



2023

Indiana Aglime Quality Report

To protect your investment and your yields, balance your soil pH
with Indiana Aglime.

Protect Your Investment



Soils naturally progress toward low pH, resulting in acidic soil. But today, agricultural trends and fertilizer treatments are accelerating this natural progression. Why is this a problem? Because acidic soils undermine the effectiveness of expensive fertilizers and cause a significant yield drag.

To protect your investment and your yields, balance your soil pH with Indiana Aglime.



Indiana Aglime ensures the full value of expensive fertilizers.

Acidic soil decreases fertilizer effectiveness. Balance your soil pH with Indiana Aglime.

- Acidic soils inhibit a plant's ability to uptake and use applied nutrients. When soil pH moves below 6.0, over 20% of applied fertilizer is wasted.
- Grubs and weeds, such as vine weed, thistle, dandelion, butter print and horsetail, thrive in acidic soil.
- Acidic soil increases the solubility and toxicity of aluminum, iron and manganese, which adversely affects your crop yields.
- Acidic soil reduces the breakdown of applied fertilizers into usable plant nutrients. Microbial bacteria necessary for breaking down fertilizers cannot thrive in acidic soils. Without bacteria, fertilizers lay inert until they are washed away by leaching, or until a more balanced soil pH is restored.

Soil Acidity	Percent Utilized			Fertilizer Wasted	Cost of Fertilizer Wasted
	Nitrogen	Phosphate	Potash		
Extremely Acid 4.5pH	30%	23%	33%	75%	\$174.44/ac
Very Strong Acid 5.0pH	53%	34%	52%	54%	\$125.59/ac
Strong Acid 5.5pH	77%	48%	77%	33%	\$76.75/ac
Medium Acid 6.0pH	89%	52%	100%	20%	\$46.52/ac
Neutral 7.0pH	100%	100%	100%	0%	\$0/ac

Based on a conservative application of 200N, 100P and 100K, \$232.58 per acre - August 2023 national average pricing provided by DTN Progressive Farmer (dtnpf.com)



Protect Your Yields

Indiana Aglime is a natural soil remedy, bolstering crop yields through a number of benefits. When your soil is too acidic, apply Indiana Aglime to:

- Balance the soil pH, optimizing your plants' ability to uptake applied fertilizers.
- Slow the leaching of expensive fertilizers below the root zone.
- Add valuable nutrients such as calcium and magnesium back into your soil.
- Improve soil tilth by increasing the number of microbial bacteria that aid in the decomposition of agricultural residue, such as corn stalks and other plant matter.
- Promote deeper root growth in dry conditions.
- Improve drainage in wet conditions.

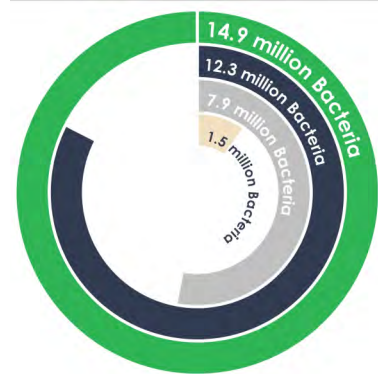
Microbial Bacteria thrive in Neutral soil.

Indiana Aglime balances your soil pH.

Indiana Aglime helps to keep water supplies clean and healthy by reducing the amount of nitrates and other fertilizer components that otherwise seep into the groundwater.

Furthermore, Indiana Aglime is a cost-efficient remedy for treating acidification in lakes, reservoirs and ponds. It reduces the toxic effects of aluminum, lead, zinc and other metals harmful to humans and aquatic life.

By adjusting the pH in water, Indiana Aglime supports the survival and reproduction of many fish populations and adds calcium, which aids in the growth and development of bones, scales and shells.



Extremely Acidic	4.4 pH	1.5 million Bacteria
Strongly Acidic	5.2 pH	7.9 million Bacteria
Mildly Acidic	6.4 pH	12.3 million Bacteria
Neutral Soil	7.0 pH	14.9 million Bacteria

Protect Your Environment



Your Indiana Aglime Buyers Guide

Test your soil.

