

Soil: 24077
(subsample 24077,9)
D.S. McKay PI

LOCATION COMMENTS:

Sample collected from the Luna 24 site in the Sea of Crises. The site was 17 km from a large crater 10 km in diameter and 2 km deep, and the hope was to obtain ejecta samples. A core was drilled to a depth of approximately 2 meters. U.S. scientists were given samples totalling 3 grams; these were divided into 6 soil samples and one rock fragment. The Moscow Institute of Geochemistry reports that the Luna 24 soil included more large grains than the Luna 16 soils.

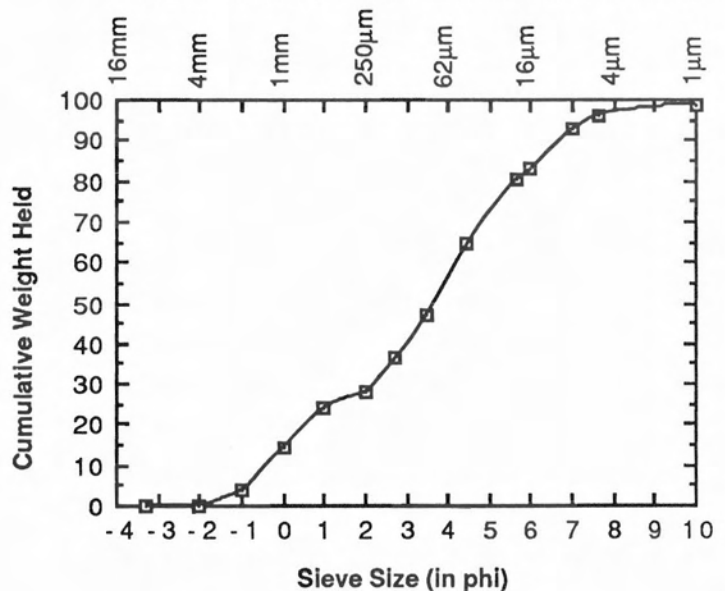
MATURITY INDEX:

$I_s/FeO = 39$ (submature)

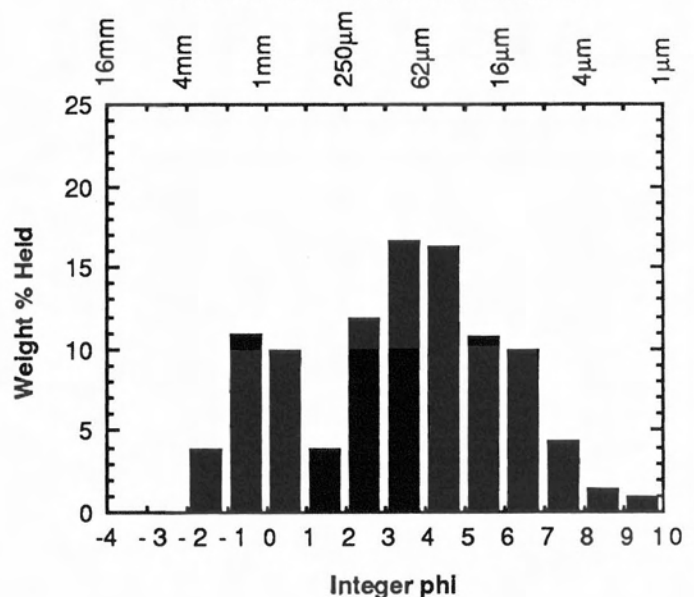
TABULATED SIEVE DATA

Sieve Size (μm)	Wt %
10000.00	0.00
4000.00	0.00
2000.00	3.69
1000.00	10.84
500.00	9.85
250.00	3.69
150.00	8.22
90.00	10.57
45.00	17.86
20.00	15.50
16.00	2.46
8.00	9.86
5.00	3.72
1.00	2.74

CUMULATIVE WEIGHT DISTRIBUTION CURVE



SIZE DISTRIBUTION HISTOGRAM



GRAPHIC AND MOMENT MEASURES

Mean:	3.31
Median:	3.66
Mode:	3.50
Sorting:	2.74
Skewness:	-0.14
Kurtosis:	0.84

MOMENT MEASURE DATA

Wt % held	ϕ size
5	-0.85
16	0.14
25	1.15
50	3.66
75	5.18
84	6.12
95	7.37

Soil: 24109
(subsample 24109,13)
D.S. McKay PI

LOCATION COMMENTS:

Sample collected from the Luna 24 site in the Sea of Crises. The site was 17 km from a large crater 10 km in diameter and 2 km deep, and the hope was to obtain ejecta samples. A core was drilled to a depth of approximately 2 meters. U.S. scientists were given samples totalling 3 grams; these were divided into 6 soil samples and one rock fragment. The Moscow Institute of Geochemistry reports that the Luna 24 soil included more large grains than the Luna 16 soils.

