TABLES FOR DETERMINING THE CUBICAL CONTENT OF EARTHWORK, IN THE CONSTRUCTION OF RAILWAYS AND COMMON ROADS

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Tables for determining the cubical content of earthwork, in the construction of railways and common roads by William Kelly

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WILLIAM KELLY

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TABLES

FOR DETERMINING THE

CUBICAL CONTENT OF EARTHWORK,

IN THE

CONSTRUCTION



RAILWAYS AND COMMON ROADS.

WHETHER IS

LEVEL GROUND OR SIDE CUTTING.

BY

WILLIAM KELLY.

DUBLIN:

JAMES M°GLASHAN, 21 D'OLIER STREET; W. S. ORR & Co. 147 STRAND, LONDON:

1847.

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0 3	0.009	14 6	0.537	28 9	1.065	43 0	1.593	57 3	2-120	71 6	2.648	86 0	3-185
6	0.019	9	0.546	29 0	1-074	3	1.602	6	2.130	9	2-657	3	3-194
9	0.028	15 0	0.556	3	1.088	6	1.811	9	2-139	72 0	2-667	6	8 204
10	0.037		0 565	6	1.093	9	1 620	58 0	2.148	3	2-676	. 9	3-213
3	0.046		0 574	9	1.102	44 0	1.630	3	2.157	6	2.685	87 0	3·222 3·231
6	0.056		0 583	30 0	1-111	3	1 639	6 9	2·167 2·178	9	2 694	8	3-241
9	0.065		0 593		1.120	8 9	1.648	59 O	2-176	73 0	2·704 2·713	9	\$ 250
20	0.074		0.602	6	1.130	S-1000	1 687	39 0	2.194	6	2.722	88 0	3.259
. 3	0.083		0.620	9	1.189	45 0	1-676	8	2.204	9	2.731	~ š	3.268
9	0-102	120000000000000000000000000000000000000	0-630	31 0	1.148	6	1 685	9	2-213	74 0	2.741	6	3-278
3 0	0-111	8	0.639	6	1.167	9	1.694	60 0	2.222	· 3	2.750	9	3-287
3	0.120	8	0.648	ě	1.176	46 0	1.704	3	2-231	6	2.759	89 0	3-296
6	0.130	9	0.657	82 O	1-185	3	1713	6	2.241	9	2.768	3	3.306
9	0.139	18 0	0-667	8	1-194	- 6	1.722	9	2-250	75 0	2.778	6	3.315
4 0	0.148	3	0.678	6	1-204	g	1.731	61 0	2.259	3	2.787	9	3.324
3	0.157	6	0.685	9	1-213	47 0	1.741	8	2.268	6	2.796	90 0	3 343
6	0.167	9	0-694	33 0	1-222	8	1.750	8 9	2-278 2-287	76 0	2.805	3 6	3 352
9	0-176	19 0	0.704	8	1 231	9	1.768	62 0	2 296	70 U	2.815 2.824	ě	# 36I
50	0.185	3 6	0.718 0.722	8	1.241	48 0	1.778	02 0	2.306	6	2.833	91 0	3:370
8	0.194		0731	9		8	1.787	ě	2.315	ğ	2.843	3	2-380