Regular soil tests provide vital information used to determine the best treatment plan for your specific soil needs. Soil pH, fertility, drainage, organic decomposition and other factors derived from the tests will develop the plan for healthy soil maintenance and optimum yield potential.

How often you should test your soil depends on a number of variables, including soil type, crops grown, amount of rain, irrigation tools, type and amount of applied fertilizer, and other farming practices. As a general rule, experts recommend testing your soil every 2 to 3 years.

How deep you should take your soil samples is a science, but, in general, samples should be taken at 2, 4 and 6 inches from at least three different locations for every two acres.

It's important to note: every laboratory uses its own standard of particle size when recommending Indiana Aglime based on soil test results. Learn your lab's particle-size standard to ensure you buy the correct amount and type of Indiana Aglime.

Coarse Aglime

Like sand with fine particles

- Uses:**
- For sustained pH adjustment
 - To add calcium or magnesium
 - For soil treatment

Particle Size: Between the #8 and #60 sieve

Effectiveness • Approx. 50% effective within 1 year

Rate: • 100% effective within 4 years

Fine Aglime

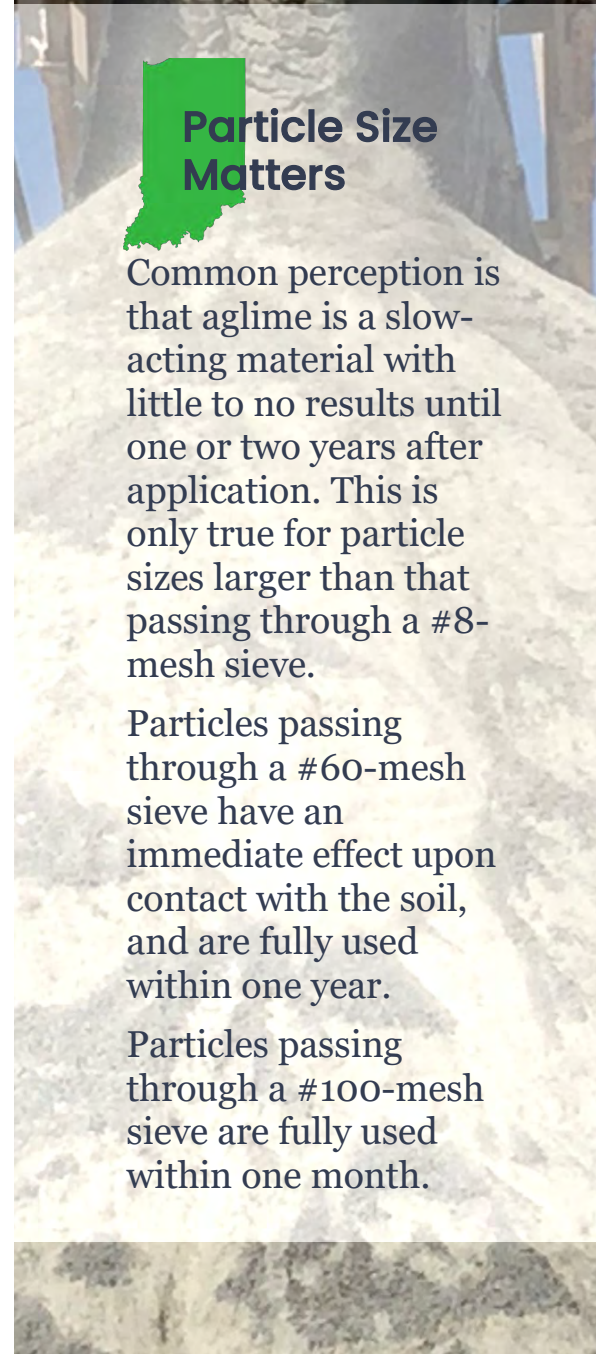
Very fine to pulverized

- Uses:**
- For sustained pH adjustment
 - To add calcium or magnesium
 - For soil treatment
 - When buyer desires the full value of aglime within the first year

Particle Size: Passing the #60 sieve

Effectiveness • 100% effective within 1 year

Rate: • Offers no sustained benefit after first year



Particle Size Matters

Common perception is that aglime is a slow-acting material with little to no results until one or two years after application. This is only true for particle sizes larger than that passing through a #8-mesh sieve.