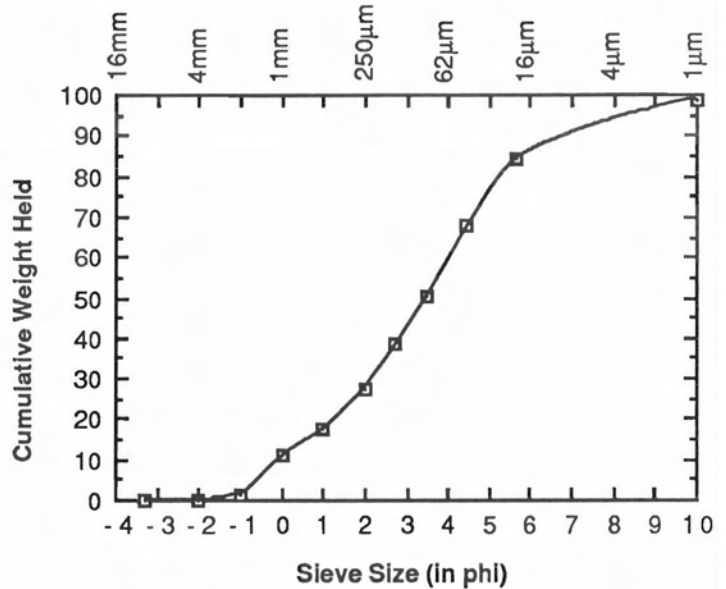
MATURITY INDEX:

$I_g/FeO = 31$ (submature)

TABULATED SIEVE DATA

Sieve Size (μm)	Wt %
10000.00	0.00
4000.00	0.00
2000.00	1.41
1000.00	9.59
500.00	6.77
250.00	9.87
150.00	10.70
90.00	11.90
45.00	17.86
20.00	16.52
1.00	14.38

CUMULATIVE WEIGHT DISTRIBUTION CURVE



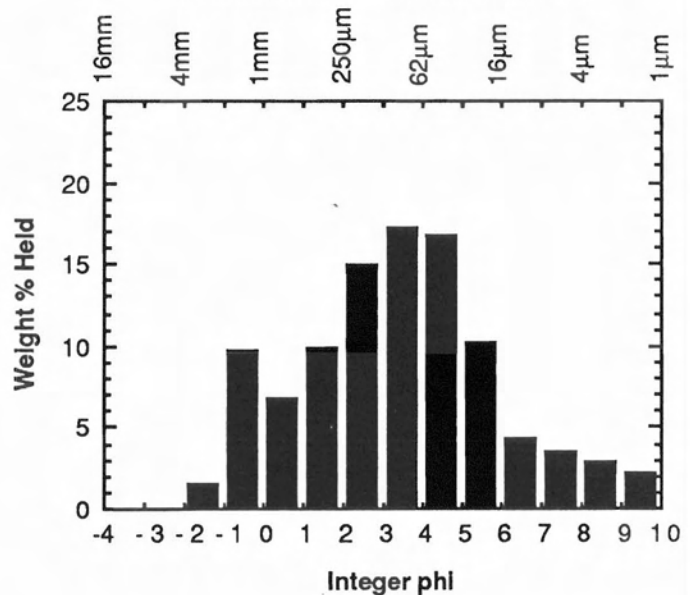
GRAPHIC AND MOMENT MEASURES

Mean:	3.26
Median:	3.46
Mode:	3.50
Sorting:	2.57
Skewness:	-0.01
Kurtosis:	1.18

MOMENT MEASURE DATA

Wt % held	ϕ size
5	-0.59
16	0.75
25	1.77
50	3.46
75	4.92
84	5.56
95	8.44

SIZE DISTRIBUTION HISTOGRAM



Soil: 24149
 (subsample 24149,15)
 D.S. McKay PI

LOCATION COMMENTS:

Sample collected from the Luna 24 site in the Sea of Crises. The site was 17 km from a large crater 10 km in diameter and 2 km deep, and the hope was to obtain ejecta samples. A core was drilled to a depth of approximately 2 meters. U.S. scientists were given samples totalling 3 grams; these were divided into 6 soil samples and one rock fragment. The Moscow Institute of Geochemistry reports that the Luna 24 soil included more large grains than the Luna 16 soils.