9	0-213	2575451546	0.741	34 0	1 259	ő	1.796	9	2.824	77 0	2-852	6	3.389
60	0.222		0.750	6	1 278	9	1 805	63 0	2.333	3	2.861	9	3.398
. 3	0-231	6	0.759	ě	1-237	49 0	1815	3	2.443	8	2.870	92 0	3.407
6	0.241	9	0.768	35 G	1-2516	8	1.824	6	2.352	9	2.880	3	3.417
	0 250	21 0	0.778	3	1-306	6	1.683	9	2.361	78 0	2.889	6	3.426
7 0	0.259		0.787	6	1.315		1.843	64 0	2.370	8	2.898	9	3-435
3	0.268		0.796	9	1.324	50 G	1.852	3	2.380	6	2-907	98 0	3 444
6	0.278	.556	0.805	36 0	1.333	3	1.661	6 9	2-389	9	2.917	3 6	3.454
9	0-287	22 0	0.815	3	1.343	5	1.870		2.398	79 0 3	2.926	9	3.472
8 0	0-296		0.824 0.833	6	1 352	4660 (55)	1.889	65 O	2·407 2·417	6	2-935	94 0	3.481
8	0.306 0.315	6 9	0.843	9	1.861	51 0 8	1 808	ě	2.426	9	2.954	3	3.491
6	0.324	100100000000000000000000000000000000000	0.852	37 O	1.370		1-907	9	2.435	80 O	2-963	6	3.500
90	0.838		0.861	6	1.389	9	1-917	66 0	2.444	3	2.972	9	3.509
3	0.343		0.870	9	1.398	52 0	1-926	3	2454	6	2-981	95 0	3-519
6	0.352	9	0.880	38 0	1.407	- 8	1 935	6	2.463	9	2-991	3	3.528
9	0.861	24 0	0.889	8	1-417	6	1-944	9	2.472	81 0	3-000	6	3.537
10 0	0.370		0.898	6	1 426	9	1-954	67 0	2481	8	3 009	9	8.546
8	0.380		0-907	9	1.435	53 0	1.963	3	2.491	6 9	3.019	96 0	3.558
6	0.389	9	0.917	89 0	I 444		1.972	6	2-500	0000000	3-028	8	3.585 3.574
9	0.398	25 0	0 926	3	1.454	9	1.991	9	2.509	82 0	3.037	9	3.583
11 0	0.407		0.985	6	1.463	1555,44210	2.000	68 0 3	2.519	8	3-056	97 0	3-598
8	0.417		0.944	9	1.472		2 000	6	2.537	ě	3.065	3	1 602
6	0.435	9		40 0	1.481		2.019	ğ	2.546	83 0	3-074	6	3-611
	10.00.00	26 0	0.963	3	1.491	ğ	2 028	69 0	2.556	3	3.083	9	3-620
12 0	0.444		0.972 0.981	6	1.500	55 0	2-037	3	2.565	6	3.093	98 0	3-630
8	0.454	6 9	0.991	10000	757376		2 046	6	2-574	9	3.102	3	3 639
9	0.472	750		41 0	1.519	6	2.056	ğ	2.583		3.111	6	3-648
d1000255	100000		1.000	8	1.528	9	2.065	70 0	2.593	3	3-120	9	3-657
18 0	0.481		1.009	ŝ	1.546	56 O	2-074	10 0	2.602	6	3-130	99 0	3-667
8	0.500	9	1-028	2000 P	1000	3	2 083	ő	2611	9	3-139	3	3.676
ě	0.509	600 821	- 36.5	42 0	1.556	- 6	2.093	9	2.620		3-148 3-157	6	3-685
	100	28 0	1 087	8	1.565	0	9-100		011200		101	9	3-694

