

Base Lime Rates for Commercial Production

Sikora or SMP Buffer Method

Instructions for use:

1. Rates in the tables were calculated and rounded to the nearest 0.25 ton/ac using the equations presented in *A Comparison of Methods to Determine Lime Requirement* (available at <http://www.udel.edu/0013612>). **Note: The Sikora and SMP buffer methods were designed for soils with higher pH buffering capacity and may result in over-liming when used to make lime recommendations on sandy, low organic matter soils with a lower pH buffering capacity.**
2. Rates are for agricultural grade limestone with an estimated effective calcium carbonate content (ECCC) of 67%.
3. Base lime rates are given in 0.25-ton increments starting from 0.5 ton/acre. To convert values to lb/1000 ft², multiple values by 50. Example: A rate of 1 ton/ac of lime is equivalent to 50 lb/1000 ft²
4. Base lime rates should be adjusted if using materials other liming materials with a different ECCC are used. Refer to *Liming Materials and Management* (available at <http://www.udel.edu/0013552>) for information about how to calculate ECCC of liming materials.
5. Base lime rates should be adjusted for lime applications that occurred within 18 months of soil sample collection. Refer to *Measurement and Management of Soil pH for Crop Production in Delaware* (available at <http://www.udel.edu/0013466>) for information about how to adjust lime rates to account for previous lime recommendations.
6. The maximum single application rate of agricultural lime to soils should not exceed 4 tons/ac when incorporating lime with tillage or 2 ton/ac if surface applying; make split applications above this rate.

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Commercial production liming table for **target pH 5.2** based on the 1:1 water soil pH and Sikora or SMP buffer tests. Rate in tons/ac based on neutralization of pH to a depth of **6 inches** using **agricultural grade limestone with 67% ECCC**.

Water pH	Sikora Buffer pH														
	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
4.9	0.50	0.50	0.50	0.75	0.75	1.00	1.00	1.25	1.25	1.50	1.75	1.75	2.00	2.25	2.50
4.8	0.50	0.75	0.75	1.00	1.00	1.25	1.25	1.50	1.75	1.75	2.00	2.25	2.50	2.75	3.00
4.7	0.75	0.75	1.00	1.00	1.25	1.50	1.50	1.75	2.00	2.25	2.25	2.50	2.75	3.00	3.50
4.6	0.75	1.00	1.00	1.25	1.50	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75
4.5	1.00	1.00	1.25	1.50	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00

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Commercial production liming table for target **pH 5.6** based on the 1:1 water soil pH and Sikora or SMP buffer tests. Rate in tons/ac based on neutralization of pH to a depth of **6 inches** using **agricultural grade limestone with 67% ECCC**.

WaterH	Sikora Buffer pH														
	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
5.3	0.50	0.75	0.75	0.75	1.00	1.25	1.25	1.50	1.75	1.75	2.00	2.25	2.50	3.00	3.25
5.2	0.75	0.75	1.00	1.00	1.25	1.50	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50	3.75
5.1	0.75	1.00	1.00	1.25	1.50	1.75	1.75	2.00	2.25	2.50	2.75	3.25	3.50	3.75	4.25
5.0	1.00	1.00	1.25	1.50	1.75	2.00	2.00	2.25	2.50	3.00	3.25	3.50	3.75	4.25	4.50
4.9	1.00	1.25	1.50	1.50	1.75	2.00	2.25	2.50	2.75	3.25	3.50	3.75	4.00	4.50	4.75
4.8	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.75	4.00	4.25	4.75	5.00
4.7	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	4.00	4.25	4.50	5.00	5.25
4.6	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50	3.75	4.00	4.50	4.75	5.00	5.50
4.5	1.50	1.50	1.75	2.25	2.50	2.75	3.00	3.25	3.50	4.00	4.25	4.50	4.75	5.25	5.50

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Commercial production liming table for target **pH 6.0** based on the 1:1 water soil pH and Sikora or SMP buffer tests. Rate in tons/ac based on neutralization of pH to a depth of **6 inches** using **agricultural grade limestone with 67% ECCC**.