Particles passing through a #60-mesh sieve have an immediate effect upon contact with the soil, and are fully used within one year.

Particles passing through a #100-mesh sieve are fully used within one month.



Reading the Indiana Aglime Quality Report

The Indiana Aglime Quality Report indicates the percentage of elemental calcium (Ca) and magnesium (Mg) inherent in the aglime you can buy.

Calcium is necessary for organisms that break down and transform unusable nitrates in the soil into usable plant nutrients. Calcium may be deficient in soils where lime has not been applied, where potash fertilizer is used, or where crops are subject to drought.

Magnesium may be deficient in some soils. Dolomitic or high magnesium Indiana Aglime is the most economical way to add this precious nutrient back into your fields.

PARTICLE SIZE + PURITY = RNV

Understanding the significance of these two variables is key to making the wisest aglime sourcing selection for optimum results and value.

Particle Size Sieve Analysis

Particle size has a bearing on how fast Indiana Aglime will react in your soil and is depicted by the percent passing through a specified sieve size. #8 and #60 are the most commonly used measures.

Acidic soils needing an immediate pH balance adjustment call for a high percent of fine particles small enough to pass through #60 sieve.

To ensure full use of applied fertilizers, specify an Indiana Aglime product with a mix of coarse and fine particles, ensuring both a quick and sustained interaction.

Purity CCE NV Percent

Chemical purity is defined as “CCE NV percent” (or Calcium Carbonate Equivalent Neutralizing Value Percent).

Simply stated, CCE NV is a measure of an Indiana Aglime product’s ability to neutralize soil acidity, relative to that of pure calcium carbonate. For example, a CCE of 100 is equal to pure calcium carbonate.

Therefore, the higher the aglime product’s CCE, the less of it is needed to neutralize the soil.

RNV INTERACTION

This figure identifies the overall effectiveness of any particular Indiana Aglime product. The RNV percent, or Relative Neutralizing Value, indicates the interaction between particle size and chemical purity during the first year.



