

CHART FOR CALCULATING
 POUNDS LIME REQUIRED PER LINEAR FOOT ROADWAY

Width of Treated Layer (FT)	STANDARD DENSITIES – AASHO T-99										
	90	92	94	96	98	100	102	104	106	108	110
30	13.50	13.80	14.10	14.40	14.70	15.00	15.30	15.60	15.90	16.20	16.50
32	14.40	14.72	15.04	15.36	15.68	16.00	16.32	16.64	16.96	17.28	17.60
34	15.30	15.64	15.98	16.32	16.66	17.00	17.34	17.68	18.02	18.36	18.70
36	16.20	16.56	16.92	17.28	17.64	18.00	18.36	18.72	19.08	19.44	19.80
38	17.10	17.48	17.86	18.24	18.62	19.00	19.38	19.76	20.14	20.52	20.90
40	18.00	18.40	18.80	19.20	19.60	20.00	20.40	20.80	21.20	21.60	22.00
42	18.90	19.32	19.74	20.16	20.58	21.00	21.42	21.84	22.26	22.68	23.10
44	19.80	20.24	20.68	21.12	21.56	22.00	22.44	22.88	23.32	23.76	24.20
46	20.70	21.16	21.62	22.08	22.54	23.00	23.46	23.92	24.38	24.84	25.30
48	21.60	22.08	22.56	23.04	23.52	24.00	24.48	24.96	25.44	25.92	26.40
50	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50
52	23.40	23.92	24.44	24.96	25.48	26.00	26.52	27.04	27.56	28.08	28.60
54	24.30	24.84	25.38	25.92	26.46	27.00	27.54	28.08	28.62	29.16	29.70
56	25.20	25.76	26.32	26.88	27.44	28.00	28.56	29.12	29.68	30.24	30.80
58	26.10	26.68	27.26	27.84	28.42	29.00	29.58	30.16	30.74	31.32	31.90
60	27.00	27.60	28.20	28.80	29.40	30.00	30.60	31.20	31.80	32.40	33.00
62	27.90	28.52	29.14	29.76	30.38	31.00	31.62	32.24	32.86	33.48	34.10
64	28.80	29.44	30.08	30.72	31.36	32.00	32.64	33.28	33.92	34.56	35.20
66	29.70	30.36	31.02	31.68	32.34	33.00	33.66	34.32	34.98	35.64	36.30
68	30.60	31.28	31.96	32.64	33.32	34.00	34.68	35.36	36.04	36.72	37.40
70	31.50	32.20	32.90	33.60	34.30	35.00	35.70	36.40	37.10	37.80	38.50

NOTE: The above chart is based on 1% lime, 6" thickness and 1' of roadway length.
 Intermediate values may be found by interpolation.

To find quantities of lime other than 1%, multiply the above quantities by percent required. To find quantities for thicknesses other than 6'', divide the above quantities by 6 and multiply quotient by thickness required.

PROBLEM: To find linear feet of roadway a truck load of lime weighing 40,000 pounds will cover if treated layer width is 48', standard density is 103 pounds, and thickness is 6'' with 5% lime.

SOLUTION: Opposite 48' width and under standard density 102 find 24.48 and under standard density 104 find 24.96.

To interpolate: $24.96 - 24.48 = .48$ divided by 2 = $.24 + 24.48 = 24.72$ pounds

To find 5% lime: $24.72 \times 5\% = 123.60$ pounds per linear foot

To find linear feet truck will cover: $40,000$ divided by $123.60 = 323.5$ linear feet of roadway

PROBLEM: To find linear feet of roadway a truck load of lime weighing 32,500 pounds will cover if treated layer width is 57', standard density is 98 pounds, layer thickness is 8'' with 7% lime.

SOLUTION: Under standard density 98 and opposite layer width 56' find 27.44 and opposite 58' find 28.42.

To interpolate: $28.42 - 27.44 = .98$ divided by 2 = $.49 + 27.44 = 27.93$ pounds

To find 7% lime: $27.93 \times 7\% = 195.51$ pounds per linear foot

To find quantity for 8'' layer: 195.51 divided by 6 = $32.59 \times 8'' = 260.72$ pounds per linear foot

To find linear feet truck will cover: $32,500$ pounds divided by $260.72 = 124.7$ linear feet of roadway