WaterH	Sikora Buffer pH														
	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
5.7	0.75	0.75	1.00	1.00	1.25	1.50	1.75	1.75	2.25	2.50	2.75	3.25	3.50	4.00	4.75
5.6	0.75	1.00	1.25	1.25	1.50	1.75	2.00	2.25	2.50	3.00	3.25	3.75	4.25	4.75	5.25
5.5	1.00	1.25	1.25	1.50	1.75	2.00	2.25	2.50	3.00	3.25	3.75	4.00	4.50	5.00	5.50
5.4	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.25	3.50	4.00	4.25	4.75	5.25	5.75
5.3	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50	3.75	4.25	4.50	5.00	5.50	6.00
5.2	1.25	1.50	1.75	2.00	2.25	2.75	3.00	3.25	3.75	4.00	4.50	4.75	5.25	5.50	6.00
5.1	1.50	1.75	2.00	2.25	2.50	2.75	3.25	3.50	3.75	4.25	4.50	5.00	5.25	5.75	6.00
5.0	1.50	1.75	2.00	2.25	2.75	3.00	3.25	3.75	4.00	4.25	4.75	5.00	5.50	5.75	6.25
4.9	1.50	1.75	2.25	2.50	2.75	3.00	3.50	3.75	4.25	4.50	4.75	5.25	5.50	6.00	6.25
4.8	1.75	2.00	2.25	2.50	2.75	3.25	3.50	4.00	4.25	4.50	5.00	5.25	5.75	6.00	6.25
4.7	1.75	2.00	2.25	2.75	3.00	3.25	3.75	4.00	4.25	4.75	5.00	5.50	5.75	6.00	6.25
4.6	1.75	2.00	2.50	2.75	3.00	3.50	3.75	4.00	4.50	4.75	5.25	5.50	5.75	6.00	6.25
4.5	1.75	2.25	2.50	2.75	3.25	3.50	3.75	4.25	4.50	5.00	5.25	5.50	5.75	6.25	6.50

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Commercial production liming table for target **pH 6.2** based on the 1:1 water soil pH and Sikora or SMP buffer tests. Rate in tons/ac based on neutralization of pH to a depth of **6 inches** using **agricultural grade limestone with 67% ECCC**.

WaterH	Sikora Buffer pH														
	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
5.9	0.75	0.75	1.00	1.25	1.50	1.50	1.75	2.25	2.50	3.00	3.25	3.75	4.50	5.25	6.00
5.8	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	3.00	3.25	3.75	4.25	5.00	5.50	6.25
5.7	1.00	1.25	1.50	1.75	2.00	2.25	2.50	3.00	3.25	3.75	4.25	4.75	5.25	5.75	6.25
5.6	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.25	3.50	4.00	4.50	5.00	5.50	6.00	6.25
5.5	1.25	1.50	1.75	2.00	2.50	2.75	3.00	3.50	3.75	4.25	4.75	5.25	5.50	6.00	6.50
5.4	1.50	1.75	2.00	2.25	2.50	3.00	3.25	3.50	4.00	4.50	4.75	5.25	5.75	6.25	6.50
5.3	1.50	1.75	2.00	2.50	2.75	3.00	3.50	3.75	4.25	4.50	5.00	5.50	5.75	6.25	6.50
5.2	1.50	2.00	2.25	2.50	2.75	3.25	3.50	4.00	4.25	4.75	5.25	5.50	6.00	6.25	6.50
5.1	1.75	2.00	2.25	2.50	3.00	3.25	3.75	4.00	4.50	4.75	5.25	5.50	6.00	6.25	6.50
5.0	1.75	2.00	2.50	2.75	3.00	3.50	3.75	4.25	4.50	5.00	5.25	5.75	6.00	6.25	6.50
4.9	1.75	2.25	2.50	2.75	3.25	3.50	4.00	4.25	4.75	5.00	5.50	5.75	6.00	6.25	6.50
4.8	2.00	2.25	2.50	3.00	3.25	3.50	4.00	4.25	4.75	5.00	5.50	5.75	6.00	6.50	6.50
4.7	2.00	2.25	2.50	3.00	3.25	3.75	4.00	4.50	4.75	5.25	5.50	5.75	6.25	6.50	6.50
4.6	2.00	2.25	2.75	3.00	3.50	3.75	4.25	4.50	4.75	5.25	5.50	6.00	6.25	6.50	6.50
4.5	2.00	2.50	2.75	3.00	3.50	3.75	4.25	4.50	5.00	5.25	5.50	6.00	6.25	6.50	6.50

