

Liquid Lime/Gypsum Application

Soil health impacts fruit quality. Consider calcium's benefits:



- Improves soil porosity and aeration
- Feeds the soil biology
- Allows for proper root growth
- Improves tissue growth and strengthens the cell wall
- Improves availability and uptake of other nutrients

OVS liquid lime application



The limestone is Micronia Ag H2O, 325 mesh particle size.

The gypsum is Diamond K product with 92% passing 325 mesh.



Compare the targeted application of OVS liquid lime to conventional dry lime application drifts.



Drift dangers of dry lime application
Photo courtesy of WSU Extension

Improving soil pH with MICRONA AG H2O SOLUTION GRADE

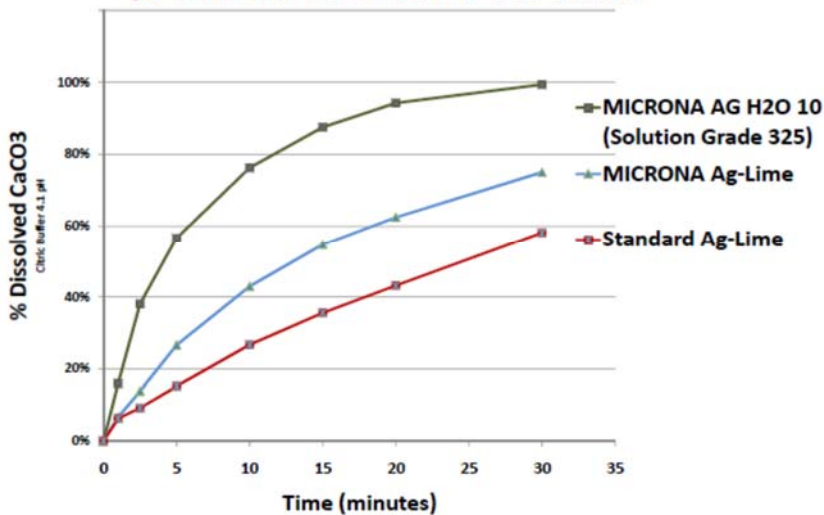
ESTIMATED APPLICATION (Solution Grade)

Correct applications are calculated according to soil type. Depending on material used, this would be in the range of 100 to 350 lbs per acre per year (2 inch profile depth). To overcome acidifying effects of nitrogen fertilizers, two (2) lbs of fine lime (MICRONA solution grade or granular) are needed for each (1) lbs of ammonium nitrate. Crop specific calcium needed for plant growth and subsequent removal from soil must also be considered. High crop yielding soils should not be allowed to drop below 6.2 soil pH as a minimum to ensure fertilizer effectiveness, maximum crop production potential and subsequent highest return of investment.

MICRONA AG H2O Solution Grade - In Pounds per Acre

Approximate lbs for each 0.1 increase in pH	60			100			125			150			200		
	Sand/Loamy Sands			Sandy/Silty Loam			Clay/Loamy Clays			Organic 10-25% OM			Peaty 25% OM		
	To 6	To 6.5	To 7.0	To 6	To 6.5	To 7.0	To 6	To 6.5	To 7.0	To 6	To 6.5	To 7.0	To 6	To 6.5	To 7.0
4.8	720	1020	1320	1200	1700	2200	1500	2125	2750	1800	2550	3300	2400	3400	4400
4.9	660	960	1260	1100	1600	2100	1375	2000	2625	1650	2400	3150	2200	3200	4200
5.0	600	900	1200	1000	1500	2000	1250	1875	2500	1500	2250	3000	2000	3000	4000
5.1	540	840	1140	900	1400	1900	1125	1750	2375	1350	2100	2850	1800	2800	3800
5.2	480	780	1080	800	1300	1800	1000	1625	2250	1200	1950	2700	1600	2600	3600
5.3	420	720	1020	700	1200	1700	875	1500	2125	1050	1800	2550	1400	2400	3400
5.4	360	660	960	600	1100	1600	750	1375	2000	900	1650	2400	1200	2200	3200
5.5	300	600	900	500	1000	1500	625	1250	1875	750	1500	2250	1000	2000	3000
5.6	240	540	840	400	900	1400	500	1125	1750	600	1350	2100	800	1800	2800
5.7	180	480	780	300	800	1300	375	1000	1625	450	1200	1950	600	1600	2600
5.8	120	420	720	200	700	1200	250	875	1500	300	1050	1800	400	1400	2400
5.9	60	360	660	100	600	1100	125	750	1375	150	900	1650	200	1200	2200
6.0	-----	300	600	-----	500	1000	-----	625	1250	-----	750	1500	-----	1000	2000
6.1	-----	240	540	-----	400	900	-----	500	1125	-----	600	1350	-----	800	1800
6.2	-----	180	480	-----	300	800	-----	375	1000	-----	450	1200	-----	600	1600
6.3	-----	120	420	-----	200	700	-----	250	875	-----	300	1050	-----	400	1400
6.4	-----	60	360	-----	100	600	-----	125	750	-----	150	900	-----	200	1200

% Dissolved CaCO3 vs. Time



U.S. Mesh to Microns Conversion Chart

U.S. Mesh	Microns (<i>max size of passing product</i>)	
25	710	Beach sand
60	250	Fine sand
100	149	Standard Ag Lime
140	105	Human hair
270	53	Silt soil
325	44	MICRONA 325 solution grade
1200	12	Red blood cell
1250	10	MICRONA 325 solution avg. size
4800	2	Cigarette smoke