

**SUITABILITY OF QUARRY ROCK FOR USE AS RIPRAP**

Revised February 2004

FINDLAY AREA									
QUARRY NAME	COUNTY	DATE OF LAST INSPECTION	SUITABLE FOR RIPRAP	GEOLOGICAL FORMATION	MAXIMUM BEDDING THICKNESS (Feet)	HAMMER BLOW HARDNESS	PRESENCE OF CRACKS	GRADATION	COMMENTS
Blufton Stone	Allen	Jul-03	questionable	Tymochtee	2			good	Wait for lab test results
Nat'l Lime & Stone Lima Plant	Allen	Nov-89	poor	Tymochtee	3/4			poor	Too slabby and small.
Suever Stone	Allen	May-03	poor	Tymochtee	1/2			poor	Too slabby and small.
Con-Ag	Auglaize	May-03	poor	Cedarville	over 3	hard	few	poor	
Nat'l Lime & Stone Buckland Plant	Auglaize	May-03	good	Cedarville	5	hard	few	good	
Nat'l Lime & Stone Bucyrus Plant	Crawford	Sep-94	good	Columbus	3	hard	few	good	
Nat'l Lime & Stone Findlay Plant	Hancock	Nov-86	poor	Tymochtee	3	hard	many	poor	Too slabby and small.
C.E. Duff & Son	Hardin	Nov-89	poor	Tymochtee	1			poor	Blocks are too small.
Barrett Paving	Lucas	1994	poor	Detroit River	3	hard and soft	few	poor	High soundness losses on slabs.
Hanson Aggregates Slica Plant	Lucas	Aug-94	questionable	Detroit River	over 3	hard	few	good to poor	Check gradation.
Hanson Aggregates Waterville Plant	Lucas	Mar-90	poor	Greenfield	3		many	poor	Weathers easily.
Stoneco Maumee Plant	Lucas	Aug-94	questionable	Lockport	over 5	hard	few	poor to good	Check gradation at time of use.
Shelly Materials Tri-County Limestone	Marion	Aug-03	good	Greenfield	4	hard	few	good	
Nat'l Lime & Stone Marion Plant	Marion	Dec-92	good	Columbus	over 5	hard	few	good	High absorption.

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Stoneco White Rock Quarry	Ottawa	Sep-03	good	Lockport	over 5	hard	few	good	
Stoneco Rocky Ridge Plant	Ottawa	Sep-03	good	Greenfield	over 5	hard	few	good	
Sylvester Materials	Ottawa	Aug-94	questionable	Lockport	over 5	soft	few	Too large and too small	Check gradation at time of use.
Hanson Aggregates Paulding Plant	Paulding	Sep-94	poor	Tenmile Creek	2	hard	few	poor	Too small.
Putnam Stone	Putnam	Nov-94	poor	Tymochtee	1			good	Many shale partings.
Carmeuse Maple Gorve Stone	Seneca	Sep-03	poor	Lockport	over 5	soft	many	poor	
Hanson Aggregates Bloomville Plant	Seneca	Sep-93	questionable	Columbus	5	hard	very few	good to poor	Check gradation at time of use.
Hanson Aggregates Flat Rock Plant	Seneca	Sep-93	good	Columbus	5	hard	few	good	
Suever Stone	Van Wert	Oct-94	poor	Tymochtee	1/2			poor	Too slabby and small.
Ridge Twp. Stone	Van Wert	Oct-94	good	Tymochtee	2 1/2	hard	few	good	
Stone Co. Union Plant	Van Wert	May-03	good	Salina	5	hard	few	good	
Custar Stone Co.	Wood	Aug-03	good	Dundee	over 5	hard	few	good to poor	Check gradation at time of use.
Stone Company Lime City Plant	Wood	Aug-94	questionable	Greenfield	over 5	hard and soft	many	poor	Blast has many fines.

