

TABLE 8 (CONTINUED)

## EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

## 20-FOOT HORIZONTAL DIMENSIONS

## 2 PERCENT LAND SLOPE

c	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5
h																
0.6	21	18	15	13	11	8	6	5	3	2	0	0	0	0	0	0
	-20	-16	-12	-8	-4	0	4	8	12	16	21	23	26	29	32	35
0.7	23	20	17	15	13	10	8	6	5	3	2	0	0	0	0	0
	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26	28	31	34
0.8	25	22	20	17	14	12	10	8	6	4	3	2	0	0	0	0
	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	28	31	33
0.9	27	24	22	19	16	14	12	10	8	6	4	3	2	0	0	0
	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26	30	33
1.0	29	26	24	21	18	16	14	12	10	8	6	4	3	2	0	0
	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29	32
1.1	31	28	26	23	21	18	16	14	11	10	8	6	4	3	2	0
	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26	31
1.2	33	31	28	25	23	20	18	15	13	11	9	8	6	4	3	2
	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29
1.3	35	33	30	27	25	22	20	17	15	13	11	9	8	6	4	3
	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26
1.4	37	35	32	29	27	24	22	19	17	15	13	11	9	7	6	4
	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24
1.5	39	37	34	31	29	26	24	21	19	17	15	13	11	9	7	6
	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22
1.6	42	39	36	33	31	28	26	23	21	19	17	15	13	11	9	7
	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20
1.7	44	41	38	35	33	30	28	25	23	21	19	16	14	13	11	9
	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18
1.8	46	43	40	37	35	32	30	27	25	23	20	18	16	14	12	11
	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16
1.9	48	45	42	39	37	34	32	29	27	25	22	20	18	16	14	12
	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14
2.0	50	47	44	42	39	36	34	31	29	26	24	22	20	18	16	14
	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12
2.1	52	49	46	44	41	38	36	33	31	28	26	24	22	20	18	16
	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10
2.2	54	51	48	46	43	40	38	35	33	30	28	26	24	22	20	18
	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8
2.3	56	53	51	48	45	42	40	37	35	32	30	28	26	23	21	19
	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6
2.4	58	55	53	50	47	44	42	39	37	34	32	30	28	25	23	21
	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4
2.5	60	58	55	52	49	46	44	41	39	36	34	32	29	27	25	23
	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2
2.6	62	60	57	54	51	49	46	43	41	38	36	34	31	29	27	25
	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0
2.7	64	62	59	56	53	51	48	45	43	40	38	36	33	31	29	27
	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2
2.8	66	64	61	58	55	53	50	47	45	42	40	38	35	33	31	29
	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4
2.9	68	66	63	60	57	55	52	49	47	44	42	40	37	35	33	31
	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6
3.0	71	68	65	62	59	57	54	51	49	46	44	42	39	37	35	32
	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8

TABLE 8 (CONTINUED)

EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

20-FOOT HORIZONTAL DIMENSIONS

2 PERCENT LAND SLOPE

c	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
h															
0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	38	41	44	47	50	53	56	59	61	64	67	70	73	76	79
0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	37	40	43	46	49	52	55	58	61	64	66	69	72	75	78
0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	36	39	42	45	48	51	54	57	60	63	66	69	71	74	77
0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	36	38	41	44	47	50	53	56	59	62	65	68	71	74	76
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	35	38	41	43	46	49	52	55	58	61	64	67	70	73	76
1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	34	37	40	43	46	48	51	54	57	60	63	66	69	72	75
1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	33	36	39	42	45	48	51	53	56	59	62	65	68	71	74
1.3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	31	35	38	41	44	47	50	53	56	58	61	64	67	70	73
1.4	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	29	33	37	40	43	46	49	52	55	58	61	63	66	69	72
1.5	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0
	26	31	35	39	42	45	48	51	54	57	60	63	66	68	71
1.6	6	4	3	2	0	0	0	0	0	0	0	0	0	0	0
	24	29	33	37	41	44	47	50	53	56	59	62	65	68	71
1.7	7	6	4	3	2	0	0	0	0	0	0	0	0	0	0
	22	26	31	35	39	43	46	49	52	55	58	61	64	67	70
1.8	9	7	6	4	3	2	0	0	0	0	0	0	0	0	0
	20	24	29	33	37	41	45	48	51	54	57	60	63	66	69
1.9	11	9	7	6	4	3	2	0	0	0	0	0	0	0	0
	18	22	26	31	35	39	43	47	50	53	56	59	62	65	68
2.0	12	10	9	7	6	4	3	2	0	0	0	0	0	0	0
	16	20	24	29	33	37	41	45	49	53	55	58	61	64	67
2.1	14	12	10	9	7	6	4	3	2	0	0	0	0	0	0
	14	18	22	26	31	35	39	43	47	52	55	58	60	63	66
2.2	16	14	12	10	9	7	6	4	3	2	0	0	0	0	0
	12	16	20	24	29	33	37	41	45	49	54	57	60	63	65
2.3	17	16	14	12	10	9	7	6	4	3	2	0	0	0	0
	10	14	18	22	26	31	35	39	43	47	51	56	59	62	65
2.4	19	17	15	14	12	10	9	7	6	4	3	2	0	0	0
	8	12	16	20	24	29	33	37	41	45	49	53	58	61	64
2.5	21	19	17	15	14	12	10	9	7	6	4	3	2	0	0
	6	10	14	18	22	26	31	35	39	43	47	51	56	60	63
2.6	23	21	19	17	15	13	12	10	9	7	6	4	3	2	0
	4	8	12	16	20	24	29	33	37	41	45	49	53	58	62
2.7	25	23	21	19	17	15	13	12	10	9	7	6	4	3	2
	2	6	10	14	18	22	26	31	35	39	43	47	51	56	60
2.8	27	24	22	21	19	17	15	13	12	10	8	7	6	4	3
	0	4	8	12	16	20	24	29	33	37	41	45	49	53	58
2.9	28	26	24	22	20	19	17	15	13	12	10	8	7	6	4
	-2	2	6	10	14	18	22	26	31	35	39	43	47	51	56
3.0	30	28	26	24	22	20	18	17	15	13	12	10	8	7	6
	-4	0	4	8	12	16	20	24	29	33	37	41	45	49	53