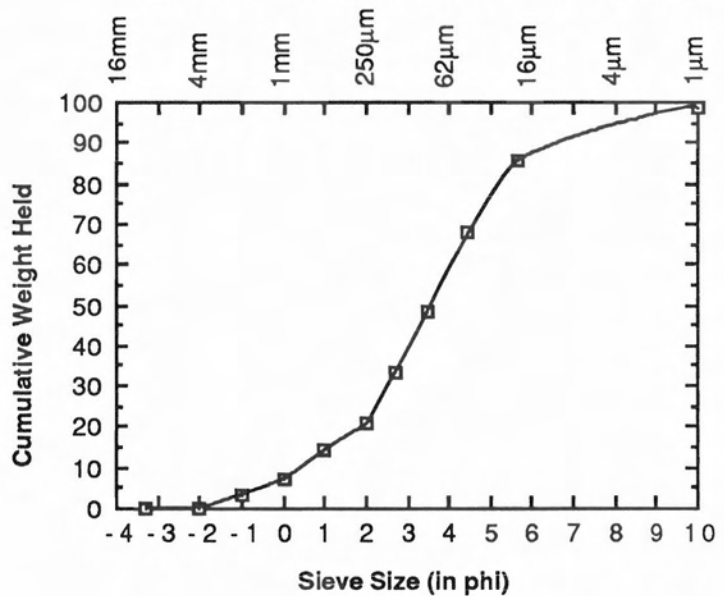
MATURITY INDEX:

$I_g/FeO = 21$ (immature)

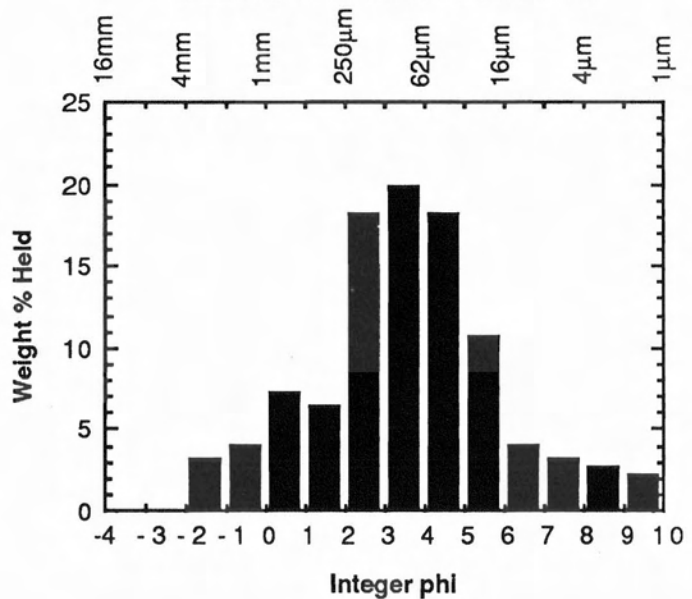
TABULATED SIEVE DATA

Sieve Size (μm)	Wt %
10000.00	0.00
4000.00	0.00
2000.00	3.07
1000.00	3.90
500.00	7.25
250.00	6.42
150.00	12.91
90.00	14.58
45.00	19.67
20.00	17.84
1.00	13.36

CUMULATIVE WEIGHT DISTRIBUTION CURVE



SIZE DISTRIBUTION HISTOGRAM



GRAPHIC AND MOMENT MEASURES

Mean:	3.43
Median:	3.57
Mode:	3.50
Sorting:	2.38
Skewness:	-0.01
Kurtosis:	1.38

MOMENT MEASURE DATA

Wt % held	ϕ size
5	-0.47
16	1.27
25	2.27
50	3.57
75	4.90
84	5.46
95	8.35

Soil: 24174
(subsample 24174,10)
D.S. McKay PI

LOCATION COMMENTS:

Sample collected from the Luna 24 site in the Sea of Crises. The site was 17 km from a large crater 10 km in diameter and 2 km deep, and the hope was to obtain ejecta samples. A core was drilled to a depth of approximately 2 meters. U.S. scientists were given samples totalling 3 grams; these were divided into 6 soil samples and one rock fragment. The Moscow Institute of Geochemistry reports that the Luna 24 soil included more large grains than the Luna 16 soils.