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Commercial production liming table for target **pH 6.5** based on the 1:1 water soil pH and Sikora or SMP buffer tests. Rate in tons/ac based on neutralization of pH to a depth of **6 inches** using **agricultural grade limestone with 67% ECCC**.

WaterH	Sikora Buffer pH														
	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
6.2	0.75	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50	4.00					
6.1	1.00	1.25	1.50	1.75	2.00	2.50	2.75	3.25	3.75	4.50	5.25				
6.0	1.25	1.50	1.75	2.00	2.50	2.75	3.25	3.75	4.25	4.75	5.25	6.00			
5.9	1.25	1.75	2.00	2.25	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50		
5.8	1.50	1.75	2.00	2.50	2.75	3.25	3.75	4.00	4.50	5.00	5.75	6.00	6.50	6.75	
5.7	1.50	2.00	2.25	2.50	3.00	3.50	3.75	4.25	4.75	5.25	5.75	6.25	6.50	6.75	6.25
5.6	1.75	2.00	2.50	2.75	3.25	3.50	4.00	4.50	4.75	5.25	5.75	6.25	6.50	6.75	6.50
5.5	1.75	2.25	2.50	2.75	3.25	3.75	4.00	4.50	5.00	5.50	5.75	6.25	6.50	6.75	6.50
5.4	2.00	2.25	2.50	3.00	3.25	3.75	4.25	4.50	5.00	5.50	6.00	6.25	6.50	6.75	6.50
5.3	2.00	2.25	2.75	3.00	3.50	3.75	4.25	4.75	5.25	5.50	6.00	6.25	6.50	6.75	6.50
5.2	2.00	2.50	2.75	3.25	3.50	4.00	4.25	4.75	5.25	5.50	6.00	6.25	6.50	6.75	6.50
5.1	2.00	2.50	2.75	3.25	3.50	4.00	4.50	4.75	5.25	5.75	6.00	6.25	6.50	6.75	6.50
5.0	2.25	2.50	3.00	3.25	3.75	4.00	4.50	5.00	5.25	5.75	6.00	6.25	6.50	6.75	6.50
4.9	2.25	2.50	3.00	3.25	3.75	4.25	4.50	5.00	5.25	5.75	6.00	6.25	6.50	6.75	6.50
4.8	2.25	2.75	3.00	3.50	3.75	4.25	4.50	5.00	5.25	5.75	6.00	6.25	6.50	6.75	6.75
4.7	2.25	2.75	3.00	3.50	3.75	4.25	4.75	5.00	5.50	5.75	6.00	6.25	6.50	6.75	6.75
4.6	2.25	2.75	3.00	3.50	4.00	4.25	4.75	5.00	5.50	5.75	6.00	6.25	6.50	6.75	6.75
4.5	2.25	2.75	3.25	3.50	4.00	4.25	4.75	5.00	5.50	5.75	6.00	6.25	6.50	6.75	6.75

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Commercial production liming table for target **pH 6.8** based on the 1:1 water soil pH and Sikora or SMP buffer tests. Rate in tons/ac based on neutralization of pH to a depth of **6 inches** using **agricultural grade limestone with 67% ECCC**.