TABLE 8 (CONTINUED)

## EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

## 20-FOOT HORIZONTAL DIMENSIONS

## 3 PERCENT LAND SLOPE

c	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5
0.6	25	22	20	17	15	12	10	8	6	5	3	2	0	0	0	0
	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	28	31	34
0.7	27	24	22	19	17	14	12	10	8	6	5	3	2	0	0	0
	-27	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	27	30	33
0.8	29	27	24	21	19	16	14	12	10	8	6	5	3	2	0	0
	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29	32
0.9	31	29	26	23	21	18	16	14	12	10	8	6	4	3	2	0
	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26	31
1.0	33	31	28	25	23	20	18	16	13	11	9	8	6	4	3	2
	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29
1.1	35	33	30	27	25	22	20	17	15	13	11	9	8	6	4	3
	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26
1.2	37	35	32	29	27	24	22	19	17	15	13	11	9	8	6	4
	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24
1.3	39	37	34	31	29	26	24	21	19	17	15	13	11	9	8	6
	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22
1.4	42	39	36	33	31	28	26	23	21	19	17	15	13	11	9	7
	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20
1.5	44	41	38	35	33	30	28	25	23	21	19	17	15	13	11	9
	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18
1.6	46	43	40	38	35	32	30	27	25	23	20	18	16	14	13	11
	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16
1.7	48	45	42	40	37	34	32	29	27	25	22	20	18	16	14	12
	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14
1.8	50	47	44	42	39	36	34	31	29	27	24	22	20	18	16	14
	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12
1.9	52	49	47	44	41	38	36	33	31	29	26	24	22	20	18	16
	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10
2.0	54	51	49	46	43	40	38	35	33	31	28	26	24	22	20	18
	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8
2.1	56	54	51	48	45	42	40	37	35	32	30	28	26	24	21	19
	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6
2.2	58	56	53	50	47	45	42	39	37	34	32	30	28	25	23	21
	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4
2.3	60	58	55	52	49	47	44	41	39	36	34	32	30	27	25	23
	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2
2.4	62	60	57	54	51	49	46	43	41	38	36	34	31	29	27	25
	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0
2.5	64	62	59	56	53	51	48	45	43	40	38	36	33	31	29	27
	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2
2.6	66	64	61	58	55	53	50	48	45	42	40	38	35	33	31	29
	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4
2.7	68	66	63	60	58	55	52	50	47	44	42	40	37	35	33	31
	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6
2.8	71	68	65	62	60	57	54	52	49	47	44	42	39	37	35	33
	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8
2.9	73	70	67	64	62	59	56	54	51	49	46	44	41	39	37	34
	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10
3.0	75	72	69	66	64	61	58	56	53	51	48	46	43	41	39	36
	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12

TABLE 8 (CONTINUED)

EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT20-FOOT HORIZONTAL DIMENSIONS3 PERCENT LAND SLOPE

c	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
h															
0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	37	39	42	45	48	51	54	57	60	63	66	69	72	75	77
0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	36	39	42	44	47	50	53	56	59	62	65	68	71	74	77
0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	35	38	41	44	47	49	52	55	58	61	64	67	70	73	76
0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	34	37	40	43	46	49	52	54	57	60	63	66	69	72	75
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	33	36	39	42	45	48	51	54	57	59	62	65	68	71	74
1.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	31	35	38	41	44	47	50	53	56	59	62	65	67	70	73
1.2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	29	33	37	40	43	46	49	52	55	58	61	64	67	69	72
1.3	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0
	26	31	35	39	42	45	48	51	54	57	60	63	66	69	72
1.4	6	4	3	2	0	0	0	0	0	0	0	0	0	0	0
	24	29	33	37	41	44	47	50	53	56	59	62	65	68	71
1.5	7	6	4	3	2	0	0	0	0	0	0	0	0	0	0
	22	26	31	35	39	43	46	49	52	55	58	61	64	67	70
1.6	9	7	6	4	3	2	0	0	0	0	0	0	0	0	0
	20	24	29	33	37	41	45	48	51	54	57	60	63	66	69
1.7	11	9	7	6	4	3	2	0	0	0	0	0	0	0	0
	18	22	26	31	35	39	43	47	51	53	56	59	62	65	68
1.8	12	11	9	7	6	4	3	2	0	0	0	0	0	0	0
	16	20	24	29	33	37	41	45	49	53	56	58	61	64	67
1.9	14	12	10	9	7	6	4	3	2	0	0	0	0	0	0
	14	18	22	26	31	35	39	43	47	52	55	58	61	63	66
2.0	16	14	12	10	9	7	6	4	3	2	0	0	0	0	0
	12	16	20	24	29	33	37	41	45	49	53	57	60	63	66
2.1	18	16	14	12	10	9	7	6	4	3	2	0	0	0	0
	10	14	18	22	26	31	35	39	43	47	51	56	59	62	65
2.2	19	17	16	14	12	10	9	7	6	4	3	2	0	0	0
	8	12	16	20	24	29	33	37	41	45	49	53	58	61	64
2.3	21	19	17	15	14	12	10	9	7	6	4	3	2	0	0
	6	10	14	18	22	26	31	35	39	43	47	51	56	60	63
2.4	23	21	19	17	15	14	12	10	9	7	6	4	3	2	0
	4	8	12	16	20	24	29	33	37	41	45	49	53	58	62
2.5	25	23	21	19	17	15	13	12	10	9	7	6	4	3	2
	2	6	10	14	18	22	26	31	35	39	43	47	51	56	60
2.6	27	25	23	21	19	17	15	13	12	10	9	7	6	4	3
	0	4	8	12	16	20	24	29	33	37	41	45	49	53	58
2.7	28	26	24	22	21	19	17	15	13	12	10	9	7	6	4
	-2	2	6	10	14	18	22	26	31	35	39	43	47	51	56
2.8	30	28	26	24	22	20	19	17	15	13	12	10	9	7	6
	-4	0	4	8	12	16	20	24	29	33	37	41	45	49	53
2.9	32	30	28	26	24	22	20	18	17	15	13	12	10	9	7
	-6	-2	2	6	10	14	18	22	26	31	35	39	43	47	51
3.0	34	32	30	28	26	24	22	20	18	17	15	13	12	10	9
	-8	-4	0	4	8	12	16	20	24	29	33	37	41	45	49