Heighte Fa. in	BASE I Foot	BARE 10 Feet	BARE 30 Fort	SnoFks	Hoights Pt. In.	Bask 1 Feet	Base 30 Post	30 Feet	Score
0 3	0.010	0-185	0.278	0.003	18 0	0.481	9-650	14:444	0.120
6	0.018	0.870	0.556	0.005	8	0.490	9.815	14-722	0.121
9	0.028	0.556	0.833	0.007	6	0.500	10.000	15-000	0.125
10	0.037	0.741		0.000	9	0.509	10.185	15-278	0.128
3	0.046	0.926	1.111	0.009	14 0	0.519	10-370	15-556	0.130
6	0.056	1-111	1.667	0.014	3	0.528	10-556	15.833	0.132
ğ	0.065	1-296	1.944	0.017	6	0.037	10-741	16-111	0-134
-	000	1 400		0.017	ÿ	0.546	10.926	16-389	0.137
2 0	0.074	1.481	2.222	0.019	š		10 510	10 000	V 10.
3	0.083	1.667	2.500	Ø·021	15 0	0.556	11-111	16.667	0-139
6	0.093	1.852	2.778	0.023	8	0.565	11-296	16-944	0-142
9	0.102	2.037	3.056	2.026	6	0.574	11-481	17-222	0-144
8 0	0.111	2-222	3,333	0.028	9	0.583	11-667	17:500	0.146
3	0-120	2-407	3.611	0.030	16 0	0.593	11-852	14.440	
6		2.598	3.889	0.032	20 0	0.602		17.778	0-148
9	0.130				6	0.602	12:037	18-056	0.151
	0-159	2.778	4.167	0.035	9	0.620	12-222	18-333	0.15
4 0	0-148	2-963	4.444	0.037	8	0.020	12:407	18-611	0.155
3	0-157	8-148	4.722	0.040	17 0	0.630	12-593	18-889	0-157
6	0.167	3-833	5.000	0.042	3	0.639	12.778	19-167	0.160
9	0-176	8.519	5.278	0.044	- 6	0.648	12.963	19-444	0-162
		L			9	0.657	13-148	19-722	0.165
50	0.182	3.704	5.556	0.046	1				
3	0.194	3.689	5.833	0.049	18 0	0.667	13.333	20.000	0.167
6	0-204	4.074	6.111	0.051	8	0.076	18-519	20.278	0.169
8	0.218	4.259	6.389	0.054	6	0.685	13.704	20.558	0-171
. 0	0.222	4-444	6.667	0.056	9	0.694	13.889	20.833	0-174
3	0 231	4.630	6-944	0 058	19 6	0.704	14-074	21-111	0.176
6	0.241	4.815	7.222	0.060	s	0.718	14-259	21-389	0.179
9	0.250	5.000	7.500	0.063	6	0 722	14-444	21.667	0.181
			· Constant	Total San	Ď	0.731	14-680	21-044	0-188
70	0.259	5.185	7.778	0.065	- 3350E		CONTRACTOR OF		30,00
8	0.268	5.370	8.056	0.067	20 0	0.741	14-815	22.222	0.189
6	0.278	5.556	8-333	0.069	3	0.750	15.000	22.500	0.188
9	0.287	5.741	8.611	0.372	6	0.759	16-185	22.778	0.190
8 0	0.296	5.926	8.889	0.074	В	0.768	15-370	23.056	0.192
8	0.305	6 111	9.167	0.077	21 0	0.778	15-556	28-333	0.194
6	0.815	6.296	9-444	0.079	8	0.787	15-741	23-611	0.197
9	0.324	6.481	9.722	0.081	6	0.796	15-926	23.889	0.199
- S			74.44.00.45		9	0.808	16-111	24.167	0-202
9 0	0.338	8-867	10.000	0.083					
3	0.342	6.852	10.278	0.086	22 0	0.815	16-296	24-444	0.204
6	0.352	7.037	10.556	0.088	3	0 824	16.481	24.722	0.306
9	0.361	7.222	10.833	0.091	6	0.633	16 667	25.000	0.308
10 0	0.270	7.407	11-111	0.093	9	0.842	16.852	25-278	0 211
8	0-379	7.593	11-389	0.095	23 0	0.852	17:037	25 556	0-213
6	0.389	7.778	11 667	0.097	20 0	0.861	17-222	25.833	0.218
9	0.338	7.968	11.944	0.100	6	0.870	17-407	26-111	0.218
11 0	0.407	8-148	12-222	9.192	Š	0.879	17-593	26.389	0.220
3	0.418	8.333	12.500	0-184		0.00	.,	20.00] 220
8	0.426	8.519	12.778	0.106	24 0	0.889	17-778	26-667	0.222
9	0.435	8.704	13.056	0.189	3	0.898	17-968	26-944	0.225
12 0	0.444	30772	D1000000000000000000000000000000000000	Carried State	6	0 907	18-148	27-222	0.227
12 0	0.458	8.889	13-333	0.111	9	0 916	18-888	27 500	0-229
ě	0.468	9.074	13-611	0.114		0.000	10.510	07.77	
9	0.472	70.000	13.889	0.116	25 0	0-985	18-519	27.778	0-261
	10.41.9	9-444	14-167	0.118	9	A.A.O.	18.704	28-056	0-284