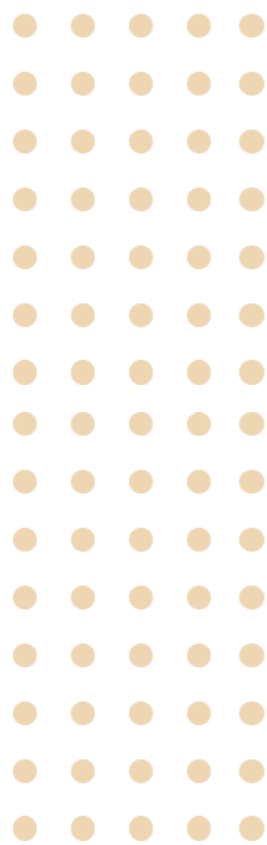
2023 Indiana Aglime Quality Report

County	Producer Member	Contact	Sample	Sieve Analysis (Mesh Size) Percent Passing			CCE N _v %	Ca%	Mg%	R _N %
				#8	#60	#100				
Adams	US Aggregates Linn Grove - Bluffton, IN	Kari Reynolds (765) 220-5579 kari.reynolds@usagg.com		71	25	22	101.4	21.2	11.0	48.5
Adams	US Aggregates Pleasant Mills - Decatur, IN	Kari Reynolds (765) 220-5579 kari.reynolds@usagg.com		99	37	29	105.3	21.5	11.9	71.4
Allen	Heidelberg Materials Ardmore Quarry - Fort Wayne, IN	Sean McCaffrey (260) 257-7075 sean.mccaffrey@heidelbergmaterials.com		99	92	82	98.7	21.8	10.5	94.5
Allen	Stone-Street Quarries, Inc. Poe Quarry - Hoagland, IN	Phill Dille (260) 639-6511 pdille@stonestreetquarries.com		100	99	89	92.8	20.6	10.2	92.4
Bartholomew	US Aggregates Columbus - Columbus, IN	Jordan Holt (317) 538-8467 jordan.holt@usagg.com	Sample A	88	34	29	97.0	24.9	8.1	59.4
			Sample B	89	34	29	97.0	24.9	8.2	59.2
Carroll	US Aggregates Delphi Plant - Delphi, IN	Ross Larimore (765) 413-7779 rlarimore@usagg.com		98	31	24	103.5	21.9	11.5	66.5
Cass	Engineering Aggregates Corp. Logansport Plant - Logansport, IN	Darin Oliver (574) 753-5506 darino@engagg.com	Sample A	91	36	32	97.5	22.0	9.9	61.8
			Sample B	83	28	24	91.3	25.1	6.5	50.7
			Sample C	93	39	35	92.3	21.7	9.2	61.2
Clark	Mulzer Crushed Stone, Inc. Charlestown Plant - Charlestown, IN	Greg Hagedorn (812) 430-2516 greg.hagedorn@mulzer.com	Sample A	89	29	24	97.9	21.0	10.4	57.6
			Sample B	87	38	32	97.9	22.8	9.2	61.3
Crawford	Mulzer Crushed Stone, Inc. Cape Sandy Quarry - Leavenworth, IN	Kevin Kain (812) 719-5004 kevin.kain@mulzer.com		99	44	33	96.3	32.6	3.0	69.0
Crawford	Mulzer Crushed Stone, Inc. Temple Quarry - English, IN	Greg Hagedorn (812) 430-2516 greg.hagedorn@mulzer.com		89	26	20	93.7	33.1	2.5	53.9
Crawford	Mulzer Crushed Stone, Inc. Tower Quarry - Leavenworth, IN	Greg Hagedorn (812) 430-2516 greg.hagedorn@mulzer.com		97	41	36	95.2	32.4	3.3	65.8