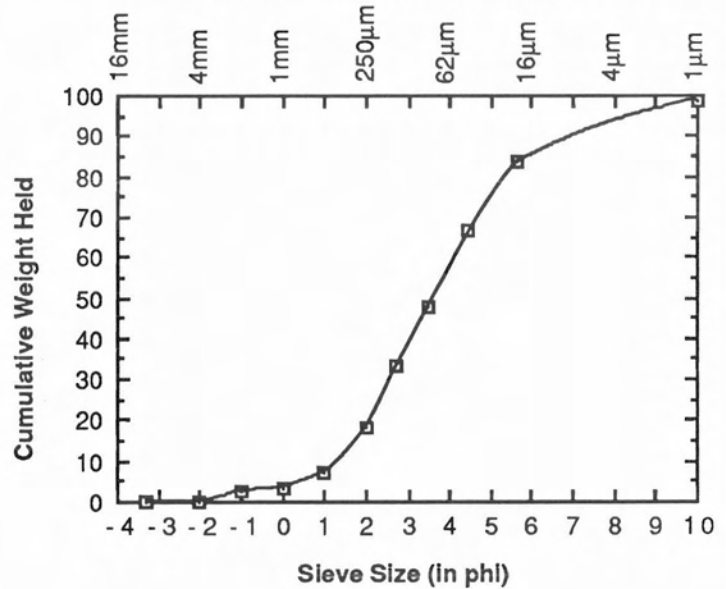
MATURITY INDEX:

$I_g/FeO = 27$ (immature)

TABULATED SIEVE DATA

Sieve Size (μm)	Wt %
10000.00	0.00
4000.00	0.00
2000.00	2.55
1000.00	1.02
500.00	3.83
250.00	10.97
150.00	15.19
90.00	14.02
45.00	19.26
20.00	16.63
1.00	15.53

CUMULATIVE WEIGHT DISTRIBUTION CURVE



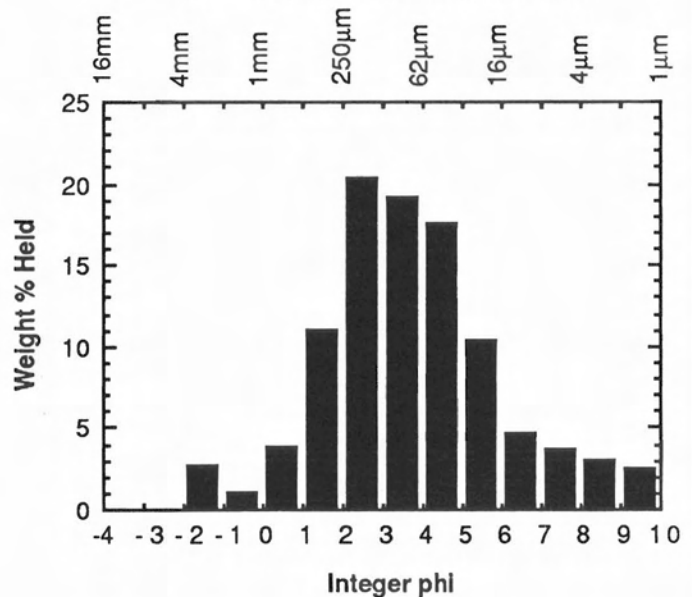
GRAPHIC AND MOMENT MEASURES

Mean:	3.72
Median:	3.60
Mode:	2.50
Sorting:	2.20
Skewness:	0.16
Kurtosis:	1.24

MOMENT MEASURE DATA

Wt % held	ϕ size
5	0.47
16	1.82
25	2.32
50	3.60
75	4.98
84	5.74
95	8.54

SIZE DISTRIBUTION HISTOGRAM



Soil: 24182
 (subsample 24182,15)
 D.S. McKay PI

LOCATION COMMENTS:

Sample collected from the Luna 24 site in the Sea of Crises. The site was 17 km from a large crater 10 km in diameter and 2 km deep, and the hope was to obtain ejecta samples. A core was drilled to a depth of approximately 2 meters. U.S. scientists were given samples totalling 3 grams; these were divided into 6 soil samples and one rock fragment. The Moscow Institute of Geochemistry reports that the Luna 24 soil included more large grains than the Luna 16 soils.