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Hansen Flat Rock	Seneca	Sep-03	questionable	Columbus		hard	few	many oversize	
Stone Company Portage Plant	Wood	Aug-94	good	Greenfield	over 5	hard	few	good	
McRitchie Materials	Wood	Aug-03	good	Greenfield	over 5	hard	very few	good to poor	Check gradation.
Precision Aggregates	Wood	Sep-94	poor	Tymochtee	over 5	hard	few	good	Many fines.
Charles H. McCarthy Quarry	Wyandot	Aug-94	poor	Tymochtee	1		many	poor	Too small.
Nat'l Lime & Stone Carey Plant	Wyandot	Jul-03	questionable	Greenfield	5	hard	few	poor	Need to mix C&B stockpiles.
Wyandot Dolomite	Wyandot	Jul-03	poor	Lockport	over 5	hard	very few	poor	Too small.
Meshberger Stone	Pleasant Mills Indiana	Jan-94	questionable		5			poor	Low loss in freeze/thaw tests.

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<b>MEDINA AREA</b>									
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Erie Blacktop	Erie	Aug-94	poor	Columbus	over 5	hard	few	good	Slabby and many oversize blocks.
Sandusky Crushed Stone Company	Erie	Oct-02	good	Columbus	over 3	hard	very few	good	
Wagner Quarries	Erie	Oct-02	good	Columbus	over 3	hard	very few	good	
Honey Creek Stone Co.	Mahoning	Sep-94	good	Vanport	3 1/2	hard	very few	good	
Essrock Aggregate	Mahoning	Sep-94	good	Vanport		hard	few	good	
Petersburg Stone	Mahoning	Sep-94	questionable	Vanport		hard		good	Estimate 20-25% breakage of rock
J&D Mining	Stark	Aug-03	good	Putnam Hill		HARDNESS	few	good	

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<b>COSHOCTON AREA</b>									
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Ayers Quarry	Belmont	Apr-03	good	Lower Washington	4	hard	few	good	9.4% soundness loss on slabs.
Black Gold Recovery	Belmont	Nov-96	questionable	Fishpot				poor	Expect 255% soundness losses
Sidwell Materials	Belmont	Jun-99	questionable	Fishpot		hard	many to few	good	Moderate soundness losses
New Castle	Carroll	Oct-01	poor	Sandstone					High soundness losses
Stone Hill Quarry	Coshocton	Jul-90	good	Putnam Hill	3	hard	few	good	
Zinkon	Coshocton	Sep-94	poor	Vanport	4		few		30% of blocks contain flint.
King Quarries	Guernsey	Sep-94	poor	Ewing	2	hard	few	poor	
Standing Stone	Harrison	Apr-03	good	Fishpot		hard		good	
Christman Quarry	Monroe	May-00	poor	Benwood	1 1/2	hard	many	poor	
Shelly Materials	Muskingum	Mar-03	good	Maxville	3	hard	few	good	
Romig Excavating	Carroll	Sep-99	good	Sandstone					11% soundness losses
Sidwell Materials	Belmont	Dec-98	poor	Fishpot					High soundness losses.
Sidwell Brothers	Muskingum	Mar-03	good			hard	very few	good	18.2% soundness loss on slabs.
Pleasant Valley	Muskingum	May-03	questionable	Maxville		hard-brittle	few	poor	
Salt Creek Materials	Muskingum	Sep-94	poor					poor	Too small.
Sidwell Brothers	Muskingum	Nov-96	good	Maxville	4	hard	few	good	7.4% soundness loss on slabs.
Sharon Stone	Noble	Nov-99	poor	Fishpot	3	hard	many	poor to good	

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Zerger Quarry	Noble	Sep-88	poor	Benwood	3	hard	many	poor	Blast produces Many small blocks.
Maxville Stone	Perry	1986	questionable	Maxville	1 1/2	hard	few	good to poor	50% of slabs had over 32% loss.
Tusky Valley	Tuscarawas	Jun-03	poor	Lockport	2	hard	few	poor	Too small.
Kimble Limestone	Tuscarawas	Jun-03	questionable	Putnam Hill	3	HARDNESS	few	good to poor	