Hely Pt.	la.	BARR 1 Foot	Bass 20 Feet	Bass 30 Fret	Stores	Heig Ft.	In.	Bass Foot	Baus 20 Feet	BASE 80 Feet	SLOPE
25	-	0.944	18-889	28.333	0.236	38	0	1-407	28-148	42.222	0.352
	9	0.953	19.074	28-611	0.239	.00	3	1.416	28 333	42.500	0.354
		0.00					6	1.426	28.519	42.778	0.356
26	0	0.963	19.259	28.889	0.241	•	100	1.485	28.704	43.056	0.359
707	3	0.972	19.444	29-167	10-243		9	1.435	20.104	40 000	0.000
	6	0.981	19-630	29-444	0.245	39	0	1.444	28-889	43.333	0.361
	9	0.990	19-815	29.722	.0.248	0.9	3	1.453	29.074	43.611	0.364
	9	0.990	10 010	20 122	The same of				29-259	43.889	0.366
27	0	1.000	20-000	30.000	0.250		6	1 463		44-167	0.368
~ .	3	1.009	20.185	30-278	0.253	- 3	9	1.472	29.444	44:101	0.900
	6	1.019	20.370	30.556	0.255	70	0	1-481	29-630	44.444	0.370
	9	C-1500530	20.556	30.833	0.257	40	0.00		29-815	44.722	0-373
	9	1.028	20 350	00 000	0.201		8	1-490		45.000	0.37
28	0	1.037	20:741	31-111	0.259		6	1.500	30.000		14 (20) (20)
20	3	1.046	20.926	31.389	0.262	- 1	9	1.509	30.185	45.278	0.378
			21.111	31.667	0.264	10000		000222	30:370	45.556	0.380
	6	1.056	455 = 000 000 000 000 000 000 000 000 000	31-944	0.267	41	0	1.519			0-389
	9	1.065	21.296	21.644	0 201		3	1.528	30.556	45.833	1000
29	0	1.074	21:481	32-222	0.269		0	1.537	30.741	46:111	0.384
29	0		21.667	32-500	0-271		9	1.546	30.926	46.389	0.387
	3	1.083	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		0.273					1.0 000	
	6	1.093	21.852	32.778		42	0	1.556	31-111	46-667	0.388
	9	1.102	22.037	38 056	0.276	20395	3	1.565	31.296	46.944	0.899
	_		00.000	nn 000	0-278		6	1.574	31.481	47-222	0.394
30		1.111	22.222	88.333			9	1-583	31-667	47-500	0.396
	3	1.150	22.407	33-611	10.280						
	6	1.130	22.598	83-899	0.282	43	0	1.593	31.852	47.778	0.398
	9	1-139	22.778	84-167	0.285	100	3	1.602	32.037	48.056	0.40
				22000			6	1.611	32-222	48-333	0.40
31	0	1-148	22.963	34.444	0.287		9	1.620	32:407	48-611	0-405