WaterH	Sikora Buffer pH														
	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
6.5	1.00	1.25	1.50	2.00	2.50	3.00	3.50								
6.4	1.25	1.50	2.00	2.25	2.75	3.25	4.00	4.50							
6.3	1.50	1.75	2.25	2.50	3.00	3.50	4.25	4.75	5.50						
6.2	1.75	2.00	2.25	2.75	3.25	3.75	4.25	5.00	5.50	6.25					
6.1	1.75	2.25	2.50	3.00	3.50	4.00	4.50	5.00	5.75	6.25	6.75				
6.0	2.00	2.25	2.75	3.00	3.50	4.00	4.50	5.25	5.75	6.25	6.75	6.75			
5.9	2.00	2.25	2.75	3.25	3.75	4.25	4.75	5.25	5.75	6.25	6.50	6.75	6.75		
5.8	2.00	2.50	3.00	3.25	3.75	4.25	4.75	5.25	5.75	6.25	6.50	6.75	6.25	7.75	
5.7	2.25	2.50	3.00	3.50	3.75	4.25	4.75	5.25	5.75	6.25	6.50	6.75	6.50	7.25	8.75
5.6	2.25	2.75	3.00	3.50	4.00	4.50	5.00	5.25	5.75	6.25	6.50	6.75	6.50	7.00	8.25
5.5	2.25	2.75	3.00	3.50	4.00	4.50	5.00	5.50	5.75	6.25	6.50	6.75	6.50	6.75	7.75
5.4	2.25	2.75	3.25	3.50	4.00	4.50	5.00	5.50	5.75	6.25	6.50	6.75	6.50	6.50	7.50
5.3	2.50	2.75	3.25	3.75	4.00	4.50	5.00	5.50	5.75	6.25	6.50	6.75	6.50	6.50	7.25
5.2	2.50	2.75	3.25	3.75	4.25	4.50	5.00	5.50	5.75	6.25	6.50	6.75	6.75	6.50	7.25
5.1	2.50	3.00	3.25	3.75	4.25	4.75	5.00	5.50	5.75	6.25	6.50	6.75	6.75	6.50	7.00
5.0	2.50	3.00	3.50	3.75	4.25	4.75	5.00	5.50	5.75	6.25	6.50	6.50	6.75	6.50	6.75
4.9	2.50	3.00	3.50	3.75	4.25	4.75	5.00	5.50	6.00	6.25	6.50	6.50	6.75	6.50	6.75
4.8	2.50	3.00	3.50	4.00	4.25	4.75	5.25	5.50	6.00	6.25	6.50	6.50	6.75	6.50	6.50
4.7	2.75	3.00	3.50	4.00	4.25	4.75	5.25	5.50	6.00	6.25	6.50	6.50	6.75	6.50	6.25
4.6	2.75	3.00	3.50	4.00	4.25	4.75	5.25	5.50	6.00	6.25	6.50	6.50	6.75	6.50	6.50
4.5	2.75	3.00	3.50	4.00	4.50	4.75	5.25	5.50	6.00	6.25	6.50	6.50	6.75	6.50	6.25

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Commercial production liming table for **target pH 5.2** based on the 1:1 water soil pH and Sikora or SMP buffer tests. Rate in tons/ac based on neutralization of pH to a depth of **8 inches** using **agricultural grade limestone with 67% ECCC**.

