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## Corporate Office

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# GUIDE TO SOIL STABILIZATION APPLICATION

### INTRODUCTION

For your convenience, Chemical Lime Company has developed these tables to calculate the rate of lime application for soil stabilization. Refer to this handy guide to help determine the amount of lime necessary to stabilize your soil.

Care was taken to make these tables accurate and complete. However, if you need assistance interpreting them, please contact us. Always consult your geotechnical engineer before proceeding.

### HOW TO USE DATA

1. Locate the table that most closely matches your soil density. (ie. 95 lbs/ft<sup>3</sup>.)
2. Read across the top of the table to find the percent of lime (by weight) needed to stabilize your soil, based on your soil test.
3. Read down the table until you locate the desired depth of stabilization. This value is the weight of lime (in pounds) needed per square yard of soil.
4. To determine the total amount of lime required for the job, simply multiply the weight (determined in #3) by the area in square yards.

## SOIL STABILIZATION TABLE

DEPTH (INCHES)	PERCENTAGE LIME REQUIRED (BY WEIGHT)									
	1	2	3	4	5	6	7	8	9	10
6	4.3	8.6	12.8	17.1	21.4	25.7	29.9	34.2	38.5	42.8
7	5.0	10.0	15.0	20.0	24.9	29.9	34.9	39.9	44.9	49.9
8	5.7	11.4	17.1	22.8	28.5	34.2	39.9	45.6	51.3	57.0
9	6.4	12.8	19.2	25.7	32.1	38.5	44.9	51.3	57.7	64.1
10	7.1	14.3	21.4	28.5	35.6	42.8	49.9	57.0	64.1	71.3
15	10.7	21.4	32.1	42.8	53.4	64.1	74.8	85.5	96.2	106.9
24	17.1	34.2	51.3	68.4	85.5	102.6	119.7	136.8	153.9	171.0

POUNDS OF LIME APPLIED PER SQUARE YARD

SOIL DENSITY

**95** lbs./ft.<sup>3</sup>

# SOIL STABILIZATION TABLE

## PERCENTAGE LIME REQUIRED (BY WEIGHT)

DEPTH (INCHES)	1	2	3	4	5	6	7	8	9	10
6	4.5	9.0	13.5	18.0	22.5	27.0	31.5	36.0	40.5	45.0
7	5.3	10.5	15.8	21.0	26.3	31.5	36.8	42.0	47.3	52.5
8	6.0	12.0	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
9	6.8	13.0	20.3	27.0	33.8	40.5	47.3	54.0	60.8	67.5
10	7.5	15.0	22.5	30.0	37.5	45.0	52.5	60.0	67.5	75.0
15	11.3	22.5	33.8	45.0	56.3	67.5	78.8	90.0	101.3	112.5
24	18.0	36.0	54.0	72.0	90.0	108.0	126.0	144.0	162.0	180.0

SOIL DENSITY

**100** lbs./ft.<sup>3</sup>

## POUNDS OF LIME APPLIED PER SQUARE YARD

## PERCENTAGE LIME REQUIRED (BY WEIGHT)

DEPTH (INCHES)	1	2	3	4	5	6	7	8	9	10
6	4.7	9.5	14.2	18.9	23.6	28.4	33.1	37.8	42.5	47.3
7	5.5	11.0	16.5	22.1	27.6	33.1	38.6	44.1	49.6	55.1
8	6.3	12.6	18.9	25.2	31.5	37.8	44.1	50.4	56.7	63.0
9	7.1	14.2	21.3	28.4	35.4	42.5	49.6	56.7	63.8	70.9
10	7.9	15.8	23.6	31.5	39.4	47.3	55.1	63.0	70.9	78.8
15	11.8	23.6	35.4	47.3	59.1	70.9	82.7	94.5	106.3	118.1
24	18.9	37.8	56.7	75.6	94.5	113.4	132.3	151.2	170.1	189.0

SOIL DENSITY

**105** lbs./ft.<sup>3</sup>

## POUNDS OF LIME APPLIED PER SQUARE YARD

## PERCENTAGE LIME REQUIRED (BY WEIGHT)

DEPTH (INCHES)	1	2	3	4	5	6	7	8	9	10
6	5.0	9.9	14.9	19.8	24.8	29.7	34.7	39.6	44.5	49.5
7	5.8	11.6	17.3	23.1	28.9	34.7	40.4	46.2	52.0	57.5
8	6.0	13.2	19.8	26.4	33.0	39.6	46.2	52.8	59.4	66.0
9	7.4	14.9	22.3	29.7	37.1	44.5	52.8	59.4	66.8	74.3
10	8.3	16.5	24.8	33.0	41.3	49.5	57.8	66.0	74.3	82.5
15	12.4	24.8	37.1	49.5	61.9	74.3	86.6	99.0	111.4	123.8
24	19.8	39.6	59.4	79.2	99.0	118.8	138.6	158.4	178.2	198.0

SOIL DENSITY

**110** lbs./ft.<sup>3</sup>

## POUNDS OF LIME APPLIED PER SQUARE YARD

## PERCENTAGE LIME REQUIRED (BY WEIGHT)

DEPTH (INCHES)	1	2	3	4	5	6	7	8	9	10
6	5.2	10.3	15.5	20.7	25.9	31.1	36.2	41.4	46.6	51.8
7	6.0	12.1	24.2	24.1	30.2	36.2	42.3	48.3	54.3	60.4
8	6.9	13.8	20.7	27.6	34.5	41.4	48.3	55.2	62.1	69.0
9	7.8	15.5	23.3	31.1	38.8	46.6	54.3	62.1	69.9	77.6
10	8.6	17.3	25.9	34.5	43.1	51.8	60.4	69.0	77.6	86.3
15	12.9	25.9	38.8	51.8	64.7	77.6	90.6	103.5	116.4	129.4
24	20.7	41.4	62.1	82.8	103.5	124.2	144.9	165.6	186.3	207.0

SOIL DENSITY

**115** lbs./ft.<sup>3</sup>

## POUNDS OF LIME APPLIED PER SQUARE YARD

## PERCENTAGE LIME REQUIRED (BY WEIGHT)

DEPTH (INCHES)	1	2	3	4	5	6	7	8	9	10
6	5.4	10.8	16.2	21.6	27.0	32.4	37.8	43.2	48.6	54.0
7	6.3	12.6	18.9	25.2	31.5	37.8	44.1	50.4	56.7	63.0
8	7.2	14.4	21.6	28.8	36.0	43.2	50.4	57.6	64.8	72.0
9	8.1	16.2	24.3	32.4	40.5	48.6	56.7	64.8	72.9	81.0
10	9.0	18.1	27.0	36.0	45.0	54.0	63.0	72.0	81.0	90.0
15	13.5	27.0	40.5	54.0	67.5	81.0	94.5	108.0	121.5	135.0
24	21.5	43.2	64.8	86.4	108.0	129.6	151.2	172.8	194.4	216.0

SOIL DENSITY

**120** lbs./ft.<sup>3</sup>

## POUNDS OF LIME APPLIED PER SQUARE YARD