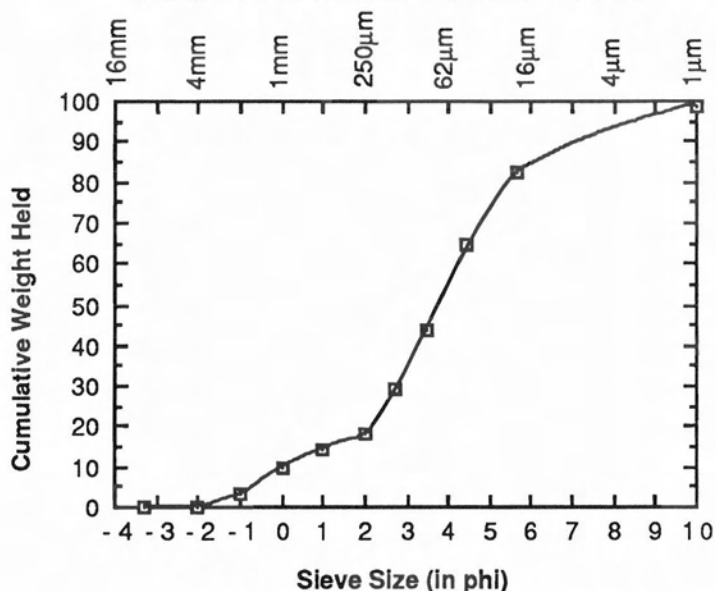
MATURITY INDEX:

$I_s/FeO = 19$ (immature)

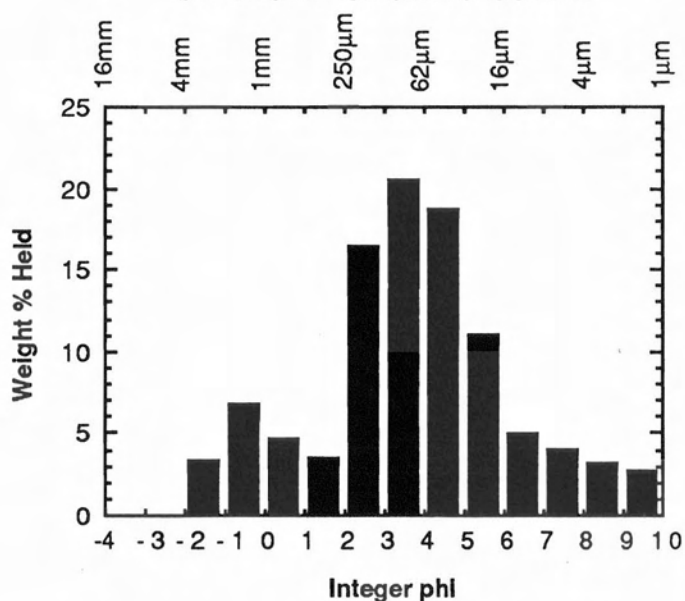
TABULATED SIEVE DATA

Sieve Size (μm)	Wt %
10000.00	0.00
4000.00	0.00
2000.00	3.24
1000.00	6.74
500.00	4.58
250.00	3.50
150.00	11.18
90.00	14.81
45.00	20.57
20.00	17.77
1.00	16.59

CUMULATIVE WEIGHT DISTRIBUTION CURVE



SIZE DISTRIBUTION HISTOGRAM



GRAPHIC AND MOMENT MEASURES

Mean:	3.70
Median:	3.76
Mode:	3.50
Sorting:	2.54
Skewness:	-0.00
Kurtosis:	1.47

MOMENT MEASURE DATA

Wt % held	ϕ size
5	-0.69
16	1.40
25	2.49
50	3.76
75	5.08
84	5.92
95	8.63

Soil: 24210
(subsample 24210,9)
D.S. McKay PI

LOCATION COMMENTS:

Sample collected from the Luna 24 site in the Sea of Crises. The site was 17 km from a large crater 10 km in diameter and 2 km deep, and the hope was to obtain ejecta samples. A core was drilled to a depth of approximately 2 meters. U.S. scientists were given samples totalling 3 grams; these were divided into 6 soil samples and one rock fragment. The Moscow Institute of Geochemistry reports that the Luna 24 soil included more large grains than the Luna 16 soils.

