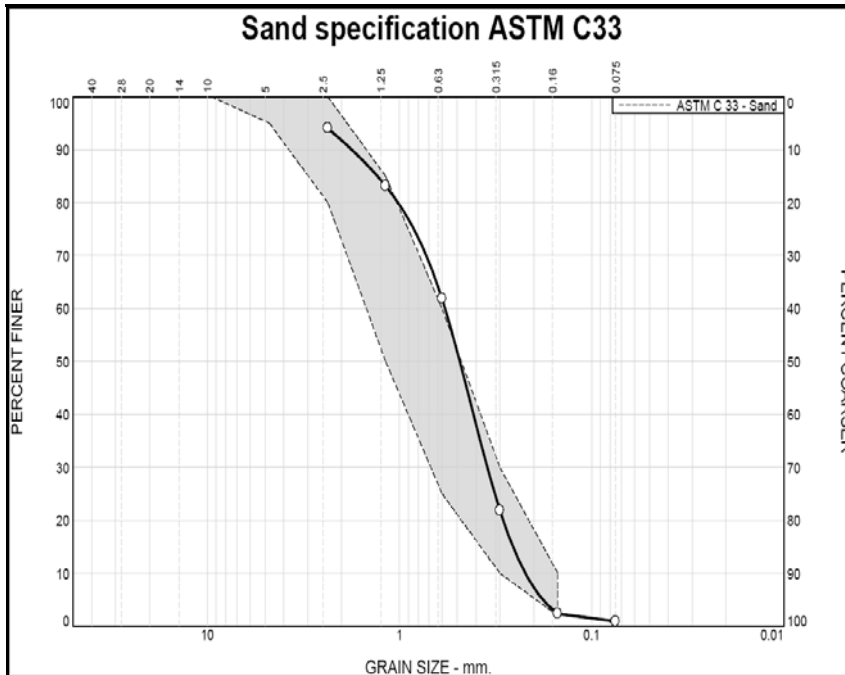


LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. R1350

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 35 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.9	94.1	80 - 100
No. 16	10.9	83.2	50 - 85
No. 30	21.3	61.9	25 - 60
No. 50	40.0	21.8	10 - 30
No. 100	19.5	2.4	2 - 10
No. 200	1.5	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 35 feet

Percent Gravel + 1.5 inch	3.7		
Percent Gravel 1.5 to 0.75 inches	3.5	Total Percent Gravel	15.4
Percent Gravel 0.75 inch to #4 sieve	8.2		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
3 - 15	10.5	2.4	2.7	33.8
15 - 25	10.7	0.7	2.8	30.0
25 - 30	27.5	11.6	3.7	34.7
30 - 35	24.6	5.0	6.4	41.4

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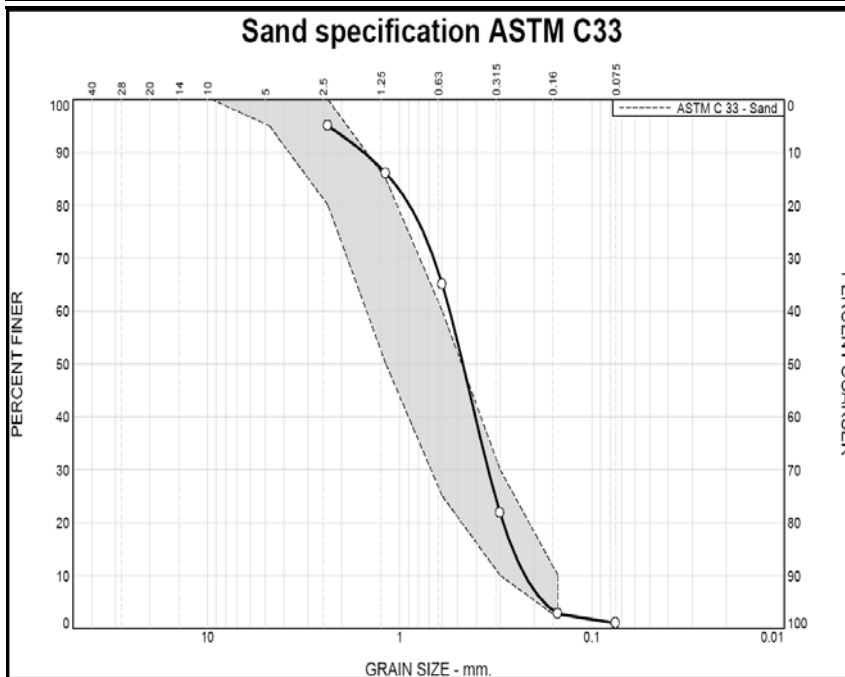
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. R2850

