

2010 - 2011

Indiana Aglime Protects Your Green



aglime.org



Protects Your Investment



Protects Your Yields



Protects Your Environment

The
Aglime
Council

*Profitable for You.
Right for the Environment.*

INSIDE: YOUR INDIANA AGLIME QUALITY REPORT

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INDIANA AGLIME PROTECTS

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

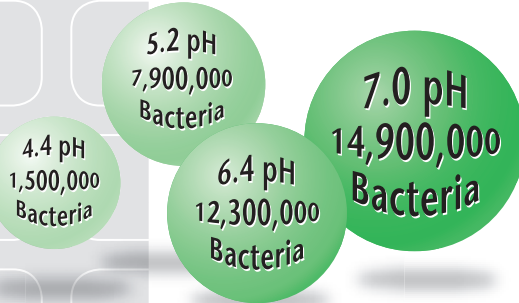
effectiveness of expensive fertilizers and cause a significant yield drag.

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

Acidic Soil Decreases Fertilizer Effectiveness

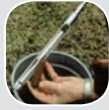
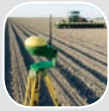
Soil Acidity	Percent Utilized			Fertilizer Wasted	Cost of Fertilizer Wasted*
	Nitrogen	Phosphate	Potash		
Extremely Acid 4.5 pH	30%	23%	33%	75%	\$84.00
Very Strong Acid 5.0 pH	53%	34%	52%	54%	\$61.00
Strongly Acid 5.5 pH	77%	48%	77%	33%	\$37.00
Medium Acid 6.0 pH	89%	52%	100%	20%	\$23.00
Neutral Acid 7.0 pH	100%	100%	100%	0%	\$0.00

* Based on conservative application of 200N, 100P & 100K per acre @ July, 2009 average pricing.



INDIANA AGLIME ENSURES THE FULL VALUE OF EXPENSIVE FERTILIZERS

- Acidic soils inhibit a plant's ability to uptake and use applied nutrients. When soil pH moves below 6.0, 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.





INDIANA AGLIME PROTECTS 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, extending their impact.
- 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.

INDIANA AGLIME PROTECTS Your Environment

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.



In a recent U.S. Department of Agriculture release, Indiana ranked 6th worst among states responsible for pollution from farm nutrient runoff into the Mississippi River.

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 drive 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.

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.

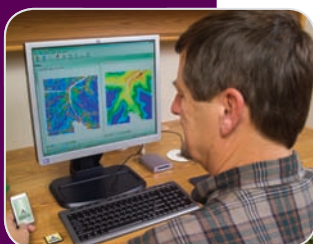
Particles passing through a #60-mesh sieve have an immediate effect upon contact with the soil, and are fully used within one year.

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



Aglime Effectiveness by Particle Size and Rate

Physical Description and Use	Particle Size	Within 1 Year	Within 4 Years
<p><i>Coarse: like sand with fine particles</i></p> <ul style="list-style-type: none"> • For sustained pH adjustment • To add calcium or magnesium • For soil treatment 	Between the #8 and #60 sieve	~50%	100% efficient
<p><i>Fine: very fine to pulverized</i></p> <ul style="list-style-type: none"> • For rapid pH adjustment • To add calcium or magnesium • For soil treatment • When buyer desires the full value of aglime within the first year 	Passing the #60 sieve	100%	Offers no sustained benefit after the first year



For more information, contact:

The Aglime Council
11711 North College Avenue, Suite 180
Carmel, Indiana 46032-5601
Tel: (317) 580-9100

Reading the Quality Report

The Indiana Aglime Quality Report indicates the percentage of 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 that have not been limed, where potash fertilizer is used and 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.