	3	1.157	23-148	34.722	0.290		ь	L - LF ZAT	02 101		1
	6	1-167	23.333	\$5,000	0.292	44	0	1.630	32.593	48-889	0-407
	9	1.176	23.519	35.278	0.294		3	1.639	32.778	49-167	0.410
				- Lucy 53m	I description of		6	1.648	32-963	49-444	0.415
32	0	1.185	23.704	35.556	0.296	ſ			33-148	49.722	0.413
	3	1.194	23.889	35-888	0.299		9	1.657	99.140	45 144	0 410
	6	1-204	24-074	86-111	0.301	45	0	1-667	83-333	50-000	0.417
	9	1-213	24.259	36-389	0.304	100			88-519	50-278	0.419
		1 210		100 000	1		8	1.676	33-704	50-556	0.421
33	0	1.223	24.444	36.667	0.306		6	1.685		50.833	0.424
•••	3	1-231	24.630	36.944	0-308	ı	9	1.694	33-889	190.699	0:424
	6	1.241	24.815	37.222	0.310				34-074	51-111	0.426
	9	1.250	25.000	37-500	0.313	46		1-704		51 389	0.429
	9	1.500	23.000	01.000	0.010		8	1.713	34.259		
34	0	1.259	25-185	87-778	0.315		в	1.722	34-444	51.667	0.431
04			25.370	38 056	0-317		9	1.781	34.630	51.944	0.433
	3	1.268		88-883	0.319	979,35	il.				
	6	1-278	25.556	A- 40		47	0	1.741	34.615	52.222	0.435
	9	1.287	25.741	38-611	0.322		3	1.750	85.000	52.500	0.438
	120		01.000	38-889	0.324		6	1.759	35-185	52.778	0.440
35	0	1.296	25.926		0.327		9	1.768	35-370	53.056	0.442
	3	1.305	26.111	39-167				1.37			1
	6	1.315	26-296	39 444	0.329	48	0	1.778	35.556	58.333	0.444
	9	1.324	26.481	39.722	0.331	X 25 - 15 - 1	3	1.787	35.741	53.611	0.447
			00.00	10.000	0.000		6	1.796	35-926	53.889	0.449
86	0	1.333	26.667	40.000	0.333	l i	9	1.805	36-111	54-167	0.452
	3	1-342	26.852	40.278	0.336	1	3	1.609	00.111	101	V 402
	6	1.352	27:037	40.556	0.338	10		1.016	36-296	54-444	0.454
	9	1.361	27.222	40.833	0.341	49		1.815			
			CALLEY CO.				3	1.824	36.481	54.722	0.450
37	0	1:370	27-407	41-111	0.343		6	1.833	36.667	55.000	0.458
-0	3	1.379	27:593	41.389	0.345		9	1.842	36:852	55.278	0.461
	6	1.389	27.778	41-667	0.347	I :		10000	100000000000000000000000000000000000000		
		1.398	27-963	41-944	0.350	50		1.852	37.037	55.556	0.463

