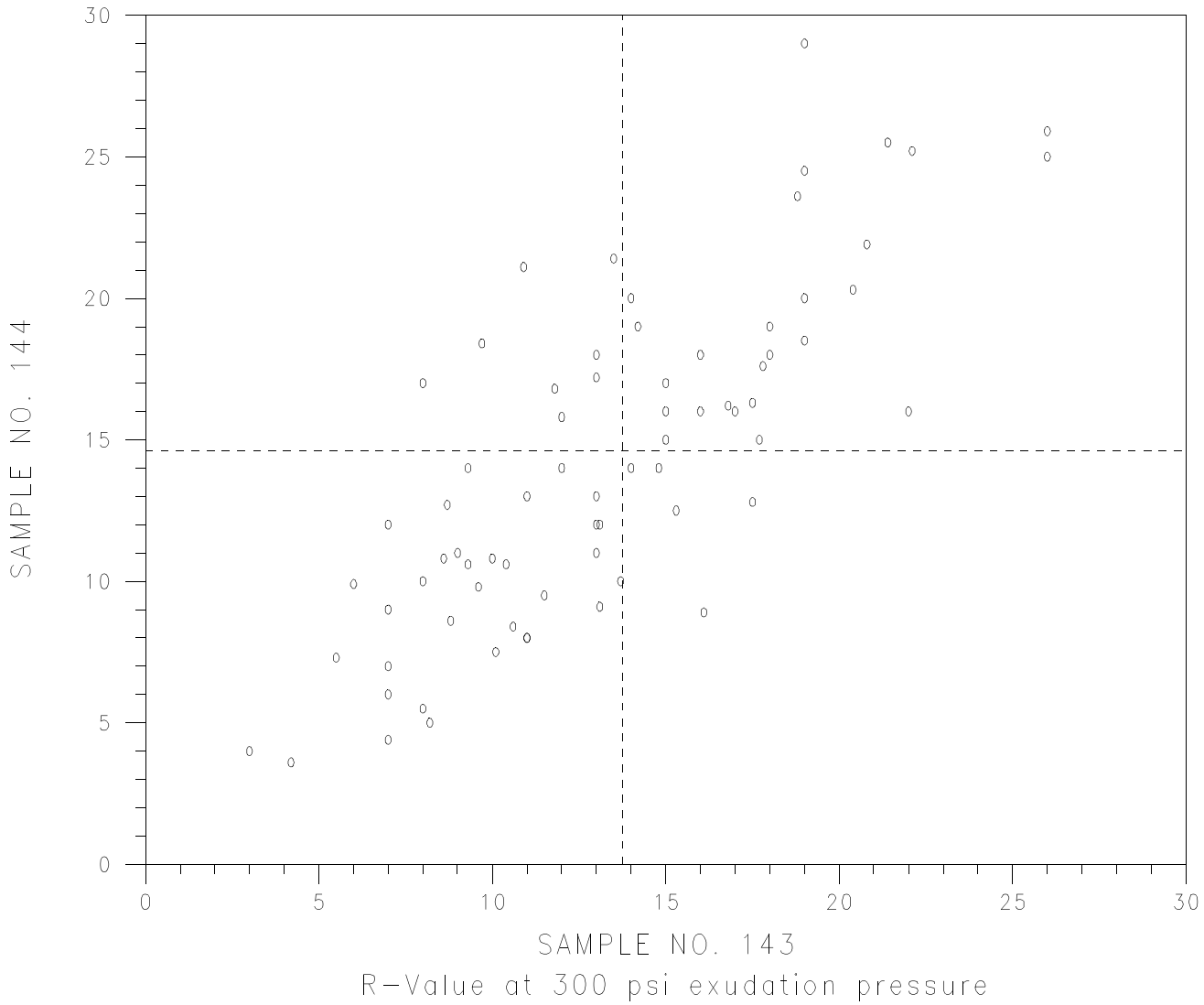
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 13 R-Value at 300 psi exudation pressure 73 Points