2010 - 2011

INDIANA AGLIME QUALITY REPORT



County	Producer - Member	Description	Sieve Analysis (Mesh Size)			CCE %	Ca %	Mg %	RVN %
			#8	#60	#100				
Allen	HANSON AGGREGATES MIDWEST LLC Ardmore Quarry - Fort Wayne, IN (260) 747-3105 Rick Hullinger	Ledges 1-7, 8-9, Dolomitic Fine	100	93	84	101.6	22.1	12.1	97.7
		Ledges 1-7, 8-9, Dolomitic Coarse	62	20	17	95.5	19.7	11.9	39.0
Bartholomew	MESHBERGER STONE, INC. Columbus Plant - Columbus, IN (812) 579-5241 Jeff Brown	Ledges 11-12, Calcitic Regular	84	32	27	93.6	32.3	2.7	54.2
Carroll	U.S. AGGREGATES, INC. Delphi Quarry - Delphi, IN (765) 564-2580 Joe Mayfield	Hanna II Level III Dolomitic Regular	97	28	22	103.7	22.3	12.5	65.2
Cass	ENGINEERING AGGREGATES CORP. Logansport Plant - Logansport, IN (574) 753-5506 Tom Busch	Ledges 1-5, Calcitic	94	38	33	93.8	25.6	7.2	61.7
		Ledges 6-9, Dolomitic	93	37	32	97.4	21.0	10.8	63.0
Clark	MULZER CRUSHED STONE, INC. Charlestown Plant - Charlestown, IN (812) 256-3346 Mike Bartelt	Ledges 5-603, Dolomitic	86	26	22	99.5	20.5	10.7	55.6
		Ledges 1006-3, Dolomitic	85	33	29	98.6	26.2	8.1	58.1
Crawford	MULZER CRUSHED STONE, INC. Cape Sandy Quarry - Leavenworth, IN (812) 739-2929 Mike Bartelt	Ledges 603-610, Calcitic	99	33	27	95.6	34.2	2.7	62.9
	MULZER CRUSHED STONE, INC. Temple Quarry - English, IN (812) 365-2145 Mike Bartelt	Ledges 505-601, Calcitic	98	36	29	91.7	37.0	0.5	61.5
	MULZER CRUSHED STONE, INC. Tower Quarry - Leavenworth, IN (812) 739-4777 Mike Bartelt	Ledges 602-10, Calcitic	95	33	26	96.9	35.4	2.2	61.8
Grant	IRVING MATERIALS, INC. Pipe Creek Jr. - Swayzee, IN (765) 661-0312 Mike Gross	High Calcium	94	32	24	96.4	38.7	0.4	60.5
	LEVY SPECIALTY PRODUCTS Marion, IN (985) 768-0794 Ron Pinecki	KB, Slag Aglime	100	81	68	70.0	18.9	3.2	63.4
		D6, Slag Aglime	97	55	46	73.7	20.1	3.9	56.2
Hamilton	IRVING MATERIALS, INC. Stoney Creek - Noblesville, IN (765) 661-0312 Mike Gross	Calcitic Regular	99	39	34	96.0	22.2	8.8	66.5
Harrison	MULZER CRUSHED STONE, INC. New Amsterdam Quarry - New Amsterdam, IN (812) 732-1002 Mike Bartelt	Ledges 801-811, Calcitic	97	37	29	93.9	33.6	2.8	63.0
Howard	MARTIN MARIETTA AGGREGATES Kokomo Plant - Kokomo, IN (765) 459-3194 Brent Leininger	Ledges 502-10, Calcitic	85	32	27	87.0	30.1	1.8	51.1
Huntington	IRVING MATERIALS, INC. Huntington Plant - Huntington, IN (765) 661-0312 Mike Gross	Composite, Dolomitic Regular	98	41	33	102.9	21.4	12.2	71.1
Jasper	HANSON AGGREGATES MIDWEST LLC Plant 578 - Rensselear, IN (800) 691-9777 Ext. 2 Tom Bryja	Ledges 8-10, Dolomitic Fine	99	24	19	106.8	22.0	12.9	66.1
Jay	MESHBERGER BROS STONE, CORP. Portland Plant - Portland, IN (260) 726-7642 Eric Reynolds	Ledges 1 & 2, Dolomitic Fine	100	99	94	107.4	22.0	12.8	106.7
Lake	VULCAN MATERIALS COMPANY Plant 343 - Lowell, IN (217) 696-5467 Ron Kamstra	Ledges 1-3, Dolomitic Coarse	62	22	18	101.0	20.8	11.5	42.3
Lawrence	ROGERS GROUP, INC. Mitchell Crushed Stone - Mitchell, IN (812) 849-3530 Craig Huffine	Ledges 6-20, Calcitic Fine	93	34	27	95.4	36.8	1.1	60.5
	ROGERS GROUP, INC. Sieboldt Quarry - Springville, IN (812) 279-3539 Craig Huffine	Ledges 4-9, Fine Calcitic	99	89	78	94.5	33.9	3.0	88.6
Ledges 4-9, Coarse Calcitic		75	31	26	95.3	35.2	1.8	50.6	