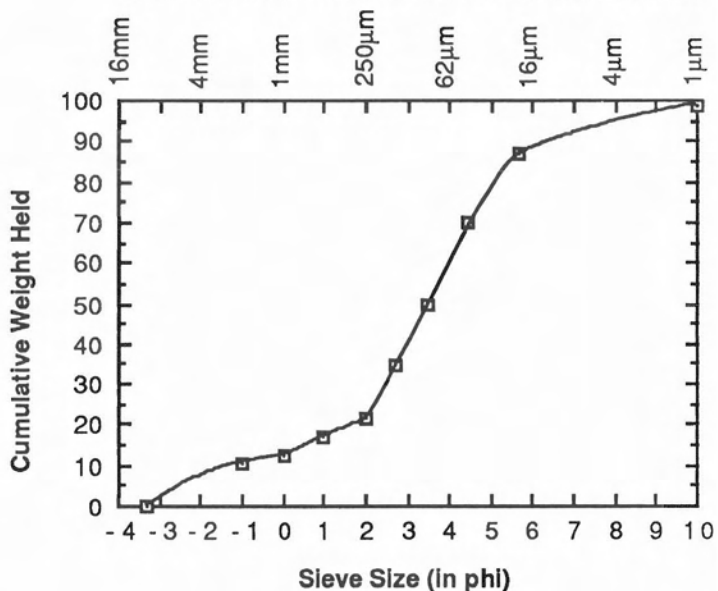
MATURITY INDEX:

$I_g/FeO = 19$ (immature)

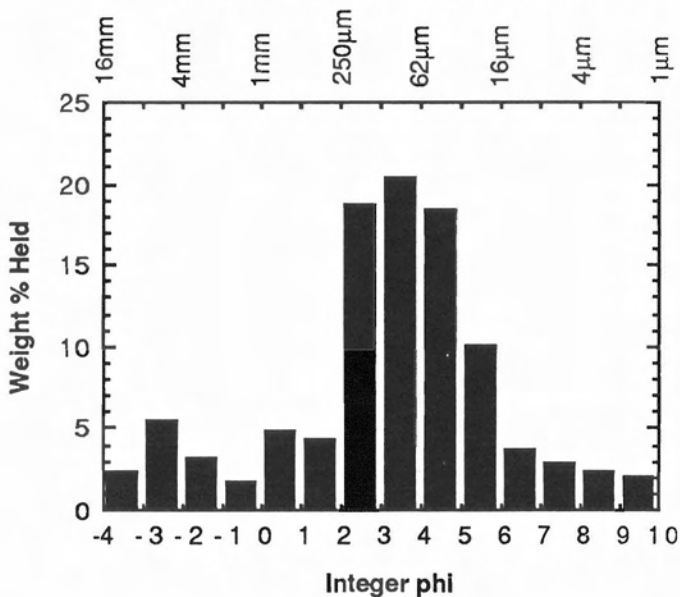
TABULATED SIEVE DATA

Sieve Size (μm)	Wt %
10000.00	0.00
2000.00	10.71
1000.00	1.71
500.00	4.71
250.00	4.29
150.00	13.38
90.00	14.69
45.00	20.40
20.00	17.06
1.00	12.04

CUMULATIVE WEIGHT DISTRIBUTION CURVE



SIZE DISTRIBUTION HISTOGRAM



GRAPHIC AND MOMENT MEASURES

Mean:	3.20
Median:	3.50
Mode:	3.50
Sorting:	2.80
Skewness:	-0.17
Kurtosis:	1.74

MOMENT MEASURE DATA

Wt % held	ϕ size
5	-2.70
16	0.75
25	2.22
50	3.50
75	4.78
84	5.34
95	8.19