TABLE 8 (CONTINUED)

## EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

## 20-FOOT HORIZONTAL DIMENSIONS

## 4 PERCENT LAND SLOPE

c	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5
0.6	29	27	24	21	19	16	14	12	10	8	6	5	3	2	1	0
	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29	32
0.7	31	29	26	23	21	18	16	14	12	10	8	6	5	3	2	0
	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26	31
0.8	33	31	28	25	23	20	18	16	13	11	10	8	6	5	3	2
	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29
0.9	35	33	30	27	25	22	20	18	15	13	11	9	8	6	5	3
	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26
1.0	37	35	32	29	27	24	22	19	17	15	13	11	9	8	6	5
	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24
1.1	39	37	34	31	29	26	24	21	19	17	15	13	11	9	8	6
	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22
1.2	42	39	36	34	31	28	26	23	21	19	17	15	13	11	9	8
	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20
1.3	44	41	38	36	33	30	28	25	23	21	19	17	15	13	11	9
	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18
1.4	46	43	40	38	35	32	30	27	25	23	21	18	16	14	13	11
	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16
1.5	48	45	42	40	37	34	32	29	27	25	22	20	18	16	14	12
	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14
1.6	50	47	45	42	39	36	34	31	29	27	24	22	20	18	16	14
	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12
1.7	52	50	47	44	41	38	36	33	31	29	26	24	22	20	18	16
	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10
1.8	54	52	49	46	43	41	38	35	33	31	28	26	24	22	20	18
	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8
1.9	56	54	51	48	45	43	40	37	35	33	30	28	26	24	22	20
	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6
2.0	58	56	53	50	47	45	42	39	37	35	32	30	28	25	23	21
	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4
2.1	60	58	55	52	49	47	44	41	39	37	34	32	30	27	25	23
	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2
2.2	62	60	57	54	51	49	46	44	41	39	36	34	32	29	27	25
	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0
2.3	64	62	59	56	53	51	48	46	43	41	38	36	33	31	29	27
	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2
2.4	66	64	61	58	56	53	50	48	45	43	40	38	35	33	31	29
	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4
2.5	69	66	63	60	58	55	52	50	47	45	42	40	37	35	33	31
	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6
2.6	71	68	65	62	60	57	54	52	49	47	44	42	39	37	35	33
	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8
2.7	73	70	67	65	62	59	56	54	51	49	46	44	41	39	37	35
	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10
2.8	75	72	69	67	64	61	58	56	53	51	48	46	43	41	39	36
	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12
2.9	77	74	72	69	66	63	60	58	55	53	50	48	45	43	41	38
	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14
3.0	79	76	74	71	68	65	63	60	57	55	52	50	47	45	43	40
	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16

TABLE 8 (CONTINUED)

## EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

## 20-FOOT HORIZONTAL DIMENSIONS

## 4 PERCENT LAND SLOPE

c	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
h															
0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	35	38	41	44	47	50	53	55	58	61	64	67	70	73	76
0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	34	37	40	43	46	49	52	55	58	60	63	66	69	72	75
0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	33	36	39	42	45	48	51	54	57	60	63	65	68	71	74
0.9	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	31	35	38	41	44	47	50	53	56	59	62	65	68	70	73
1.0	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
	29	33	37	40	43	46	49	52	55	58	61	64	67	70	73
1.1	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0
	26	31	35	39	42	45	48	51	54	57	60	63	66	69	72
1.2	6	4	3	2	0	0	0	0	0	0	0	0	0	0	0
	24	29	33	37	42	44	47	50	53	56	59	62	65	68	71
1.3	8	6	4	3	2	1	0	0	0	0	0	0	0	0	0
	22	26	31	35	39	43	47	49	52	55	58	61	64	67	70
1.4	9	7	6	4	3	2	1	0	0	0	0	0	0	0	0
	20	24	29	33	37	41	45	49	52	54	57	60	63	66	69
1.5	11	9	7	6	4	3	2	1	0	0	0	0	0	0	0
	18	22	26	31	35	39	43	47	51	54	57	59	62	65	68
1.6	12	11	9	7	6	4	3	2	1	0	0	0	0	0	0
	16	20	24	29	33	37	41	45	49	53	56	59	62	64	67
1.7	14	12	11	9	7	6	4	3	2	0	0	0	0	0	0
	14	18	22	26	31	35	39	43	47	52	55	58	61	64	67
1.8	16	14	12	11	9	7	6	4	3	2	1	0	0	0	0
	12	16	20	24	29	33	37	41	45	49	53	57	60	63	66
1.9	18	16	14	12	10	9	7	6	4	3	2	1	0	0	0
	10	14	18	22	26	31	35	39	43	47	51	56	59	62	65
2.0	19	17	16	14	12	10	9	7	6	4	3	2	1	0	0
	8	12	16	20	24	29	33	37	41	45	49	53	58	61	64
2.1	21	19	17	15	14	12	10	9	7	6	4	3	2	1	0
	6	10	14	18	22	26	31	35	39	43	47	51	56	60	63
2.2	23	21	19	17	15	14	12	10	9	7	6	4	3	2	0
	4	8	12	16	20	24	29	33	37	41	45	49	53	58	62
2.3	25	23	21	19	17	15	14	12	10	9	7	6	4	3	2
	2	6	10	14	18	22	26	31	35	39	43	47	51	56	60
2.4	27	25	23	21	19	17	15	14	12	10	9	7	6	4	3
	0	4	8	12	16	20	24	29	33	37	41	45	49	53	58
2.5	29	26	24	22	21	19	17	15	13	12	10	9	7	6	4
	-2	2	6	10	14	18	22	26	31	35	39	43	47	51	56
2.6	30	28	26	24	22	20	19	17	15	13	12	10	9	7	6
	-4	0	4	8	12	16	20	24	29	33	37	41	45	49	53
2.7	32	30	28	26	24	22	20	19	17	15	13	12	10	9	7
	-6	-2	2	6	10	14	18	22	26	31	35	39	43	47	51
2.8	34	32	30	28	26	24	22	20	18	17	15	13	12	10	9
	-8	-4	0	4	8	12	16	20	24	29	33	37	41	45	49
2.9	36	34	32	30	28	26	24	22	20	18	17	15	13	12	10
	-10	-6	-2	2	6	10	14	18	22	26	31	35	39	43	47
3.0	38	36	34	32	30	28	26	24	22	20	18	17	15	13	12
	-12	-8	-4	0	4	8	12	16	20	24	29	33	37	41	45