WaterH	Sikora Buffer pH														
	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
4.9	0.50	0.75	0.75	1.00	1.00	1.25	1.50	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25
4.8	0.75	1.00	1.00	1.25	1.50	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	4.00
4.7	1.00	1.00	1.25	1.50	1.75	1.75	2.00	2.25	2.50	2.75	3.25	3.50	3.75	4.00	4.50
4.6	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.25	4.50	5.00
4.5	1.25	1.50	1.75	1.75	2.00	2.25	2.75	3.00	3.25	3.50	3.75	4.25	4.50	5.00	5.25

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Commercial production liming table for target **pH 5.6** based on the 1:1 water soil pH and Sikora or SMP buffer tests. Rate in tons/ac based on neutralization of pH to a depth of **8 inches** using **agricultural grade limestone with 67% ECCC**.

WaterH	Sikora Buffer pH														
	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
5.3	0.75	0.75	1.00	1.25	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50	3.75	4.25
5.2	1.00	1.00	1.25	1.50	1.75	1.75	2.00	2.50	2.75	3.00	3.25	3.75	4.00	4.50	5.00
5.1	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50	3.75	4.25	4.75	5.00	5.50
5.0	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50	3.75	4.25	4.75	5.00	5.50	6.00
4.9	1.25	1.50	1.75	2.25	2.50	2.75	3.00	3.50	3.75	4.25	4.50	5.00	5.50	6.00	6.50
4.8	1.50	1.75	2.00	2.25	2.75	3.00	3.25	3.75	4.00	4.50	5.00	5.25	5.75	6.25	6.75
4.7	1.50	2.00	2.25	2.50	2.75	3.25	3.50	4.00	4.25	4.75	5.25	5.50	6.00	6.50	7.00
4.6	1.75	2.00	2.25	2.75	3.00	3.50	3.75	4.25	4.50	5.00	5.50	5.75	6.25	6.75	7.25
4.5	1.75	2.25	2.50	2.75	3.25	3.50	4.00	4.25	4.75	5.25	5.50	6.00	6.50	7.00	7.25

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Commercial production liming table for target **pH 6.0** based on the 1:1 water soil pH and Sikora or SMP buffer tests. Rate in tons/ac based on neutralization of pH to a depth of **8 inches** using **agricultural grade limestone with 67% ECCC**.

WaterH	Sikora Buffer pH														
	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
5.7	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.25	3.75	4.25	4.75	5.50	6.25
5.6	1.00	1.25	1.50	1.75	2.00	2.25	2.75	3.00	3.50	3.75	4.25	5.00	5.50	6.25	7.00
5.5	1.25	1.50	1.75	2.00	2.25	2.75	3.00	3.50	3.75	4.25	4.75	5.50	6.00	6.75	7.25
5.4	1.50	1.75	2.00	2.25	2.75	3.00	3.50	3.75	4.25	4.75	5.25	5.75	6.50	7.00	7.50
5.3	1.50	2.00	2.25	2.50	3.00	3.25	3.75	4.00	4.50	5.00	5.50	6.25	6.75	7.25	7.75
5.2	1.75	2.00	2.50	2.75	3.25	3.50	4.00	4.50	4.75	5.25	5.75	6.50	7.00	7.50	8.00
5.1	1.75	2.25	2.50	3.00	3.25	3.75	4.25	4.75	5.00	5.50	6.00	6.50	7.25	7.75	8.00
5.0	2.00	2.25	2.75	3.00	3.50	4.00	4.25	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.25
4.9	2.00	2.50	2.75	3.25	3.75	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.25
4.8	2.25	2.50	3.00	3.50	3.75	4.25	4.75	5.25	5.75	6.25	6.50	7.00	7.50	8.00	8.25
4.7	2.25	2.75	3.00	3.50	4.00	4.50	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.00	8.50
4.6	2.25	2.75	3.25	3.75	4.00	4.50	5.00	5.50	6.00	6.50	6.75	7.25	7.75	8.00	8.50
4.5	2.50	2.75	3.25	3.75	4.25	4.75	5.00	5.50	6.00	6.50	7.00	7.50	7.75	8.25	8.50

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Commercial production liming table for target **pH 6.2** based on the 1:1 water soil pH and Sikora or SMP buffer tests. Rate in tons/ac based on neutralization of pH to a depth of **8 inches** using **agricultural grade limestone with 67% ECCC**.