Height Fr. In	1 Foot	Bask 20 Peet	Bies 30 Feet	Stores	Ft. In.	BASE I Foot	Bass 90 Feet	BASE 30 Feet	SLOPE
0 3	0.010	0-185	0.278	0.605	18 0	0.481	9.630	14-444	0.24
6	0.019	0.370	0.556	0.009	3	0.490	9.815	14.722	0.24
9	0.028	0.556	0.833	0.014	. 6	0.500	10.000		
					9			15-000	0.25
1 0	0.037	0.741	1.111	0.018	(A)	0.209	10-185	15.278	0.25
8	0.048	0.926	1.369	0.028	14 0	0.519	10.370	15.556	0.25
6	0.056	11-111	1.667	0.028	8	0.528	10.556		
9	0.065	1.296	2.944	0.032	8			15.833	0.26
						0.537	10.741	118-111	0.26
20	0.074	1.481	2.222	0.087	9	0.546	10.926	16.389	0.27
3	0.083	1.667	2.500	0.041	15 0	0.558	11:311	16-667	0.27
6	0.093	1.852	2.778	0.046	3	0.565	11.296		
9	0.102	2.037	3.056	0.051				16-944	0.28
48					6	0.574	11.481	17-222	0.28
8 0	0.111	2.222	3.338	0.056	9	0.583	11.667	17.500	0.29
3	0-120	2.407	8.611	0.060	16 0	0-593	14.010	17-778	0.00
6	0.130	2.593	3.889	0.065			11.852	200000000000000000000000000000000000000	0.29
9	0.139	2.778	4-167	0.069	8	0.602	12:037	18.036	0.30
CYUNE					6	0.611	12-222	18.333	0.30
4 0	0.148	2.963	4.444	0.074	9	0.620	12:407	18.611	0.31
8	0.157	3-148	4-722	0.076	17 0			10.000	
6	0.167	8.833	5.000	0.083		0.630	12.593	18-889	0.31
9	0.176	3.519	5.278	0.088	8	0.639	12.778	19-167	0.31
				0 000	6	0.648	12.963	19-444	0.35
5 C	0.185	3.704	5.556	0.098	9	0.657	13-148	19.722	0.32
3	0-194	3.889	5-833	0.097					
6	0.204	4.074	6.111	0-102	18 0	0.667	13-333	20.000	0.33
9	0.213	4.259	6.389	0.108	3	0.676	13-519	20.278	0.33
	0.210	4 200	0.969	6.100	6	0.685	13.704	20:558	0.84
6 0	0.222	4-444	6.667	0-111	9	0.694	13-889	20.833	0.34
3	0.231	4.630	6-944	0-115	222620				
6	0.241	4-815	7.222	0-120	19 0	0.704	14.074	21.111	0.35
9	0.250	5-000	7.500	0.125	8	0.718	14-259	21.389	0.85
	0 200	D 000	7 300	0.120	6	0.722	14.444	21.667	0.36
7 0	0.259	5-185	7-778	0.130	9	0.731	14-630	21-944	0.36
3	0.268	5.370	8.056	0.134	1227/11/02/1				
6	0.278	3.556	8.333	0.139	20 0	0.741	14.815	22.222	0.37
9	0.287	5.741	8'611		3	0.750	15.000	22.300	0.37
	0 201	2.141	0.011	0-148	. 6	0.759	15-185	22.778	0.38
8 0	0.296	5.926	8-889	0.148	D	0.768	15.370	23.056	0.38
8	0-305	6-111	9.167	0-152					
6	0.815	6-296	9.444	0-157	21 0	0.778	15.556	23.333	0.38
9			9.722		8	0.787	15.741	23-611	0.39
	0.324	6.481	9 122	0.162	6	0-796	15-926	23.889	0.39
9 0	0.833	6.667	10.000	0-167	9	0.805	16-111	24-167	0.40
3	0.342	6.852	10-278	0.171	1				0 10
6	0.352	7.037	10-556	0.178	22 0	0.815	16.296	24-444	0.40
9	0.361	7.222		0.180	8	0.824	16-481	24.722	0.41
8	0.901	1.222	10-635	0.190	6	0.833	16-667	25.000	0.41
0 0	0.370	7.407	11-111	0.185	9	0.842	16-852	25-278	0.42
3	0.379	7.593	11-389	0.189	2750		.0002		0.42
6	0.389	7.778	11-667	0.194	23 0	0.852	17-037	25.556	0.42
9	0.398	7.963	11.944	0.199	3	0.861	17-222	25.833	0.43
	0 000	1 000	11.911	0 100	6	0.870	17-407	26.111	0.43
1 0	0.407	8-148	12-222	0.204	9	0.879	17-593	26-389	0.43
3	0.416	8.333	12.500	0.208	1 "	0.018	11.099	20.000	0.49
6	0.426	8.519	12.778	0.213	24 0	0.889	17:778	26:667	0.44
9	0.435	8.704	13.056	0.217	3	0.898	17.963	26.944	0.44
					ě	0.907	18-148	27.222	
12 0	0.444	8.889	13.333	0.222					0.45
3	0.453	9.074	13-611	0.226	9	0.916	18-333	27.500	0.45
6	0.463	9.259	18-889	0.231	25 0	0.926	18-519	27.778	0-46
9	0.472	9-444	14-167	0.236	3	0.935	18-704	28.056.	0.46