TABLE 8 (CONTINUED)

## EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

## 20-FOOT HORIZONTAL DIMENSIONS

## 5 PERCENT LAND SLOPE

c	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5
h																
0.6	33	31	28	25	23	20	18	16	14	12	10	8	6	5	3	2
	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29
0.7	35	33	30	27	25	22	20	18	15	13	11	10	8	6	5	3
	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26
0.8	37	35	32	30	27	24	22	20	17	15	13	11	9	8	6	5
	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24
0.9	39	37	34	32	29	26	24	22	19	17	15	13	11	9	8	6
	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22
1.0	42	39	36	34	31	28	26	24	21	19	17	15	13	11	9	8
	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20
1.1	44	41	38	36	33	30	28	25	23	21	19	17	15	13	11	9
	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18
1.2	46	43	41	38	35	32	30	27	25	23	21	19	16	15	13	11
	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16
1.3	48	45	43	40	37	34	32	29	27	25	23	20	18	16	14	13
	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14
1.4	50	48	45	42	39	37	34	31	29	27	24	22	20	18	16	14
	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12
1.5	52	50	47	44	41	39	36	33	31	29	26	24	22	20	18	16
	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10
1.6	54	52	49	46	43	41	38	36	33	31	28	26	24	22	20	18
	-54	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8
1.7	56	54	51	48	45	43	40	38	35	33	30	28	26	24	22	20
	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6
1.8	58	56	53	50	47	45	42	40	37	35	32	30	28	26	23	21
	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4
1.9	60	58	55	52	49	47	44	42	39	37	34	32	30	27	25	23
	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2
2.0	62	60	57	54	52	49	46	44	41	39	36	34	32	29	27	25
	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0
2.1	64	62	59	56	54	51	48	46	43	41	38	36	34	31	29	27
	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2
2.2	66	64	61	58	56	53	50	48	45	43	40	38	36	33	31	29
	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4
2.3	69	66	63	61	58	55	52	50	47	45	42	40	37	35	33	31
	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6
2.4	71	68	65	63	60	57	54	52	49	47	44	42	39	37	35	33
	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8
2.5	73	70	67	65	62	59	56	54	51	49	46	44	41	39	37	35
	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10
2.6	75	72	70	67	64	61	59	56	53	51	48	46	43	41	39	37
	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12
2.7	77	75	72	69	66	63	61	58	55	53	50	48	45	43	41	38
	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14
2.8	79	77	74	71	68	65	63	60	57	55	52	50	47	45	43	40
	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16
2.9	81	79	76	73	70	67	65	62	59	57	54	52	49	47	45	42
	-80	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18
3.0	83	81	78	75	72	69	67	64	61	59	56	54	51	49	47	44
	-83	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20

TABLE 8 (CONTINUED)

EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

20-FOOT HORIZONTAL DIMENSIONS

5 PERCENT LAND SLOPE

c	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
h															
0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	33	36	39	42	45	48	51	54	57	60	63	66	68	71	74
0.7	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	31	35	38	41	44	47	50	53	56	59	62	65	68	71	73
0.8	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	29	33	38	40	43	46	49	52	55	58	61	64	67	70	73
0.9	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0
	26	31	35	39	43	45	48	51	54	57	60	63	66	69	72
1.0	6	5	3	2	0	0	0	0	0	0	0	0	0	0	0
	24	29	33	37	42	45	48	50	53	56	59	62	65	68	71
1.1	8	6	5	3	2	0	0	0	0	0	0	0	0	0	0
	22	26	31	35	39	44	47	50	53	55	58	61	64	67	70
1.2	9	8	6	5	3	2	0	0	0	0	0	0	0	0	0
	20	24	29	33	37	41	46	49	52	55	58	60	63	66	69
1.3	11	9	8	6	5	3	2	1	0	0	0	0	0	0	0
	18	22	26	31	35	39	43	47	51	54	57	60	63	65	68
1.4	12	11	9	7	6	5	3	2	1	0	0	0	0	0	0
	16	20	24	29	33	37	41	45	49	53	56	59	62	65	68
1.5	14	12	11	9	7	6	5	3	2	0	0	0	0	0	0
	14	18	22	26	31	35	39	43	47	52	55	58	61	64	67
1.6	16	14	12	11	9	7	6	5	3	2	0	0	0	0	0
	12	16	20	24	29	33	37	41	45	49	54	57	60	63	66
1.7	18	16	14	12	11	9	7	6	5	3	2	0	0	0	0
	10	14	18	22	26	31	35	39	43	47	51	56	59	62	65
1.8	19	18	16	14	12	11	9	7	6	5	3	2	1	0	0
	8	12	16	20	24	29	33	37	41	45	49	53	58	61	64
1.9	21	19	17	16	14	12	10	9	7	6	5	3	2	1	0
	6	10	14	18	22	26	31	35	39	43	47	51	56	60	63
2.0	23	21	19	17	15	14	12	10	9	7	6	5	3	2	0
	4	8	12	16	20	24	29	33	37	41	45	49	53	58	62
2.1	25	23	21	19	17	15	14	12	10	9	7	6	5	3	2
	2	6	10	14	18	22	26	31	35	39	43	47	51	56	60
2.2	27	25	23	21	19	17	15	14	12	10	9	7	6	4	3
	0	4	8	12	16	20	24	29	33	37	41	45	49	53	58
2.3	29	27	25	23	21	19	17	15	14	12	10	9	7	6	4
	-2	2	6	10	14	18	22	26	31	35	39	43	47	51	56
2.4	31	28	26	24	22	21	19	17	15	13	12	10	9	7	6
	-4	0	4	8	12	16	20	24	29	33	37	41	45	49	53
2.5	32	30	28	26	24	22	20	19	17	15	13	12	10	9	7
	-6	-2	2	6	10	14	18	22	26	31	35	39	43	47	51
2.6	34	32	30	28	26	24	22	20	19	17	15	13	12	10	9
	-8	-4	0	4	8	12	16	20	24	29	33	37	41	45	49
2.7	36	34	32	30	28	26	24	22	20	18	17	15	13	12	10
	-10	-6	-2	2	6	10	14	18	22	26	31	35	39	43	47
2.8	38	36	34	32	30	28	26	24	22	20	18	17	15	13	12
	-12	-8	-4	0	4	8	12	16	20	24	29	33	37	41	45
2.9	40	38	36	34	32	29	27	26	24	22	20	18	17	15	13
	-14	-10	-6	-2	2	6	10	14	18	22	26	31	35	39	43
3.0	42	40	38	35	33	31	29	27	25	24	22	20	18	16	15
	-16	-12	-8	-4	0	4	8	12	16	20	24	29	33	37	41