2010 - 2011

INDIANA AGLIME QUALITY REPORT



**Sieve Analysis
(Mesh Size)**
Percent Passing
#8 #60 #100
CCE NV %
Ca %
Mg %
RNV %

County	Producer - Member	Description	#8	#60	#100	CCE NV %	Ca %	Mg %	RNV %
Miami	ROCK INDUSTRIES, INC. Peru Plant - Peru, IN (765) 473-5578 Holly Ward	Ledges 3-4 E, Calcitic Regular	90	33	28	91.2	27.4	4.0	56.4
	HANSON AGGREGATES MIDWEST LLC Milner Quarry - Peru, IN (765) 689-9074 Rick Hullinger	Ledges 1-4, 5, 6-8 Dolomitic Fine	98	60	55	100.1	21.6	11.4	79.3
Monroe	ROGERS GROUP, INC. Bloomington Plant - Bloomington, IN (812) 333-8560 Gary Barrow	Ledges 1-3, Calcitic Regular	83	31	25	95.3	38.7	0.3	54.1
		Ledges 4-6, Calcitic Regular	84	45	32	95.1	36.8	1.2	61.3
Montgomery	WHITESVILLE MILL SERVICE Nucor Steel - Crawfordsville, IN (219) 405-2588 Dan Nellessen	Slag Fine	85	11	8	68.2	19.7	4.4	33.0
		QA-24 Fine	76	9	5	72.5	18.3	2.4	30.5
Newton	ROGERS GROUP, INC. Newton County Stone - Kentland IN (219) 474-5125 Adam Regich	Ledges 1-2/4-6, Calcitic Regular	91	28	24	97.2	20.0	10.8	58.2
		Ledges 1-2, 4-5-6, Calcitic Fine	95	36	30	104.5	22.1	12.4	68.8
Owen	ROGERS GROUP, INC. Owen Valley Quarry - Spencer, IN (812) 829-2066 Gary Barrow	Ledge 2011-505, Calcitic Fine	93	38	34	81.7	28.5	2.8	53.5
Porter	THE LEVY COMPANY Port of Indiana - Portage, IN (219) 406-1194 Kurt Crowel	Calcitic Fine	76	16	11	81.7	21.2	4.1	37.9
		CBD, Calcitic Fine	92	28	21	81.5	21.5	4.0	49.2
Pulaski	HANSON AGGREGATES MIDWEST LLC Plant 577 - Francesville, IN (800) 691-9777 Ext. 2 Tom Bryja	Ledge 3-4, Dolomitic Fine	94	33	26	106.5	21.9	12.8	67.6
		Level 1, Ledge 9, Dolomitic Fine	99	43	36	106.3	21.9	12.8	75.6
		Level 1, Ledge 9, Dolomitic Regular	78	20	16	106.8	21.9	12.8	52.4
Putnam	MARTIN MARIETTA AGGREGATES Cloverdale Quarry - Cloverdale, IN (765) 795-3536 Chris Hill	Level 1, Ledge 9, Dolomitic Coarse	88	13	7	106.3	22.1	12.8	53.6
		Ledge 101-4, Calcitic	97	50	43	87.9	34.5	0.8	64.8
		NEW POINT STONE COMPANY Napoleon Plant - Napoleon, IN (812) 852-4225 Steve Wanstrath	White Lime, Calcitic Regular	99	52	46	86.0	30.3	1.6
Brassfield High Calcium, Calcitic Fine	99		37	29	95.7	37.4	0.7	65.0	
Rush	RUSH COUNTY STONE CO., INC. Milroy Plant - Milroy, IN (765) 629-2211 Bob Cheek	Ledge 1-3, Dolomitic Brown	93	49	44	101.7	23.4	10.8	72.1
		Ledge 5-10, Calcitic White	90	42	36	93.1	27.7	4.8	61.5
Shelby	MESHBERGER STONE, INC. Cave Plant - Flat Rock, IN (765) 525-6442 Jeff Brown	Ledge 4-9, Dolomitic Regular	91	26	23	100.3	25.4	9.6	58.9
		NEW POINT STONE COMPANY St. Paul Plant - St. Paul, IN (812) 852-4225 Steve Wanstrath	Ledge 1 & 2, Brown Dolomitic	92	46	40	103.2	23.3	11.2
Ledge 5 & 7, White Calcitic	96		30	25	93.7	32.5	2.4	59.1	
Wayne	BARRETT PAVING MATERIALS, INC. Richmond Plant - Richmond, IN (765) 962-6596 Claude Seibel	Ledge 2-6, Calcitic Regular	100	35	29	102.6	24.6	10.5	69.2
White	HANSON AGGREGATES MIDWEST LLC Monon Quarry - Monon, IN (800) 691-9777 Ext. 2 Tom Bryja	Ledge 2, Dolomitic Fine	100	18	12	104.8	21.7	12.6	61.8
		VULCAN MATERIALS COMPANY Monon Quarry - Monon, IN (219) 253-6686 Paul Overton	Levels 1 & 2, Dolomitic Coarse	86	13	8	104.8	21.8	12.5

*Samples taken by The Aglime Council. Samples tested by Bowser-Morner Testing Laboratories, Dayton, OH, ISO 17025 Accredited Laboratory

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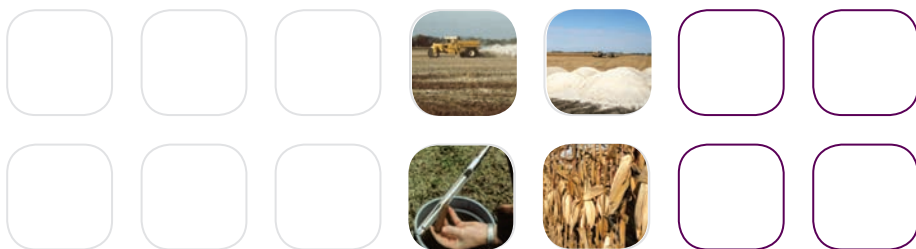


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