Labs Eliminated: 44 1313 3245 3647

Labs off the Diagram: 3 1790

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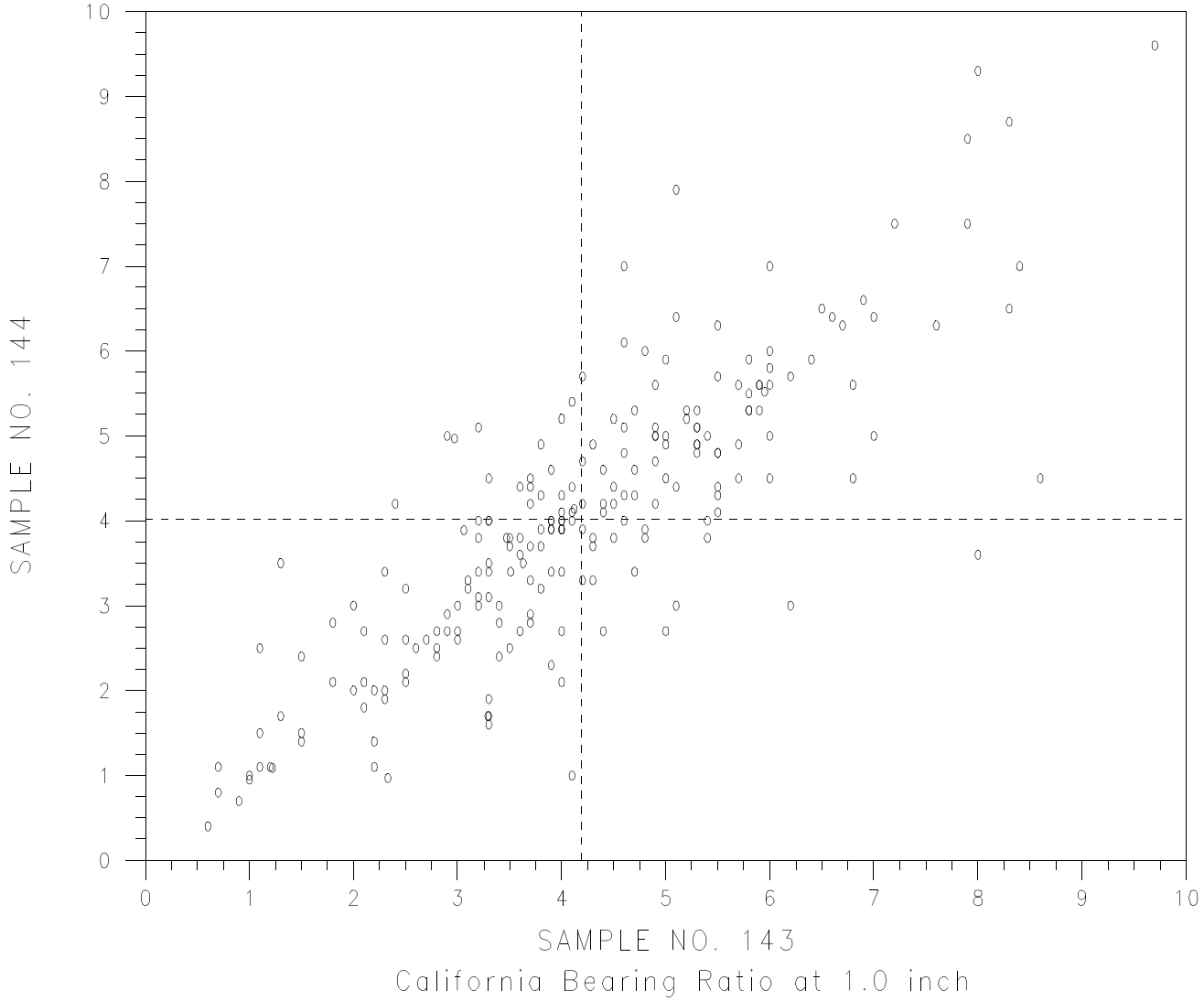
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 14 California Bearing Ratio at 0.1 inch 218 Points