TABLE 8 (CONTINUED)

## EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

## 20-FOOT HORIZONTAL DIMENSIONS

## 6 PERCENT LAND SLOPE

c	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5
h																
0.6	37	35	32	30	27	24	22	20	17	15	13	11	10	8	6	5
	-37	-35	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24
0.7	39	37	34	32	29	26	24	22	19	17	15	13	11	9	8	6
	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22
0.8	42	39	37	34	31	28	26	24	21	19	17	15	13	11	9	8
	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20
0.9	44	41	39	36	33	31	28	26	23	21	19	17	15	13	11	9
	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18
1.0	46	44	41	38	35	33	30	28	25	23	21	19	17	15	13	11
	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16
1.1	48	46	43	40	37	35	32	30	27	25	23	20	18	16	14	13
	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14
1.2	50	48	45	42	39	37	34	32	29	27	25	22	20	18	16	14
	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12
1.3	52	50	47	44	41	39	36	34	31	29	26	24	22	20	18	16
	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10
1.4	54	52	49	46	43	41	38	36	33	31	28	26	24	22	20	18
	-54	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8
1.5	56	54	51	48	45	43	40	38	35	33	30	28	26	24	22	20
	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6
1.6	58	56	53	50	48	45	42	40	37	35	32	30	28	26	24	21
	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4
1.7	60	58	55	52	50	47	44	42	39	37	34	32	30	28	25	23
	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2
1.8	62	60	57	54	52	49	46	44	41	39	36	34	32	29	27	25
	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0
1.9	64	62	59	57	54	51	48	46	43	41	38	36	34	31	29	27
	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2
2.0	66	64	61	59	56	53	50	48	45	43	40	38	36	33	31	29
	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4
2.1	69	66	63	61	58	55	52	50	47	45	42	40	38	35	33	31
	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6
2.2	71	68	66	63	60	57	55	52	49	47	44	42	40	37	35	33
	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8
2.3	73	71	68	65	62	59	57	54	51	49	46	44	42	39	37	35
	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10
2.4	75	73	70	67	64	61	59	56	53	51	48	46	43	41	39	37
	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12
2.5	77	75	72	69	66	63	61	58	55	53	50	48	45	43	41	39
	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14
2.6	79	77	74	71	68	65	63	60	57	55	52	50	47	45	43	40
	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16
2.7	81	79	76	73	70	68	65	62	59	57	54	52	49	47	45	42
	-80	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18
2.8	83	81	78	75	72	70	67	64	62	59	56	54	51	49	47	44
	-83	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20
2.9	85	83	80	77	74	72	69	66	64	61	58	56	53	51	49	46
	-85	-80	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22
3.0	87	85	82	79	76	74	71	68	66	63	60	58	55	53	51	48
	-87	-82	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24

TABLE 8 (CONTINUED)

## EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

## 20-FOOT HORIZONTAL DIMENSIONS

## 6 PERCENT LAND SLOPE

c	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
h															
0.6	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	29	33	38	41	44	46	49	52	55	58	61	64	67	70	73
0.7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0
	26	31	35	39	43	46	49	51	54	57	60	63	66	69	72
0.8	6	5	3	2	0	0	0	0	0	0	0	0	0	0	0
	24	29	33	37	42	45	48	51	54	56	59	62	65	68	71
0.9	8	6	5	3	2	1	0	0	0	0	0	0	0	0	0
	22	26	31	35	39	43	47	50	53	56	59	61	64	67	70
1.0	9	8	6	5	3	2	1	0	0	0	0	0	0	0	0
	20	24	29	33	37	41	45	49	52	55	58	61	64	66	69
1.1	11	9	8	6	5	3	2	1	0	0	0	0	0	0	0
	18	22	26	31	35	39	43	47	51	54	57	60	63	66	69
1.2	13	11	9	8	6	5	3	2	1	0	0	0	0	0	0
	16	20	24	29	33	37	41	45	49	53	56	59	62	65	68
1.3	14	12	11	9	8	6	5	3	2	0	0	0	0	0	0
	14	18	22	26	31	35	39	43	47	52	55	58	61	64	67
1.4	16	14	12	11	9	8	6	5	3	2	0	0	0	0	0
	12	16	20	24	29	33	37	41	45	49	54	57	60	63	66
1.5	18	16	14	12	11	9	8	6	5	3	2	1	0	0	0
	10	14	18	22	26	31	35	39	43	47	51	56	59	62	65
1.6	20	18	16	14	12	11	9	7	6	5	3	2	1	0	0
	8	12	16	20	24	29	33	37	41	45	49	53	58	61	64
1.7	21	19	17	16	14	12	11	9	7	6	5	3	2	1	0
	6	10	14	18	22	26	31	35	39	43	47	51	56	60	63
1.8	23	21	19	17	16	14	12	11	9	7	6	5	3	2	0
	4	8	12	16	20	24	29	33	37	41	45	49	53	58	63
1.9	25	23	21	19	17	15	14	12	10	9	7	6	5	3	2
	2	6	10	14	18	22	26	31	35	39	43	47	51	56	60
2.0	27	25	23	21	19	17	15	14	12	10	9	7	6	5	3
	0	4	8	12	16	20	24	29	33	37	41	45	49	53	58
2.1	29	27	25	23	21	19	17	15	14	12	10	9	7	6	5
	-2	2	6	10	14	18	22	26	31	35	39	43	47	51	56
2.2	31	28	26	24	23	21	19	17	15	14	12	10	9	7	6
	-4	0	4	8	12	16	20	24	29	33	37	41	45	49	53
2.3	32	30	28	26	24	22	20	19	17	15	14	12	10	9	7
	-6	-2	2	6	10	14	18	22	26	31	35	39	43	47	51
2.4	34	32	30	28	26	24	22	20	19	17	15	13	12	10	9
	-8	-4	0	4	8	12	16	20	24	29	33	37	41	45	49
2.5	36	34	32	30	28	26	24	22	20	18	17	15	13	12	10
	-10	-6	-2	2	6	10	14	18	22	26	31	35	39	43	47
2.6	38	36	34	32	30	28	26	24	22	20	18	17	15	13	12
	-12	-8	-4	0	4	8	12	16	20	24	29	33	37	41	45
2.7	40	38	36	34	32	30	28	26	24	22	20	18	17	15	13
	-14	-10	-6	-2	2	6	10	14	18	22	26	31	35	39	43
2.8	42	40	38	36	33	31	29	27	25	24	22	20	18	17	15
	-16	-12	-8	-4	0	4	8	12	16	20	24	29	33	37	41
2.9	44	42	40	37	35	33	31	29	27	25	24	22	20	18	17
	-18	-14	-10	-6	-2	2	6	10	14	18	22	26	31	35	39
3.0	46	44	42	39	37	35	33	31	29	27	25	23	22	20	18
	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29	33	37

