

Table A. Lime Requirement to raise pH of the surface 8 inches of soil to a pH of 7.0

Soil pH	Lime Buffer Capacity ¹													
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
	lbs Ag lime per acre 8" to raise pH to 7.0													
6.4	1000	1500	2000	3000	3500	4500	5000	5500	6500	7000	8000	8500	9000	10000
6.3	1000	1500	2500	3500	4000	5000	6000	6500	7500	8500	9000	10000	10000	10000
6.2	1000	2000	3000	4000	5000	5500	6500	7500	8500	9500	10000	10000	10000	10000
6.1	1000	2000	3500	4500	5500	6500	7500	8500	9500	10000	10000	10000	10000	10000
6.0	1000	2500	3500	5000	6000	7000	8500	9500	10000	10000	10000	10000	10000	10000
5.9	1000	2500	4000	5500	6500	8000	9000	10000	10000	10000	10000	10000	10000	10000
5.8	1000	3000	4500	5500	7000	8500	10000	10000	10000	10000	10000	10000	10000	10000
5.7	1000	3000	4500	6000	7500	9000	10000	10000	10000	10000	10000	10000	10000	10000
5.6	1000	3000	5000	6500	8500	10000	10000	10000	10000	10000	10000	10000	10000	10000
5.5	1000	3500	5500	7000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000
5.4	1500	3500	5500	7500	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000
5.3	1500	4000	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
5.2	1500	4000	6500	8500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
5.1	1500	4500	7000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
5.0	1500	4500	7000	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.9	1500	4500	7500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.8	1500	5000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.7	2000	5000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.6	2000	5500	8500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.5	2000	5500	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.4	2000	6000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.3	2000	6000	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.2	2000	6500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.1	2000	6500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.0	2500	6500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000

¹ Pounds of pure calcium carbonate to raise soil pH one unit per 1,000,000 pounds of soil.

Table B. Lime Requirement to raise pH of the surface 8 inches of soil to a pH of 6.5

Soil pH	Lime Buffer Capacity ¹													
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
	lbs Ag lime per acre 8" to raise pH to 6.5													
6.2	1000	1000	1000	1500	2000	2000	2500	3000	3500	3500	4000	4500	4500	5000
6.1	1000	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	5500	6000	6500
6.0	1000	1000	2000	2500	3000	3500	4000	5000	5500	6000	6500	7000	7500	8500
5.9	1000	1500	2000	3000	3500	4500	5000	5500	6500	7000	8000	8500	9000	10000
5.8	1000	1500	2500	3500	4000	5000	6000	6500	7500	8500	9000	10000	10000	10000
5.7	1000	2000	3000	4000	5000	5500	6500	7500	8500	9500	10000	10000	10000	10000
5.6	1000	2000	3500	4500	5500	6500	7500	8500	9500	10000	10000	10000	10000	10000
5.5	1000	2500	3500	5000	6000	7000	8500	9500	10000	10000	10000	10000	10000	10000
5.4	1000	2500	4000	5500	6500	8000	9000	10000	10000	10000	10000	10000	10000	10000
5.3	1000	3000	4500	5500	7000	8500	10000	10000	10000	10000	10000	10000	10000	10000
5.2	1000	3000	4500	6000	7500	9000	10000	10000	10000	10000	10000	10000	10000	10000
5.1	1000	3000	5000	6500	8500	10000	10000	10000	10000	10000	10000	10000	10000	10000
5.0	1000	3500	5500	7000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.9	1500	3500	5500	7500	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.8	1500	4000	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.7	1500	4000	6500	8500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.6	1500	4500	7000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.5	1500	4500	7000	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.4	1500	4500	7500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.3	1500	5000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.2	2000	5000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.1	2000	5500	8500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.0	2000	5500	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000

¹ Pounds of pure calcium carbonate to raise soil pH one unit per 1,000,000 pounds of soil.