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 25 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.0	95.0	80 - 100
No. 16	9.0	86.0	50 - 85
No. 30	21.0	65.0	25 - 60
No. 50	43.3	21.8	10 - 30
No. 100	19.1	2.7	2 - 10
No. 200	1.8	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 25 feet

Percent Gravel + 1.5 inch	4.1		
Percent Gravel 1.5 to 0.75 inches	5.2	Total Percent Gravel	20.3
Percent Gravel 0.75 inch to #4 sieve	11.0		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
3 - 10	22.1	3.1	6.4	12.6	41.5
10 - 15	22.6	4.2	5.5	12.8	32.6
15 - 20	15.8	1.0	4.7	10.0	29.8
20 - 25	19.9	8.3	3.7	7.9	29.0

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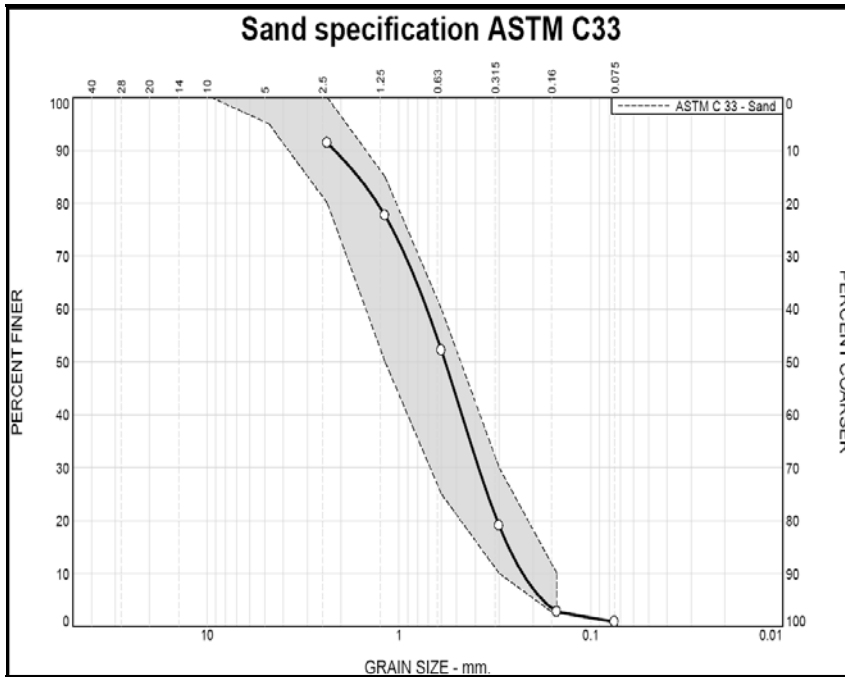
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. RR1150

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 to 38 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.6	91.4	80 - 100
No. 16	13.7	77.6	50 - 85
No. 30	25.5	52.2	25 - 60
No. 50	33.2	19.0	10 - 30
No. 100	16.3	2.7	2 - 10
No. 200	1.9	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2 to 38 feet

Percent Gravel + 1.5 inch	2.6		
Percent Gravel 1.5 to 0.75 inches	4.9		
Percent Gravel 0.75 inch to #4 sieve	18.3		
Total Percent Gravel		25.9	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
2 - 15	9.6	3.0	1.5	5.1	38.3
15 - 20	12.2	0.0	2.5	9.7	31.6
20 - 25	33.9	8.3	9.1	16.5	39.5
25 - 30	42.3	0.0	7.4	34.9	34.1
30 - 38	45.4	1.7	7.9	35.9	48.3