TABLE 8 (CONTINUED)

## EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

## 20-FOOT HORIZONTAL DIMENSIONS

## 8 PERCENT LAND SLOPE

c	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5
0.6	46	44	41	38	35	33	30	28	25	23	21	19	17	15	13	11
	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16
0.7	48	46	43	40	37	35	32	30	27	25	23	21	19	17	15	13
	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14
0.8	50	48	45	42	40	37	34	32	29	27	25	23	20	18	16	15
	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12
0.9	52	50	47	44	42	39	36	34	31	29	27	24	22	20	18	16
	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10
1.0	54	52	49	46	44	41	38	36	33	31	29	26	24	22	20	18
	-54	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8
1.1	56	54	51	48	46	43	40	38	35	33	31	28	26	24	22	20
	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6
1.2	58	56	53	51	48	45	42	40	37	35	33	30	28	26	24	22
	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4
1.3	60	58	55	53	50	47	44	42	39	37	34	32	30	28	26	23
	-60	-55	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2
1.4	62	60	58	55	52	49	47	44	41	39	36	34	32	30	27	25
	-62	-57	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0
1.5	64	62	60	57	54	51	49	46	43	41	38	36	34	32	29	27
	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2
1.6	66	64	62	59	56	53	51	48	45	43	40	38	36	33	31	29
	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4
1.7	69	66	64	61	58	55	53	50	47	45	42	40	38	35	33	31
	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6
1.8	71	69	66	63	60	57	55	52	49	47	44	42	40	37	35	33
	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8
1.9	73	71	68	65	62	59	57	54	52	49	46	44	42	39	37	35
	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10
2.0	75	73	70	67	64	62	59	56	54	51	49	46	44	41	39	37
	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12
2.1	77	75	72	69	66	64	61	58	56	53	51	48	46	43	41	39
	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14
2.2	79	77	74	71	68	66	63	60	58	55	53	50	48	45	43	41
	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16
2.3	81	79	76	73	71	68	65	62	60	57	55	52	50	47	45	43
	-81	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18
2.4	83	81	78	75	73	70	67	64	62	59	57	54	52	49	47	45
	-83	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20
2.5	85	83	80	77	75	72	69	66	64	61	59	56	54	51	49	46
	-85	-80	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22
2.6	87	85	82	80	77	74	71	68	66	63	61	58	56	53	51	48
	-87	-82	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24
2.7	89	87	84	82	79	76	73	71	68	65	63	60	58	55	53	50
	-89	-84	-80	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26
2.8	91	89	87	84	81	78	75	73	70	67	65	62	60	57	55	52
	-91	-86	-82	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29
2.9	93	91	89	86	83	80	77	75	72	69	67	64	62	59	57	54
	-93	-89	-85	-80	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31
3.0	96	93	91	88	85	82	79	77	74	71	69	66	64	61	59	56
	-95	-91	-87	-82	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33

TABLE 8 (CONTINUED)

## EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

## 20-FOOT HORIZONTAL DIMENSIONS

## 8 PERCENT LAND SLOPE

c	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
h															
0.6	9	8	6	5	4	2	1	0	0	0	0	0	0	0	0
	20	24	29	33	37	41	45	49	52	55	58	61	64	67	70
0.7	11	9	8	6	5	4	2	1	0	0	0	0	0	0	0
	18	22	26	31	35	39	43	47	51	54	57	60	63	66	69
0.8	13	11	9	8	6	5	4	2	1	0	0	0	0	0	0
	16	20	24	29	33	37	41	45	49	53	56	59	62	65	68
0.9	14	13	11	9	8	6	5	4	2	1	0	0	0	0	0
	14	18	22	26	31	35	39	43	47	51	55	58	61	64	67
1.0	16	14	13	11	9	8	6	5	4	2	1	0	0	0	0
	12	16	20	24	29	33	37	41	45	49	53	57	60	63	66
1.1	18	16	14	12	11	9	8	6	5	4	2	1	0	0	0
	10	14	18	22	26	31	35	39	43	47	51	56	60	62	65
1.2	20	18	16	14	12	11	9	8	6	5	4	2	1	0	0
	8	12	16	20	24	29	33	37	41	45	49	53	58	62	65
1.3	21	20	18	16	14	12	11	9	8	6	5	4	2	1	0
	6	10	14	18	22	26	31	35	39	43	47	51	56	60	64
1.4	23	21	19	18	16	14	12	11	9	8	6	5	4	2	0
	4	8	12	16	20	24	29	33	37	41	45	49	53	58	63
1.5	25	23	21	19	17	16	14	12	11	9	8	6	5	4	2
	2	6	10	14	18	22	26	31	35	39	43	47	51	56	60
1.6	27	25	23	21	19	17	16	14	12	11	9	8	6	5	4
	0	4	8	12	16	20	24	29	33	37	41	45	49	53	58
1.7	29	27	25	23	21	19	17	16	14	12	11	9	8	6	5
	-2	2	6	10	14	18	22	26	31	35	39	43	47	51	56
1.8	31	29	27	25	23	21	19	17	15	14	12	11	9	8	6
	-4	0	4	8	12	16	20	24	29	33	37	41	45	49	53
1.9	33	31	28	26	24	23	21	19	17	15	14	12	11	9	8
	-6	-2	2	6	10	14	18	22	26	31	35	39	43	47	51
2.0	35	32	30	28	26	24	22	21	19	17	15	14	12	11	9
	-8	-4	0	4	8	12	16	20	24	29	33	37	41	45	49
2.1	36	34	32	30	28	26	24	22	20	19	17	15	14	12	11
	-10	-6	-2	2	6	10	14	18	22	26	31	35	39	43	47
2.2	38	36	34	32	30	28	26	24	22	20	19	17	15	14	12
	-12	-8	-4	0	4	8	12	16	20	24	29	33	37	41	45
2.3	40	38	36	34	32	30	28	26	24	22	20	19	17	15	14
	-14	-10	-6	-2	2	6	10	14	18	22	26	31	35	39	43
2.4	42	40	38	36	34	32	30	28	26	24	22	20	18	17	15
	-16	-12	-8	-4	0	4	8	12	16	20	24	29	33	37	41
2.5	44	42	40	38	35	33	31	29	27	26	24	22	20	18	17
	-18	-14	-10	-6	-2	2	6	10	14	18	22	26	31	35	39
2.6	46	44	42	39	37	35	33	31	29	27	25	24	22	20	18
	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29	33	37
2.7	48	46	44	41	39	37	35	33	31	29	27	25	23	22	20
	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26	31	35
2.8	50	48	46	43	41	39	37	35	33	31	29	27	25	23	22
	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29	33
2.9	52	50	47	45	43	41	39	37	35	33	31	29	27	25	23
	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26	31
3.0	54	52	49	47	45	43	41	39	36	34	32	31	29	27	25
	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29

TABLE 8 (CONTINUED)

## EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

## 20-FOOT HORIZONTAL DIMENSIONS

## 10 PERCENT LAND SLOPE

c	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5
h																
0.6	54	52	49	47	44	41	39	36	33	31	29	26	24	22	20	18
	-54	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8
0.7	56	54	52	49	46	43	41	38	35	33	31	28	26	24	22	20
	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6
0.8	58	56	54	51	48	45	43	40	38	35	33	30	28	26	24	22
	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4
0.9	60	58	56	53	50	47	45	42	40	37	35	32	30	28	26	24
	-60	-55	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2	2
1.0	62	60	58	55	52	49	47	44	42	39	37	34	32	30	28	25
	-62	-57	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4	0
1.1	64	62	60	57	54	51	49	46	44	41	39	36	34	32	29	27
	-64	-59	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6	-2
1.2	67	64	62	59	56	54	51	48	46	43	41	38	36	34	31	29
	-66	-61	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8	-4
1.3	69	67	64	61	58	56	53	50	48	45	43	40	38	36	33	31
	-68	-63	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10	-6
1.4	71	69	66	63	60	58	55	52	50	47	45	42	40	38	35	33
	-70	-65	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12	-8
1.5	73	71	68	65	62	60	57	54	52	49	47	44	42	39	37	35
	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14	-10
1.6	75	73	70	67	65	62	59	56	54	51	49	46	44	41	39	37
	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16	-12
1.7	77	75	72	69	67	64	61	58	56	53	51	48	46	43	41	39
	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18	-14
1.8	79	77	74	72	69	66	63	60	58	55	53	50	48	45	43	41
	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20	-16
1.9	81	79	76	74	71	68	65	63	60	57	55	52	50	47	45	43
	-81	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22	-18
2.0	83	81	79	76	73	70	67	65	62	59	57	54	52	49	47	45
	-83	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24	-20
2.1	85	83	81	78	75	72	69	67	64	61	59	56	54	51	49	47
	-85	-80	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26	-22
2.2	87	85	83	80	77	74	71	69	66	63	61	58	56	53	51	49
	-87	-82	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29	-24
2.3	89	87	85	82	79	76	73	71	68	65	63	60	58	55	53	51
	-89	-84	-80	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31	-26
2.4	91	89	87	84	81	78	76	73	70	68	65	62	60	57	55	53
	-91	-86	-82	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33	-29
2.5	93	91	89	86	83	80	78	75	72	70	67	64	62	59	57	55
	-93	-88	-85	-80	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35	-31
2.6	96	93	91	88	85	82	80	77	74	72	69	66	64	61	59	57
	-95	-90	-87	-82	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37	-33
2.7	98	96	93	90	87	85	82	79	76	74	71	68	66	63	61	59
	-97	-92	-89	-85	-80	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39	-35
2.8	100	98	95	92	89	87	84	81	78	76	73	71	68	65	63	61
	-99	-95	-91	-87	-82	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41	-37
2.9	102	100	97	94	91	89	86	83	80	78	75	73	70	67	65	63
	-101	-97	-93	-89	-85	-80	-76	-72	-68	-64	-60	-56	-51	-47	-43	-39
3.0	104	102	99	96	94	91	88	85	82	80	77	75	72	69	67	65
	-103	-99	-95	-91	-87	-82	-78	-74	-70	-66	-62	-58	-53	-49	-45	-41

TABLE 8 (CONTINUED)