Heigh Ft. 1	n.	1 Foot	Bast 20 Feet	BARE 30 Feet	SLOPES	Heights Ft. In.	BASE 1 Foot	BASE 20 Feet	BASE 30 Feet	SLOPE
25 6		0.944	18-889	28-333	0.472	38 0	1-407	28-148	42:222	0.70
. 1	9	0.953	19.074	28.611	0.476	3	1.416	28.333	42.500	0.70
						6	1.426	28.519	42.778	0.71
26 (0.963	19-259	28.889	0.481	9	1.435	28.704	43.056	
	3	0.972	19.444	29.167	0.486		1.400	20.104	49.030	0.71
	6	0.981	19 630	29.444	0.491	39 0	1.444	28.889	43.333	0.72
	9	0.990	19.815	29.722	0.495	3	1.453	29.074	43-611	8.72
27 (œ.	1.000	20.000	30.000	0.500	6	1.463	29.259	43-889	0.73
	3	1.000			0.500	9	1.472	29.444	44-167	0.73
	6		20-185	30.278	0.504					0 10
	9	1.019	20.370	30.556	0.509	40 0	1.481	29.630	44-444	0.74
	9	1.028	20.556	30.833	0.514	3	1.490	29.815	44.722	0.74
28 (0	1-037	20-741	31-111	0.519	6	1.500	30.000	45.000	0.75
	3	1.046	20.926	31.389	0.523	9	1.509	30-185	45.278	0.75
	6	1.056	21-111	31-667	0.528	74.74				100
	9	1.065	21-296	31.944	0.532	41 0	1.519	30.374	45.556	2.75
		1 000	21 200	01.044	0.002	3	1.528	30.556	45.833	0.76
29 (8	1-074	21.481	32-222	0.537	6	1.537	30.741	46-111	0.76
	3	1.083	21.667	32.500	0.541	9	1.546	30.926	46.389	0.77
	6	1.093	21.852	32.778	0.546					
-	5	1.102	22.037	33.056	0.551	42 0	1.556	31-111	46.667	0.77
					0.001	3	1.565	31.296	46-914	0.78
30 (n	1-111	22-222	33.333	0.556	6	1.574	31-481	47.222	0.78
	3	1-120	22:407	38-611	0.560	9	1.283	31.667	47.500	0.79
	6	1:130	22.593	33.889	0.565	43 0	1-593	31-852	47.778	0.70
9	9	1-139	22.778	34-167	0.569	3	1.602	32.037	48.056	0.79
		Sections	2000	E175097561	V. 150 V. AV	100	Contract of	32.222		0.80
	0	1.148	22.963	34.444	0.574	6	1.611	- Exponential	48.333	0.80
	3	1-157	23-148	34.722	0.578	9	1-620	32-407	48-611	0.81
	6	1.167	23.333	35.000	0.583	44 0	1.630	32.593	48-889	0.81
1	9	1.176	23.519	35.278	0.588	3	1.639	32.778	49-167	0.81
00			00.704	90.000	0.700	6	1.648	32.963	49-444	0.82
32		1-185	23.704	35.556	0.593	9	1.657	33-148	49.722	0.82
	3	1.194	23.889	35.833	0.597		. 001	90 140	10 122	0.02
	6	1.204	24.074	36-111	0.602	45 0	1 667	33-333	50.000	0.83
- 1	9	1-213	24.259	36.389	0.606	3	1.676	33.519	50-278	0.83
33 (n	1.222	24-444	36-667	0.611	6	1.685	33.704	50.556	0.84
	3	1.231	24.630	36-944	0.615	9	1.694	33-889	50-833	0.84
	6	1-241	24.815	37-222	0.620	A			100	0.01
	9	1.250	25.000	37.500		46 0	1.704	34.074	51-111	0-85
		1 230	25.000	91.900	0.625	3	1.713	34-259	51.389	0.85
34 (0	1.259	25-185	37.778	0.630	6	1.722	34-444	51.667	0.86
	3	1.268	25.370	38-056	0.634	9	1.731	34.630	51.944	0.86
	6	1.278	25.556	38-333	0.639					1
	9	1.287	25.741	38-611	0.643	47 0	1.741	34.815	52-222	0.87
	9.			000	0.040	3	1.750	35.000	52.500	0.87
35	0	1.296	25.926	38.889	0.648	6	1.759	35.185	52.778	0.88
	3	1.305	26-111	39-167	0.652	9	1.768	35.370	53.056	0.88
	6	1.315	26.296	39.444	0.657	40.0		40.000	20.000	
	9	1.324	26.481	39.722	0.662	48 0	1.778	35.556	53.333	0.88
Sign of		2144	ALCOHOLD VALUE	100000	100000	3	1.787	35.741	53-611	0.89
36		1.333	26-667	40-000	0.667	6	1.796	35-926	53.889	0.89
	3	1.342	26.852	40.278	0.671	9	1.805	36-111	54-167	0.90
	6	1.352	27.037	40.556	0.676			40 020	22.20	5.01
1	9	1.361	27.222	40.833	0.680	49 0	1.815	36.296	54.444	0.90
-	^		AM			3	1.824	36.481	54.722	0.91
37		1.370	27.407	41-111	0.685	6	1.833	36-667	55.000	0.91
	3	1.379	27.593	41.389	0.689	9	1.842	36.852	55.278	0.92
	6	1.389	27.778	41.667	0.694	555				100
	9	1.398	27.963	41-944	0.699	50 0	1.852	37-037	55-556	0.92