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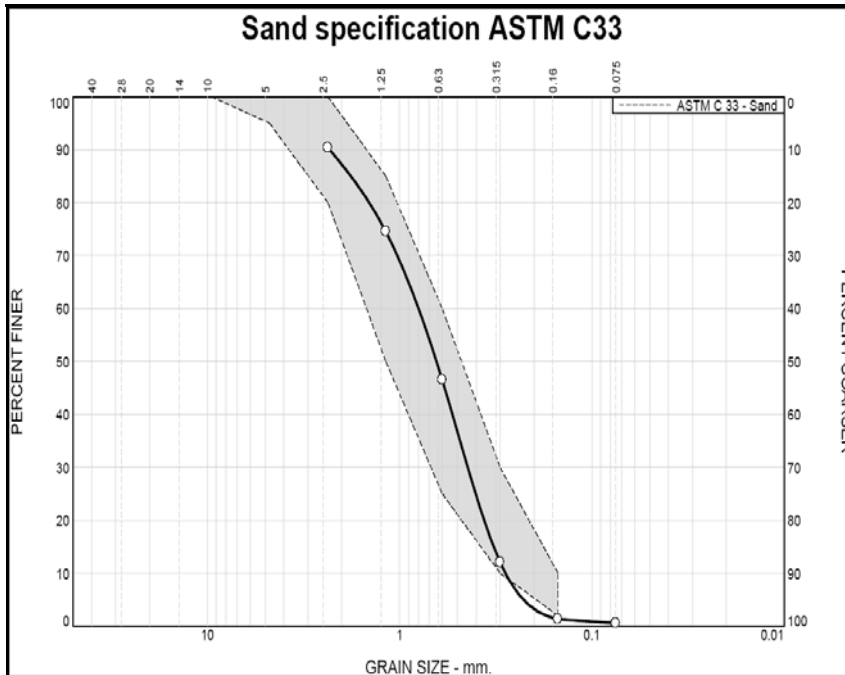
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. RR1350

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.6	90.4	80 - 100
No. 16	15.9	74.5	50 - 85
No. 30	28.0	46.5	25 - 60
No. 50	34.5	12.0	10 - 30
No. 100	10.7	1.3	2 - 10
No. 200	0.8	0.5	
Pan	0.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 45 feet

Percent Gravel + 1.5 inch	4.6		
Percent Gravel 1.5 to 0.75 inches	5.8		
Percent Gravel 0.75 inch to #4 sieve	20.9		
Total Percent Gravel		31.3	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
3 - 10	18.4	1.9	5.1	43.5
10 - 15	27.3	6.6	6.7	36.3
15 - 20	24.0	7.3	5.4	28.6
20 - 25	34.8	12.9	4.6	25.7
25 - 30	41.4	3.6	10.4	38.3
30 - 35	42.8	3.2	6.5	30.7
35 - 40	40.9	2.2	5.6	26.7
40 - 45	26.1	0.0	2.4	24.6