## EARTHWORK QUANTITIES FOR CUT AND FILL TERRACES IN CUBIC FEET PER FOOT

## 20-FOOT HORIZONTAL DIMENSIONS

## 10 PERCENT LAND SLOPE

c	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
h															
0.6	16	14	13	11	9	8	7	5	4	3	0	0	0	0	0
	12	16	20	24	29	33	37	41	45	49	55	58	61	64	67
0.7	18	16	14	13	11	9	8	6	5	4	3	1	0	0	0
	10	14	18	22	26	31	35	39	43	47	51	56	60	63	66
0.8	20	18	16	14	13	11	9	8	6	5	4	3	1	0	0
	8	12	16	20	24	29	33	37	41	45	49	53	58	62	65
0.9	22	20	18	16	14	13	11	9	8	6	5	4	3	1	0
	6	10	14	18	22	26	31	35	39	43	47	51	56	60	64
1.0	23	21	20	18	16	14	13	11	9	8	6	5	4	3	0
	4	8	12	16	20	24	29	33	37	41	45	49	53	58	63
1.1	25	23	21	19	18	16	14	12	11	9	8	6	5	4	3
	2	6	10	14	18	22	26	31	35	39	43	47	51	56	60
1.2	27	25	23	21	19	17	16	14	12	11	9	8	6	5	4
	0	4	8	12	16	20	24	29	33	37	41	45	49	53	58
1.3	29	27	25	23	21	19	17	16	14	12	11	9	8	6	5
	-2	2	6	10	14	18	22	26	31	35	39	43	47	51	56
1.4	31	29	27	25	23	21	19	17	16	14	12	11	9	8	6
	-4	0	4	8	12	16	20	24	29	33	37	41	45	49	53
1.5	33	31	29	27	25	23	21	19	17	16	14	12	11	9	8
	-6	-2	2	6	10	14	18	22	26	31	35	39	43	47	51
1.6	35	33	30	28	26	24	23	21	19	17	15	14	12	11	9
	-8	-4	0	4	8	12	16	20	24	29	33	37	41	45	49
1.7	37	34	32	30	28	26	24	22	21	19	17	15	14	12	11
	-10	-6	-2	2	6	10	14	18	22	26	31	35	39	43	47
1.8	39	36	34	32	30	28	26	24	22	21	19	17	15	14	12
	-12	-8	-4	0	4	8	12	16	20	24	29	33	37	41	45
1.9	40	38	36	34	32	30	28	26	24	22	20	19	17	15	14
	-14	-10	-6	-2	2	6	10	14	18	22	26	31	35	39	43
2.0	42	40	38	36	34	32	30	28	26	24	22	20	19	17	15
	-16	-12	-8	-4	0	4	8	12	16	20	24	29	33	37	41
2.1	44	42	40	38	36	34	32	30	28	26	24	22	20	19	17
	-18	-14	-10	-6	-2	2	6	10	14	18	22	26	31	35	39
2.2	46	44	42	40	37	35	33	31	29	27	26	24	22	20	18
	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29	33	37
2.3	48	46	44	42	39	37	35	33	31	29	27	25	24	22	20
	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26	31	35
2.4	50	48	46	43	41	39	37	35	33	31	29	27	25	24	22
	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29	33
2.5	52	50	48	45	43	41	39	37	35	33	31	29	27	25	23
	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26	31
2.6	54	52	50	47	45	43	41	39	37	35	33	31	29	27	25
	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	29
2.7	56	54	52	49	47	45	43	41	38	36	34	32	31	29	27
	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22	26
2.8	58	56	53	51	49	47	45	42	40	38	36	34	32	30	29
	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24
2.9	60	58	55	53	51	49	46	44	42	40	38	36	34	32	30
	-35	-31	-26	-22	-18	-14	-10	-6	-2	2	6	10	14	18	22
3.0	62	60	57	55	53	51	48	46	44	42	40	38	36	34	32
	-37	-33	-29	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20

Sediment storage needs may be estimated using the following table after the average annual soil loss in tons per acre has been determined for the terrace interval. Where large areas of the terrace interval will be disturbed during construction, additional sediment storage may be added to allow for the high first year accumulation.

**Table 9. Estimating Storage Required for Sediment.**

Soil Loss Tons per Acre per Year	Estimated 10-Year Sediment Accumulation in Ac-Ft per Acre of Drainage Area
1	.004
2	.009
3	.013
4	.017
5	.021
7	.030
10	.043
12	.053
15	.064
18	.077

NOTE: Sediment storage should be included in the terrace design unless provisions have been made to maintain terrace capacity through maintenance.

**TOPSOILING CRITERIA  
FOR  
TERRACE CONSTRUCTION**

Terraces are used to reduce erosion, manage water, and prevent loss of topsoil. During construction of terraces, it is desirable to salvage topsoil and respread it over the disturbed areas to maintain the soil's texture and productivity.

The following soils lists establish criteria for topsoiling terraces. Only those soils where terraces are normally constructed in Missouri are included (Major Land Resource Areas 107, 108, 109, 112, 113 and 115). These soils are more likely in need of topsoiling; however, an onsite evaluation of specific field conditions is required to determine if an adequate depth of topsoil is present to require topsoiling (i.e., topsoiling of severely eroded areas cannot be accomplished if the topsoil has already been lost).

**Topsoiling Required:** The soils listed below have at least 25% more clay in the subsoil immediately below the surface layer, more than 40% clay in the subsoil, and are greater than 5% slope. Topsoiling on these soils is required during construction of terraces.\*

Adair	Gosport	Lamoni	Sylvania
Armstrong	Keswick	Leonard	Weller
Belinda	Ladoga	Leslie	Winnegan
Clarinda	Lagonda	Mystic	

\*Topsoiling will not be used unless 6 inches of topsoil is present before terrace construction begins. If topsoil depths are great enough that at least 6 inches will remain after terrace construction, then salvage and respreading of topsoil is not necessary. Topsoiling normally will be applied throughout the entire terrace length. Not all terraces in a field may need topsoiling.

**Topsoiling Recommended:** The soils listed below have at least 20% more clay in the subsoil immediately below the surface layer. Topsoiling on these soils during terrace construction is optional.\*

Armster	Goss	Kilwinning	Smileyville
Brazilton	Greenton	Lindley	Sturges
Caleb	Grundy	Macksburg	Woodson
Calwoods	Herrick	Maplegrove	
Chilhowie	Holstein	McGirk	
Gorin	Kenoma	Mexico	

\*Topsoiling will not be used unless 6 inches of topsoil is present before terrace construction begins. If topsoil depths are great enough that at least 6 inches will remain after terrace construction, then salvage and respreading of topsoil is not necessary. Topsoiling normally will be applied throughout the entire terrace length. Not all terraces in a field may need topsoiling.