WaterH	Sikora Buffer pH														
	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
5.9	1.00	1.25	1.25	1.50	1.75	2.25	2.50	3.00	3.25	3.75	4.50	5.00	6.00	6.75	7.75
5.8	1.25	1.50	1.75	2.00	2.25	2.50	3.00	3.50	4.00	4.50	5.00	5.75	6.50	7.25	8.25
5.7	1.25	1.75	2.00	2.25	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.25	7.00	7.75	8.25
5.6	1.50	1.75	2.25	2.50	3.00	3.25	3.75	4.25	4.75	5.25	6.00	6.50	7.25	8.00	8.50
5.5	1.75	2.00	2.50	2.75	3.25	3.50	4.00	4.50	5.00	5.75	6.25	6.75	7.50	8.00	8.50
5.4	1.75	2.25	2.50	3.00	3.50	3.75	4.25	4.75	5.25	6.00	6.50	7.00	7.50	8.25	8.50
5.3	2.00	2.25	2.75	3.25	3.50	4.00	4.50	5.00	5.50	6.00	6.75	7.25	7.75	8.25	8.75
5.2	2.00	2.50	3.00	3.25	3.75	4.25	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.25	8.75
5.1	2.25	2.75	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.25	8.75
5.0	2.25	2.75	3.25	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	8.75
4.9	2.50	2.75	3.25	3.75	4.25	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.00	8.50	8.75
4.8	2.50	3.00	3.50	3.75	4.25	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.25	8.50	8.75
4.7	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	6.75	7.25	7.75	8.25	8.50	8.75
4.6	2.75	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	7.75	8.25	8.50	8.75
4.5	2.75	3.25	3.75	4.25	4.50	5.00	5.50	6.00	6.50	7.00	7.50	7.75	8.25	8.50	8.75

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Commercial production liming table for target **pH 6.5** based on the 1:1 water soil pH and Sikora or SMP buffer tests. Rate in tons/ac based on neutralization of pH to a depth of **8 inches** using **agricultural grade limestone with 67% ECCC**.

WaterH	Sikora Buffer pH														
	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
6.2	1.00	1.25	1.75	2.00	2.25	2.75	3.25	3.75	4.50	5.25					
6.1	1.50	1.75	2.00	2.50	2.75	3.25	3.75	4.50	5.00	6.00	6.75				
6.0	1.50	2.00	2.25	2.75	3.25	3.75	4.25	4.75	5.50	6.25	7.00	8.00			
5.9	1.75	2.25	2.50	3.00	3.50	4.00	4.50	5.25	5.75	6.50	7.25	8.00	8.75		
5.8	2.00	2.25	2.75	3.25	3.75	4.25	4.75	5.50	6.00	6.75	7.50	8.25	8.75	8.75	
5.7	2.25	2.50	3.00	3.50	4.00	4.50	5.00	5.75	6.25	7.00	7.50	8.25	8.75	8.75	8.50
5.6	2.25	2.75	3.25	3.75	4.25	4.75	5.25	5.75	6.50	7.00	7.75	8.25	8.75	8.75	8.50
5.5	2.50	2.75	3.25	3.75	4.25	4.75	5.50	6.00	6.50	7.25	7.75	8.25	8.75	8.75	8.75
5.4	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.25	6.75	7.25	7.75	8.25	8.75	8.75	8.75
5.3	2.50	3.00	3.50	4.00	4.50	5.25	5.75	6.25	6.75	7.25	8.00	8.25	8.75	8.75	8.75
5.2	2.75	3.25	3.75	4.25	4.75	5.25	5.75	6.25	7.00	7.50	8.00	8.25	8.75	8.75	8.75
5.1	2.75	3.25	3.75	4.25	4.75	5.25	6.00	6.50	7.00	7.50	8.00	8.50	8.75	8.75	8.75
5.0	2.75	3.25	3.75	4.25	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	8.75	8.75	8.75
4.9	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	8.75	8.75	8.75
4.8	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.75	7.25	7.50	8.00	8.50	8.75	8.75	8.75
4.7	3.00	3.50	4.00	4.50	5.25	5.75	6.25	6.75	7.25	7.75	8.00	8.50	8.75	8.75	8.75
4.6	3.00	3.50	4.25	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.00	8.50	8.75	8.75	8.75
4.5	3.25	3.75	4.25	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.00	8.50	8.75	8.75	8.75