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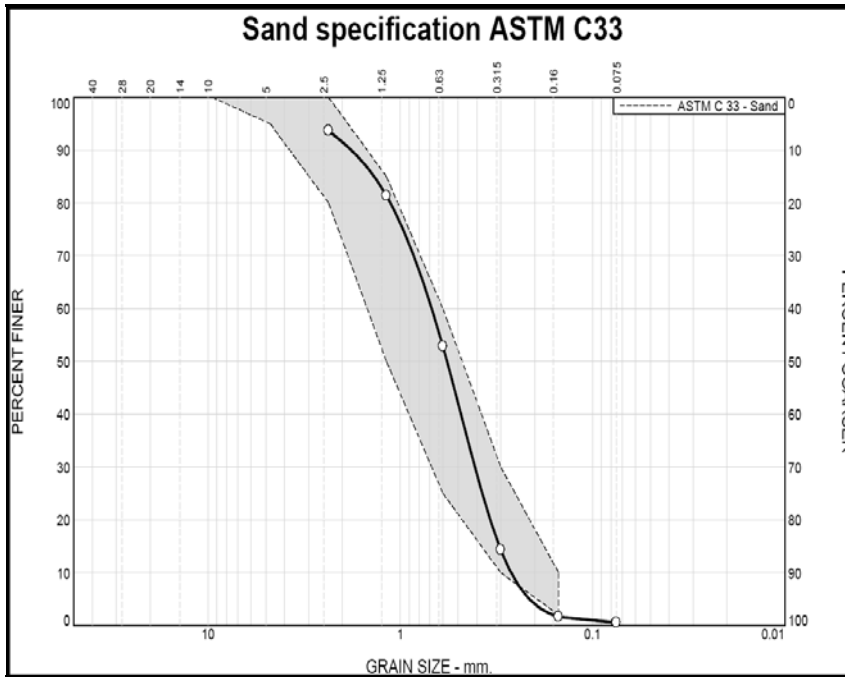
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. RR1450

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 1.5 to 35 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.3	93.7	80 - 100
No. 16	12.3	81.4	50 - 85
No. 30	28.5	52.8	25 - 60
No. 50	38.5	14.3	10 - 30
No. 100	12.7	1.6	2 - 10
No. 200	1.1	0.5	
Pan	0.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1.5 to 35 feet

Percent Gravel + 1.5 inch	2.2		
Percent Gravel 1.5 to 0.75 inches	5.2		
Percent Gravel 0.75 inch to #4 sieve	10.2		
		Total Percent Gravel	17.5

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Individual Intervals	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
1.5 - 10	11.5	0.0	6.2	5.2	35.1
10 - 15	13.2	0.7	4.4	8.2	30.5
15 - 20	12.1	0.0	4.7	7.4	32.3
20 - 25	24.2	8.3	5.5	10.4	32.7
25 - 30	23.8	0.7	4.0	19.0	36.8
30 - 35	24.6	4.7	5.8	14.1	30.3

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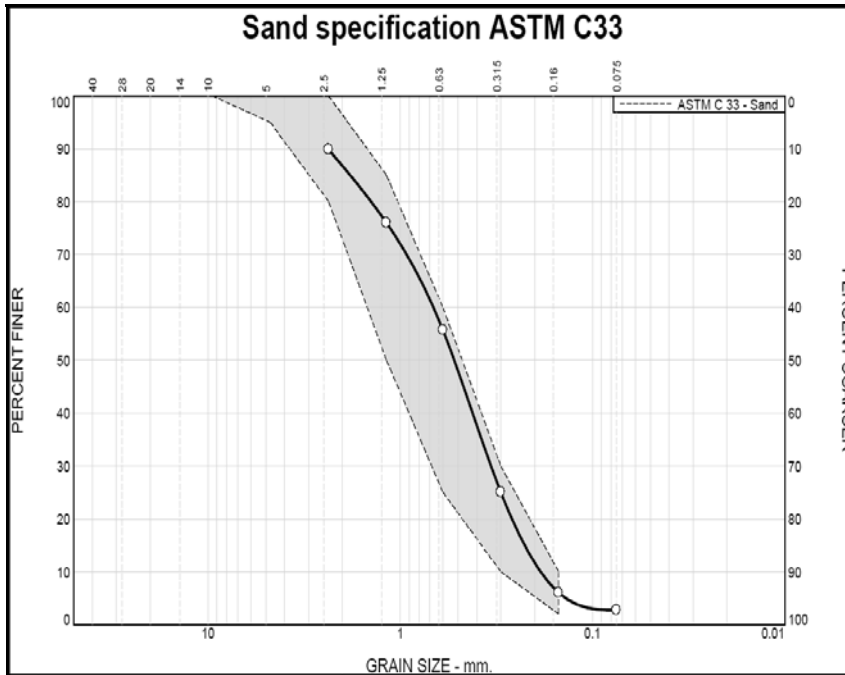
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. RR1850