Table C. Lime Requirement to raise pH of the surface 8 inches of soil to a pH of 6.0

Soil pH	Lime Buffer Capacity ¹													
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
	lbs Ag lime per acre 8" to raise pH to 6.0													
5.9	1000	1000	1000	1000	1000	1000	1000	1000	1000	1500	1500	1500	1500	2000
5.8	1000	1000	1000	1000	1500	1500	2000	2000	2000	2500	2500	3000	3000	3500
5.7	1000	1000	1000	1500	2000	2000	2500	3000	3500	3500	4000	4500	4500	5000
5.6	1000	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	5500	6000	6500
5.5	1000	1000	2000	2500	3000	3500	4000	5000	5500	6000	6500	7000	7500	8500
5.4	1000	1500	2000	3000	3500	4500	5000	5500	6500	7000	8000	8500	9000	10000
5.3	1000	1500	2500	3500	4000	5000	6000	6500	7500	8500	9000	10000	10000	10000
5.2	1000	2000	3000	4000	5000	5500	6500	7500	8500	9500	10000	10000	10000	10000
5.1	1000	2000	3500	4500	5500	6500	7500	8500	9500	10000	10000	10000	10000	10000
5.0	1000	2500	3500	5000	6000	7000	8500	9500	10000	10000	10000	10000	10000	10000
4.9	1000	2500	4000	5500	6500	8000	9000	10000	10000	10000	10000	10000	10000	10000
4.8	1000	3000	4500	5500	7000	8500	10000	10000	10000	10000	10000	10000	10000	10000
4.7	1000	3000	4500	6000	7500	9000	10000	10000	10000	10000	10000	10000	10000	10000
4.6	1000	3000	5000	6500	8500	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.5	1000	3500	5500	7000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.4	1500	3500	5500	7500	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.3	1500	4000	6000	8000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.2	1500	4000	6500	8500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.1	1500	4500	7000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.0	1500	4500	7000	9500	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000

¹ Pounds of pure calcium carbonate to raise soil pH one unit per 1,000,000 pounds of soil.

Table D. Lime Requirement to raise pH of the surface 8 inches of soil to a pH of 5.5														
Soil pH	Lime Buffer Capacity ¹													
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
	lbs Ag lime per acre 8" to raise pH to 5.5													
5.4	1000	1000	1000	1000	1000	1000	1000	1000	1000	1500	1500	1500	1500	2000
5.3	1000	1000	1000	1000	1500	1500	2000	2000	2000	2500	2500	3000	3000	3500
5.2	1000	1000	1000	1500	2000	2000	2500	3000	3500	3500	4000	4500	4500	5000
5.1	1000	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	5500	6000	6500
5.0	1000	1000	2000	2500	3000	3500	4000	5000	5500	6000	6500	7000	7500	8500
4.9	1000	1500	2000	3000	3500	4500	5000	5500	6500	7000	8000	8500	9000	10000
4.8	1000	1500	2500	3500	4000	5000	6000	6500	7500	8500	9000	10000	10000	10000
4.7	1000	2000	3000	4000	5000	5500	6500	7500	8500	9500	10000	10000	10000	10000
4.6	1000	2000	3500	4500	5500	6500	7500	8500	9500	10000	10000	10000	10000	10000
4.5	1000	2500	3500	5000	6000	7000	8500	9500	10000	10000	10000	10000	10000	10000
4.4	1000	2500	4000	5500	6500	8000	9000	10000	10000	10000	10000	10000	10000	10000
4.3	1000	3000	4500	5500	7000	8500	10000	10000	10000	10000	10000	10000	10000	10000
4.2	1000	3000	4500	6000	7500	9000	10000	10000	10000	10000	10000	10000	10000	10000
4.1	1000	3000	5000	6500	8500	10000	10000	10000	10000	10000	10000	10000	10000	10000
4.0	1000	3500	5500	7000	9000	10000	10000	10000	10000	10000	10000	10000	10000	10000

¹ Pounds of pure calcium carbonate to raise soil pH one unit per 1,000,000 pounds of soil.