Labs Eliminated: 397 648 1070 1419 1442 1460 1466

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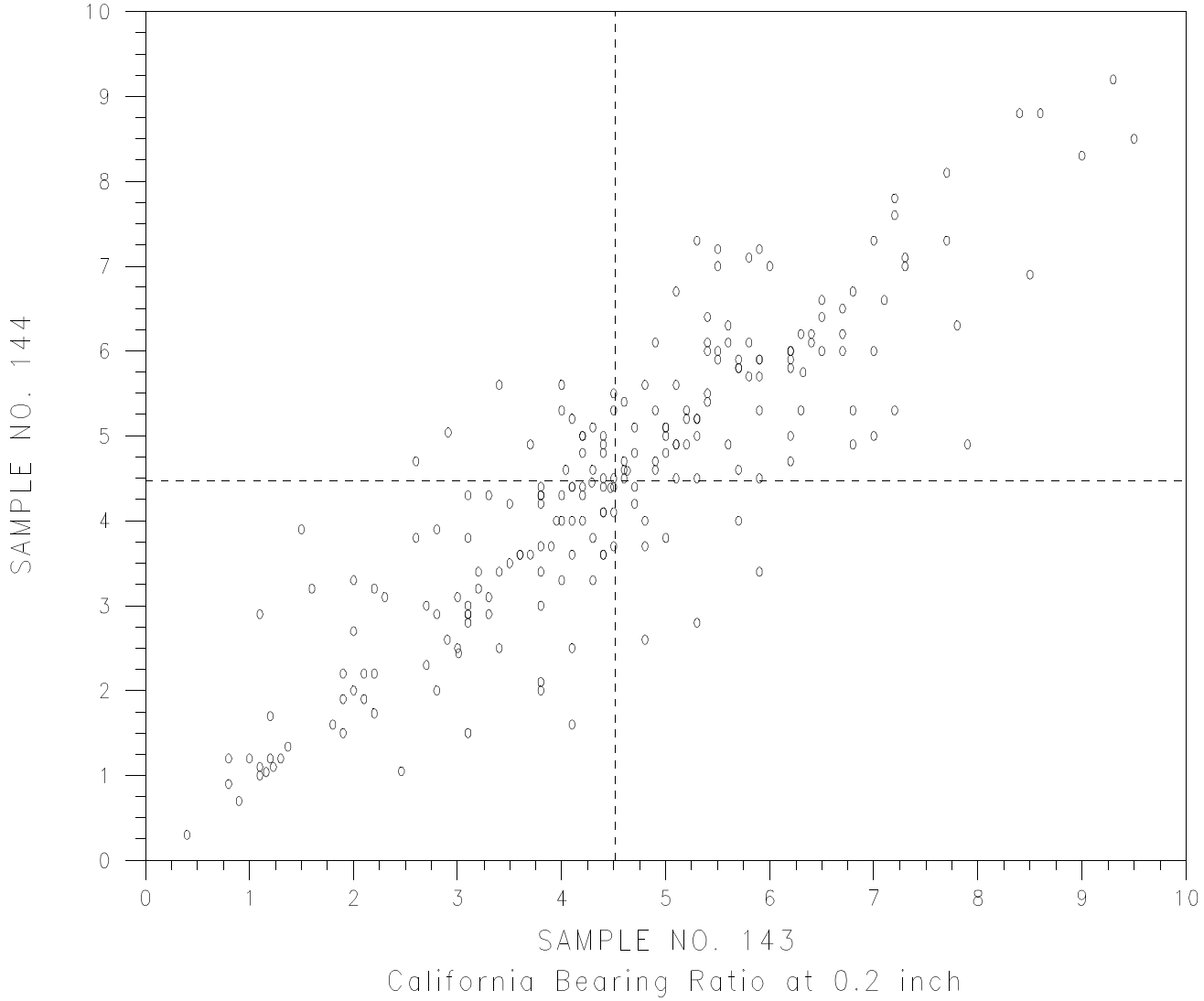
AMRL PROFICIENCY SAMPLE PROGRAM

SOIL SAMPLE NOS. 143 & 144



Test No. 15 California Bearing Ratio at 0.2 inch 217 Points

Labs Eliminated: 397 648 1070 1279 1419 1442 1460 1466