Decatur	New Point Stone Company Harris City Quarry - Greensburg, IN	Jeff Wanstrath (812) 663-2021 jeffw@newpointstone.com		57	10	10	96.8	30.3	4.4	32.8
Decatur	New Point Stone Company New Point Quarry - New Point, IN	Jeff Wanstrath (812) 663-2021 jeffw@newpointstone.com		98	34	29	92.8	27.2	5.1	61.0
Franklin	New Point Stone Company Derbyshire Quarry - Laurel, IN	Jeff Wanstrath (812) 663-2021 jeffw@newpointstone.com	Sample A	78	26	21	96.5	21.0	9.8	50.3
			Sample B	86	29	24	93.4	25.2	6.7	53.5
Grant	Irving Materials, Inc. Pipe Creek Jr. - Swayzee, IN	Ray Bates (260) 210-4036 ray.bates@irvmat.com		96	44	36	98.4	37.5	0.8	68.8
Hamilton	Irving Materials, Inc. Stony Creek - Noblesville, IN	Ray Bates (260) 210-4036 ray.bates@irvmat.com		91	35	29	90.8	29.8	2.9	57.4
Harrison	Mulzer Crushed Stone, Inc. New Amsterdam Quarry - New Amsterdam, IN	Kevin Kain (812) 719-5004 kevin.kain@mulzer.com		99	36	29	93.2	31.9	3.5	62.9
Howard	Martin Marietta Kokomo Plant - Kokomo, IN	Brent Leininger (765) 459-3194 brent.leininger@martinmarietta.com		94	41	35	86.0	29.3	2.7	57.9
Huntington	Irving Materials, Inc. Huntington - Huntington, IN	Ray Bates (260) 210-4036 ray.bates@irvmat.com		89	31	26	104.9	21.8	11.8	63.4
Jay	US Aggregates Portland Plant - Portland, IN	Kari Reynolds (765) 220-5579 kari.reynolds@usagg.com		100	100	97	107.2	21.7	12.3	107.1
Lake	Beemsterboer Aggregates South Shore Plant - Gary, IN	Rich Droske (219) 746-8215 richard.d@beemcompanies.com		74	19	13	92.0	27.1	6.9	42.4
Lake	Phoenix Global East Chicago - East Chicago, IN	Paul Overton (219) 307-3534 paul.overton@phoenix-services.com	Sample A	87	47	42	91.0	26.3	7.2	61.1
			Sample B	89	48	43	92.0	26.6	7.2	62.7
Lake	South Lake Stone Hebron Plant - Hebron, IN	Samantha Hensley (574) 780-9300 Samantha.hensley@southlakestone.com		98	43	35	94.6	20.6	10.3	66.8
Lake	US Aggregates Lowell Plant - Lowell, IN	John Masterson (317) 771-8599 jmasterson@usagg.com	Sample A	100	57	43	107.6	21.8	12.5	84.1
			Sample B	54	23	17	91.5	20.2	10.5	35.2

