

FIGURING ENV FOR ONE YEAR CONVERSION RATES –

The effective neutralizing value (ENV) of a limestone product is determined by multiplying the Calcium Carbonate Equivalent (CCE) by the total fineness efficiency value (TFEV).

PARTICLE SIZE INTERVAL ANALYSIS –

Step 1

Passing #8 **84** Passing #30 **36.8** Passing #60 **21.7**

WEIGHT PERCENT –

Step 2 (multiply by .01)

#8 **.840** #30 **.368** #60 **.217**

Step 3

1.0 - **.840** (#8 figure for larger particle size) = **.16**

ONE YEAR CONVERSION CONSTANTS*

*The four bold constants are always used when figuring 1 year conversion rates

Step 4

.16	X 5 =	.80
.840 - .368 = .472	X 20 =	9.44
.368 - .217 = .151	X 50 =	7.55
.217	X 100 =	21.70
		39.49 = TFEV

Step 5

TFEV 39.49 x CCE .9295 = 36.71 (product)

ONE YEAR APPLICATION RATE

Step 6

Always divide the (product) of step 5 into 46.35

46.35 divided by 36.71 = 1.26

Step 7

1.26 x (ton per acre recommendation in YOUR soil analysis) = ton per acre of **AG LIME** to apply

For more information, see "A Guide to selecting Agricultural Limestone Products", by Jonathan H. Goodwin. Illinois Mineral Note 73, November, 1973. Illinois State Geological Survey and, Illinois Agronomy Handbook 1995-96 Circular 1333, Cooperative Extension Service, U of I. Or, you may contact your County Extension Advisor.