Heigh Ft. In	BASE 1 Foot	Bass 20 Feet	Bass 30 Feet	Stopes	Hei Ft,	lis.	BARR I Foot	BASE 20 Feet	BASS 30 Feet	SLOPES
0 3	0.010	0.185	0.278	0.007	13	0	0.481	9-630	14-444	0.361
6	0.019	0.370	0.556	0.014	2.00	3	0.490	9.815	14-722	0.368
9	0.028	0.556	0.833	0.021	ı	6	0.500	10.000	15,000	0.375
	6.5.75				ı	9	0-500	10-185	15.278	0.382
10	0.037	0.741	1.111	0.028	10150	•				
3	0.046	0.926	1.389	0.035	14	0	0.519	10.370	15.556	0.389
6	0.056	1.111	1.667	0.042		3	0.528	10.556	15.833	0.396
9	0.065	1.296	1.944	0.049	ı	6	0.537	10.741	16.111	0.403
100		1.401	0.000	0.050		9	0.546	10.926	16-389	0.410
20	0.074	1.481	2.222	0.056	B and		eventure of the	0.0000000000000000000000000000000000000	erandika:	20022
3	0.083	1.667	2.500		15		0.556	111-111	16.667	0-417
6	0.093	1.852	2.778	0.069		3	0.565	11.296	16-944	0.424
9	0.102	2.037	3.056	0.076	1	6	0.574	11.481	17-222	0.431
	0-111	2-222	8.333	0.083	ľ	9	0.583	11.667	17.500	0.438
8 0	0.120	2.407	3.611	0.090	1	-2			17-778	
3		2.593	3.889	0.097	16	-	0.598	11-852		0.445
6	0.130	47.000.00	4.167	0.104	1	3	0.602	12.037	18-056	0.451
9	0.139	2.778	4.101	0.104	1	G	0.611	12-222	18-333	0-458
4 0	0-148	2.963	4.444	0.111	1	9	0.620	12.407	18-611	0.465
3	0.157	3.148	4.722	0.118	17	^	0.650	12.598	18-889	0.472
6	0.167	3.333	5.000	0.125	100	3		12.778	19-167	0.479
9	0.176	3.519	5.278	0.132				12-963	19.444	0.486
9	0.110	0.018	4 210	0.102		H	0.648	P. 75 C. 75		0.493
5 0	0.185	8.704	5.556	0.139		9	0.657	13-148	19.722	0.459
3	0.194	3.889	5.833	0-146	18	a	0.667	18-838	20.000	0.500
6	0.204	4-074	6.111	0-158	10	3	0.676	18-519	20-278	0.507
9	0.213	4-259	6.389	0.160		5	0.685	13.704	20-556	0.514
9	0 210	4 200		0.000		9	0.694	13-689	20.833	0.521
6 0	0.222	4.444	6.667	0.167		7	0 034	19 009	20 000	
3	0.231	4-630	6-944	0.174	19	0	0.704	14-074	21-111	0.528
6	0.241	4-815	7.222	0.181		3	0.718	14-259	21.389	0.585
ğ	0.250	5,000	7.500	0.188	e.	Ğ	0.722	14-444	21-667	0-542
_	1	100,000	1200000	A 5. 40000.	1	9	0.731	14-630	21.944	0.549
7 0	0.259	5-185	7.778	0.192	0.02	100	0 .0.			
3	.0.268	5.370	8-056	0.201	20	0	0.741	14.815	22.222	0.556
6	0.278	5.556	8.333	0.208		3	0.750	15-000	22.500	0.563
9	0.287	5.741	8.611	0.215	ı	6	0.759	15-185-	22.778	0.570
				000	ı	9	0.768	15:370	23.056	0.576
8 0	0.296	5.926	8.869	0.222	194531	3				
3	0.302	6-111	9.167	0.229	21		0.778	15-556	23.333	0.583
6	0.315	6.296	9-444	0.236	0.	3	0.787	15.741	23.611	0.590
9	0.324	6-481	9.722	0.248	ľ	6	0.796	15.926	23.889	0.597
9 0	0.333	6-667	10.000	0.250	•	9	0.805	16-111	24.167	0.604
8	0.342	6.852	10.278	0.257	400	3				0.611
6		7.037	10.556	0.264	22		0.815	16.296	24 444	
9	0.361	7.222	10-833	0.271	ı	3	0.824	16.481	24.722	0.618
A	0.301		1		ı	6	0.833	16.667	25.000	0.625
10 0	0.370	7.407	11-111	0.278	ı	9	0.842	16-852	25.278	0.632
3	0.379	7-593	11.389	0-285	23	^	0.852	17-037	25.556	0.639
6	0.389	7.778	11.667	0.292	40		0.861	17-222	25.833	0-646
9	0.398	7.963	11.944	0.299	I	8	0.870	17-407	26.111	0.653
355			12-222	0.306	ı				26:389	0.660
11 0	0.407	8-148		0.313	ı	9	0.879	17.593	TO. 908	0.000
3	0.416	8.333	12.500		24	0	0.889	17-778	26.667	0.667
6	0.426	8.519	12.778	0.320	1 .,	š	0.898	17-963	26-944	0.674
9	0.435	8.704	13.056	0.326	1	6	0.907	18-148	27.222	0.681
12 0	0.444	8-889	13-333	0.333	I.	9	0.916	18.333	27.500	0.688
3	0.453	9.074	13.611	0.840	•	9	0.910	10,000	27 000	400
6	0.463	9-259	13-889	0.347	25	0	0.926	18-519	27.778	0.695
9	0.472	9.444	14-167	0.354	1 -		0.985	18.704	28-056	0.701
	412	In same	1.00		•	~	Special Co.	2016 (5370)		#45/C/G/S/S/S