*Samples taken by The Aglime Council in 2023. Samples tested by Bowser-Morner Testing Laboratories, Dayton, OH, AASHTO/ISO 17025 Accredited Laboratory - USACE Validated

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For more information, visit aglime.org

County	Producer Member	Contact	Sieve Analysis (Mesh Size) Percent Passing			CCE NV%	Ca%	Mg%	RVN%	
			Sample	#8	#60					#100
Lawrence	Rogers Group, Inc. Mitchell Crushed Stone - Mitchell, IN	Brent Baker (812) 345-5271 brent.baker@rogersgroupinc.com		83	27	21	95.1	37.6	0.4	52.4
Lawrence	US Aggregates Springville - Springville, IN	Jordan Holt (317) 538-8467 jordan.holt@usagg.com		96	36	31	93.8	32.2	3.1	62.3
Marion	Little-ton & Sons Sand and Supply Lake Road - Indianapolis, IN	Mendel Shank (317) 412-5432 sales@little-ton.com		79	32	27	83.0	22.0	6.4	45.8
Miami	Heidelberg Materials Milner Quarry - Peru, IN	Cliff Lingerfeldt (317) 473-1028 cliff.lingerfeldt@heidelbergmaterials.com		85	28	25	95.7	23.3	8.3	54.3
Monroe	Rogers Group, Inc. Bloomington Plant - Bloomington, IN	Chris Hill (812) 320-5104 chris.hill@rogersgroupinc.com	Sample A	69	21	16	93.7	36.9	0.6	42.0
			Sample B	100	49	23	97.7	37.9	0.6	72.6
Newton	Rogers Group, Inc. Newton County Stone - Kentland, IN	Josh Trader (765) 202-1239 josh.trader@rogersgroupinc.com	Sample A	72	21	18	102.8	21.2	11.8	47.9
			Sample B	89	29	25	98.5	20.5	11.2	58.3
Porter	Phoenix Global Port of Indiana - Portage, IN	Paul Overton (219) 307-3534 paul.overton@phoenix-services.com	Sample A	72	19	13	93.9	27.4	6.1	42.7
			Sample B	85	51	42	91.5	27.2	6.3	62.2
Pulaski	Heidelberg Materials Francesville Quarry - Francesville, IN	Scott Malpasuto (765) 822-0254 scott.malpasuto@heidelbergmaterials.com	Sample A	93	13	7	103.9	21.7	12.3	55.1
			Sample B	100	36	30	95.6	20.4	10.8	64.7
Pulaski	US Aggregates Francesville Plant - Francesville, IN	John Masterson (317) 771-8599 jmasterson@usagg.com	Sample A	90	28	22	99.3	20.7	11.5	58.3
			Sample B	68	8	5	105.2	21.7	12.5	39.9
Putnam	Heidelberg Materials Putnamville Quarry - Cloverdale, IN	Cliff Lingerfeldt (317) 473-1028 cliff.lingerfeldt@heidelbergmaterials.com		96	36	30	94.6	35.5	1.2	62.8
Putnam	Martin Marietta Cloverdale Quarry - Cloverdale, IN	Brent Leininger (765) 795-3536 brent.leininger@martinmarietta.com		94	36	30	90.0	35.8	0.4	58.7
Putnam	US Aggregates 243 Quarry - Cloverdale, IN	Jordan Holt (317) 538-8467 jordan.holt@usagg.com	Sample A	77	29	26	93.4	30.1	3.9	49.3
			Sample B	75	28	22	94.3	36.9	0.5	48.3
Randolph	US Aggregates Ridgeville Plant - Ridgeville, IN	Kari Reynolds (765) 220-5579 kari.reynolds@usagg.com		91	35	29	103.7	21.6	12.0	65.2
Ripley	Heidelberg Materials Versailles Plant - Versailles, IN	Pete Gumaelius (812) 406-7816 peter.gumaelius@heidelbergmaterials.com		82	32	27	100.0	22.7	9.4	56.8
Ripley	New Point Stone Company Napoleon Plant - Napoleon, IN	Steve Wanstrath (812) 852-4225 steve@newpointstone.com	Sample A	92	34	29	92.4	33.3	1.8	58.1
			Sample B	95	42	33	93.8	35.3	0.8	64.6
Rush	Rush County Stone Co. ST RD 244 - Milroy, IN	Mike Malinoff (800) 621-7625 mike.malinoff@jrjnet.com		70	27	24	94.5	25.6	7.0	45.9
Scott	Heidelberg Materials Scott County Quarry - Lexington, IN	Pete Gumaelius (812) 406-7816 peter.gumaelius@heidelbergmaterials.com		96	44	39	95.1	30.4	3.8	66.7
Shelby	New Point Stone Company St. Paul Plant - St. Paul, IN	Jeff Wanstrath (812) 663-2021 jeffw@newpointstone.com	Sample A	99	46	40	103.3	23.1	10.8	75.0
			Sample B	97	36	31	92.5	31.4	3.0	61.6
Shelby	US Aggregates Flat Rock - Flat Rock, IN	Jordan Holt (317) 538-8467 jordan.holt@usagg.com	Sample A	92	31	27	98.8	26.7	7.0	60.9
			Sample B	75	26	22	95.4	31.8	3.1	48.5
Wabash	West Plains Mining, LLC Kentner Creek Quarry - Wabash, IN	Kate Draper (260) 571-7054 kate.draper@westplainsmining.com		90	32	28	97.6	31.7	3.0	59.5
Wayne	Barrett Paving Materials, Inc. Richmond Plant - Richmond, IN	Mark Comer (937) 538-0953 mark.comer@barrett paving.com	Sample A	97	37	29	102.7	24.6	9.0	68.7
			Sample B	100	100	98	105.0	27.0	7.7	104.9
White	Heidelberg Materials Monon Quarry - Monon, IN	Scott Malpasuto (765) 822-0254 scott.malpasuto@heidelbergmaterials.com		98	20	13	104.3	22.2	11.7	61.6
Illinois - Cook	Heidelberg Materials Thornton Quarry—Thornton, IL	Scott Malpasuto (765) 822-0254 scott.malpasuto@heidelbergmaterials.com	Sample A	64	22	19	100.4	20.7	11.3	43.3
			Sample B	78	25	21	104.5	21.5	12.2	53.9
Kentucky - Carroll	Phoenix Global North American Stainless - Ghent, KY	Paul Overton (219) 307-3534 paul.overton@phoenix-services.com		98	88	74	108.5	34.4	5.7	100.7



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A part of the Indiana Mineral Aggregates Association