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Commercial production liming table for target **pH 6.8** based on the 1:1 water soil pH and Sikora or SMP buffer tests. Rate in tons/ac based on neutralization of pH to a depth of **8 inches** using **agricultural grade limestone with 67% ECCC**.

WaterH	Sikora Buffer pH														
	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
6.5	1.50	1.75	2.25	2.50	3.25	3.75	4.75								
6.4	1.75	2.00	2.50	3.00	3.75	4.25	5.25	6.25							
6.3	2.00	2.50	3.00	3.50	4.00	4.75	5.50	6.50	7.25						
6.2	2.25	2.75	3.25	3.75	4.25	5.00	5.75	6.50	7.50	8.25					
6.1	2.25	2.75	3.25	4.00	4.50	5.25	6.00	6.75	7.50	8.25	8.75				
6.0	2.50	3.00	3.50	4.00	4.75	5.50	6.00	6.75	7.50	8.25	8.75	9.00			
5.9	2.75	3.25	3.75	4.25	5.00	5.50	6.25	7.00	7.75	8.25	8.75	8.75	8.75		
5.8	2.75	3.25	3.75	4.50	5.00	5.75	6.25	7.00	7.75	8.25	8.75	8.75	8.50	10.25	
5.7	2.75	3.50	4.00	4.50	5.25	5.75	6.50	7.00	7.75	8.25	8.75	8.75	8.50	9.75	11.75
5.6	3.00	3.50	4.00	4.75	5.25	5.75	6.50	7.25	7.75	8.25	8.75	8.75	8.75	9.25	11.00
5.5	3.00	3.50	4.25	4.75	5.25	6.00	6.50	7.25	7.75	8.25	8.75	8.75	8.75	9.00	10.50
5.4	3.00	3.75	4.25	4.75	5.50	6.00	6.50	7.25	7.75	8.25	8.75	8.75	8.75	8.75	10.00
5.3	3.25	3.75	4.25	5.00	5.50	6.00	6.75	7.25	7.75	8.25	8.50	8.75	8.75	8.50	9.75
5.2	3.25	3.75	4.50	5.00	5.50	6.25	6.75	7.25	7.75	8.25	8.50	8.75	8.75	8.50	9.50
5.1	3.25	3.75	4.50	5.00	5.50	6.25	6.75	7.25	7.75	8.25	8.50	8.75	8.75	8.50	9.25
5.0	3.25	4.00	4.50	5.00	5.75	6.25	6.75	7.25	7.75	8.25	8.50	8.75	8.75	8.75	9.00
4.9	3.50	4.00	4.50	5.00	5.75	6.25	6.75	7.25	7.75	8.25	8.50	8.75	8.75	8.75	9.00
4.8	3.50	4.00	4.50	5.25	5.75	6.25	6.75	7.25	7.75	8.25	8.50	8.75	8.75	8.75	8.75
4.7	3.50	4.00	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.25	8.50	8.75	8.75	8.75	8.25
4.6	3.50	4.00	4.75	5.25	5.75	6.25	7.00	7.50	7.75	8.25	8.50	8.75	8.75	8.75	8.50
4.5	3.50	4.25	4.75	5.25	5.75	6.50	7.00	7.50	7.75	8.25	8.50	8.75	8.75	8.75	8.50

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