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DAYTON AREA									
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American Aggregate Springfield Plant	Clark	1993	poor	Cedarville	4	hard and soft	few	good to poor	Too small.
Melvin Stone	Clinton	Jul-03	good	Cedarville	3	hard	very few	good	
American Aggregate Ft. Jefferson Plant	Darke	Mar-95	poor	Cedarville	5	soft to hard	few	poor	Too small.
Melvin Stone	Fayette	Oct-87	poor	Tymochtee	1/2				Too slabby.
Martin Marietta Cedarville Plant	Greene	Jul-03	good	Cedaville	over 5	hard	few	good	
C.E. Duff & Son	Logan	Nov-92	poor	Tymochtee	2	hard and soft	many	good	High soundness losses.
Martin Marietta Aggregate	Logan	Aug-00	questionable	Columbus	5	hard	few	good to poor	
Shelly Materials	Logan	May-03	questionable	Tymochtee	3	hard	few	poor	Slabby
Stone Co. Celina Plant	Mercer		good	Lockport	over 4	hard	very few	good on stockpile	
S&S Aggregates	Mercer	Nov-89	poor	Lockport				poor	Too small.
Piqua Stone	Miami	Sep-00	questionable	Brassfield	1	hard and soft	few	poor	
Barrett Paving Materials	Miami	Sep-00	good		5	hard	few	good	
CF Poeppleman	Miami	Sep-00	questionable	Cedarville	over 5	hard	very few	good to poor	Expect 30% loss.
Martin Marietta Phillipsburg Plant	Montgomery	Jul-03	questionable	Springfield Cedarville	over 5	hard	few	poor	Check gradation.
Wysong Stone	Preble	Nov-02	acceptable	Brassfield	2	HARDNESS	few		Check gradation.

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Miami River Stone	Shelby	May-03	good	Cedarville	3	hard	few	good	
Spring Creek Gravel	Shelby	May-03	questionable	Cedarville	5	soft and hard		poor	Expect 20% loss.
LG Rockhold & Sons	Union	Nov-92	poor	Tymochtee	1	hard	numerous		Too slabby.
Shelly Materials	Union	Feb-00	questionable	Columbus	4	hard	few	good to poor	25% soundness losses.
Barrett Paving	Middleboro Indiana	Oct-01	poor	Cedarville	massive	hard	many	good	High soundness
Harris City Stone	Andersonville	May-96	poor		3	hard	few	poor	

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<b>CHILLICOTHE AREA</b>									
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Hanson Aggregates Plum Run	Adams	Mar-03	good	Greenville Tymochee	4	hard	very few		
Standard Larfarge	Adams	Nov-92	poor	Greenfield	over 5	hard	few	poor	Too small.
Eagle Stone Hanson Aggregates	Brown	Mar-03	poor	Brassfield		hard	very few	poor	Too slabby.
Shelly Materials Shawnee Plant	Delaware	Jul-03	questionable	Columbus	4	hard	few	good	Avoid chert.
Nat'l Lime & Stone Warrensburg Plant	Delaware	Jul-03	good	Columbus	4	hard	few	good	
American Aggregate Frank Road Plant	Franklin	Dec-92	good	Columbus	5	hard	few	good	High absorption.
American Aggregate MCQ Plant	Franklin	Nov-92	good	Columbus	over 5	hard	ew	good to poor	
Olan Corp	Franklin	Nov-92	questionable	Silurian	1	soft and hard	many	poor	High absorption.
Hanson Aggregates	Highland	Mar-03	poor	Brassfield	1/2	hard		poor	Too small.
Ohio Asphaltic Limestone Co.	Highland	Mar-03	poor	Cedarville	5	hard	few	poor	Too small.
D&J Energy	Jackson	Oct-88	questionable	Vanport	2	hard	few	good to poor	
Waterloo Coal	Jackson	Apr-03	good	Vanport	1 1/2	hard	few	poor	
Belville Mining Co.	Lawrence	Mar-97	poor	Vanport	3	hard	few		
Melvin Stone	Pickaway	Jul-03	good	Columbus	3	hard and soft	many	good to poor	10% oversize.
Latham Limestone	Pike	Apr-03	good	Greenfield	over 5	hard	very few	good	Mix types C&D
Clinton Stone	Vinton	Apr-03	good	Vanport	4	hard	very few	good	Expect 5% loss from flint.
Jaymar	Vinton	Apr-03	good	Vanport	8	hard	very few	good to poor	