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 1 to 81 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.2	89.8	80 - 100
No. 16	13.8	76.0	50 - 85
No. 30	20.3	55.7	25 - 60
No. 50	30.7	25.0	10 - 30
No. 100	19.0	6.0	2 - 10
No. 200	3.3	2.7	
Pan	2.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1 to 81 feet

Percent Gravel + 1.5 inch	6.2		
Percent Gravel 1.5 to 0.75 inches	5.6		
Percent Gravel 0.75 inch to #4 sieve	13.4		
Total Percent Gravel		25.3	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
1 - 15	7.4	1.0	2.3	4.2	33.3
15 - 20	16.1	3.2	3.9	9.0	40.3
20 - 30	26.1	10.6	4.6	10.8	39.1
30 - 40	33.2	3.2	11.4	18.6	41.6
40 - 50	44.2	9.3	9.4	25.5	56.8
50 - 60	19.4	5.4	4.0	10.1	46.2
60 - 70	23.2	4.7	2.8	15.7	41.3
70 - 81	34.3	12.4	7.0	14.9	54.8

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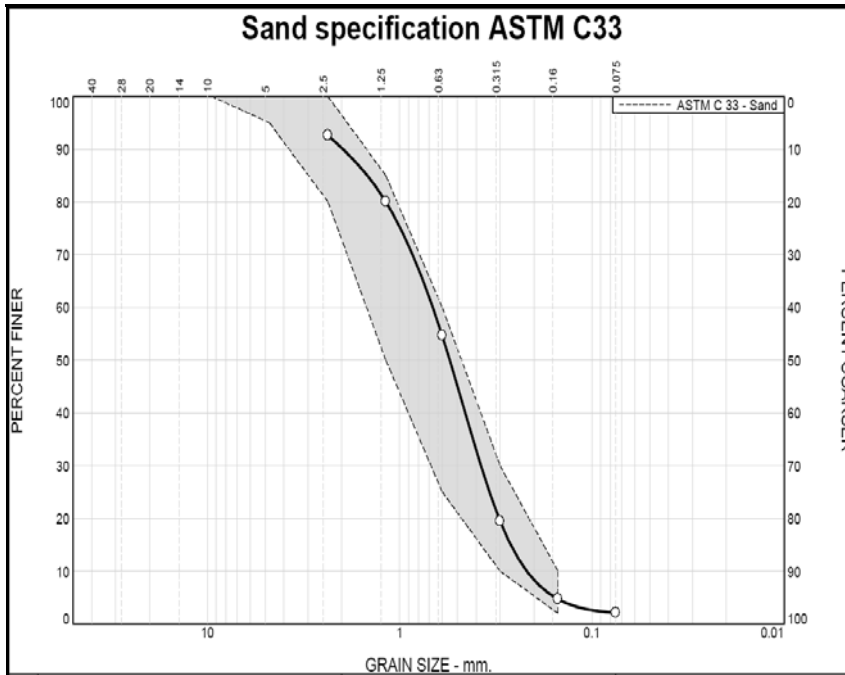
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. RR2250

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 43 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.4	92.6	80 - 100
No. 16	12.6	80.0	50 - 85
No. 30	25.4	54.6	25 - 60
No. 50	35.2	19.5	10 - 30
No. 100	14.8	4.7	2 - 10
No. 200	2.6	2.1	
Pan	2.1		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7 to 43 feet

Percent Gravel + 1.5 inch	4.2		
Percent Gravel 1.5 to 0.75 inches	4.3		
Percent Gravel 0.75 inch to #4 sieve	12.0		
Total Percent Gravel		20.5	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
7 - 13	13.6	0.0	2.9	10.7	30.2
13 - 20	2.6	0.0	0.1	2.5	31.5
20 - 30	8.5	0.0	1.5	7.0	32.7
30 - 43	42.5	11.6	9.4	21.5	51.6

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