

The 2012 American Agate - Jasper Index: A Quartz Gem Materials Guide



Volume 4 : Northern States

Introduction

The American Agate-Jasper Index is being produced to fill a large gap we, the editors, feel exists in the current coverage of the semi-precious gemstones here in the United States, especially in the quartz family. Presently there are many high-quality, detailed books that show material from across United States (and the world). These books, unfortunately, are limited by their page count, author knowledge, regional focus, cost considerations, and publication deadlines. Though these books are excellent resources, material is constantly omitted that we consider important.

The intention of this Index is to provide lapidaries a comprehensive tool for both the identification of unknown material they encounter at sales, on line, and in other locations, and to also create a generalized visual guide of material that can be found in regions throughout the United States. Our goal is not to produce a 'Gem Trails' book with directions and mileages, nor is it to provide a photographic portfolio of only museum quality specimens, with many pages showing multiple high-end specimens. The first task is beyond our means: the second has already been done successfully by collectors and writers who have resources far beyond our own.

The strength of the American Agate – Jasper Index comes from the source of the material we use: this book is produced through the cooperation of rockhounds and dealers from across the United States and the world. Utilizing internet message boards, we have been blessed with contacts from almost every state who have donated their photographs to our cause. Their aid in chronicling their local 'neighborhood' gives this guide access to material that might otherwise be overlooked by other texts. That these images and information have been freely provided to us, the editors, is a testament to the generosity of people in this hobby.

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We thank everyone who has helped, will help, or supports this endeavor. Please spread the word about this project. We are hoping more collectors across the United States will participate. Special thanks goes out to Steve Holmes. His posting on *Rock Tumbling Hobby* in 2009 initiated the conversation that set the spark for this project, and his contributions to the first Volume helped strengthen our belief that this crazy idea might work.

Sincerely,

Index Editor, Lowell Foster
Assistant Editor, Mel Hixson

Table of Contents

Section	Page
Fossil Material	4
Geodes	41
Thundereggs	43
Nodular Agates	47
Dendritic Material	78
Moss Material	87
Brecciated Material	91
Orbicular Material	98
Agate - Miscellaneous	101
Jasper - Miscellaneous	116
Other Quartz Material	121
Peripheral Material	128
Contributors	134
Contributor Index	136
Location Index	137
Name Index	139
Additional Publications	140
Final Word	141
Appreciations	142

Section 1 : Fossil Material

Petrified Wood

- 06- Big Sandy - Wyoming
- 07- Blue Forest - Wyoming
- 10- Eden Valley - Wyoming
- 14- Farsing - Wyoming
- 15- Parnel Canyon - Wyoming
- 16- Shirley Rim - Wyoming
- 17- Sweetwater County - Wyoming
- 18- Tom Miner - Wyoming
- 19- Wiggins Fork - Wyoming
- 20- Wind River - Wyoming
- 21- Unspecified - "Shea Oak" - Wyoming

Petrified Fern

- 22 - Belmont County - Ohio
- 23 - Saltfork River, Illinois

Cycad

- 26 - Fall River County - South Dakota
- 27 - Unspecified - South Dakota

Limb Casts

- 28 - Absaroka Mountains - Wyoming
- 29 - Wind River - Wyoming

Section 1 : Fossil Material

Stromatolite

30 - Delany's Rim - Wyoming

Invertebrate Fossils

31 - Coral - Illinois

32 - Coral - Acrocyathus - Illinois

33 - Coral - Halysite - Illinois

34 - Coral - Halysite - Minnesota

35 - Coral - Syringopora - Illinois

36 - Crinoid - Illinois

37 - Geodes

38 - Sponge - Illinois

39 - Turitella Agate - Wyoming

Petrified Wood

Big Sandy
Wyoming



Petrified Wood

Blue Forest Wood Wyoming



Petrified Wood

Blue Forest Wood Wyoming



Petrified Wood

Blue Forest Wood

Palm Wood

Wyoming



Petrified Wood

Eden Valley Wood

Wyoming



Petrified Wood

Eden Valley Wood

Wyoming



Petrified Wood

Eden Valley Wood

Misc. Wood Types
Wyoming



Laurel



Pepper Tree



Petrified Wood

Eden Valley Wood

Palm

Wyoming



Petrified Wood

Farsing
Hardwood
Wyoming



Petrified Wood

Parnel Canyon
Sweetwater County
Wyoming

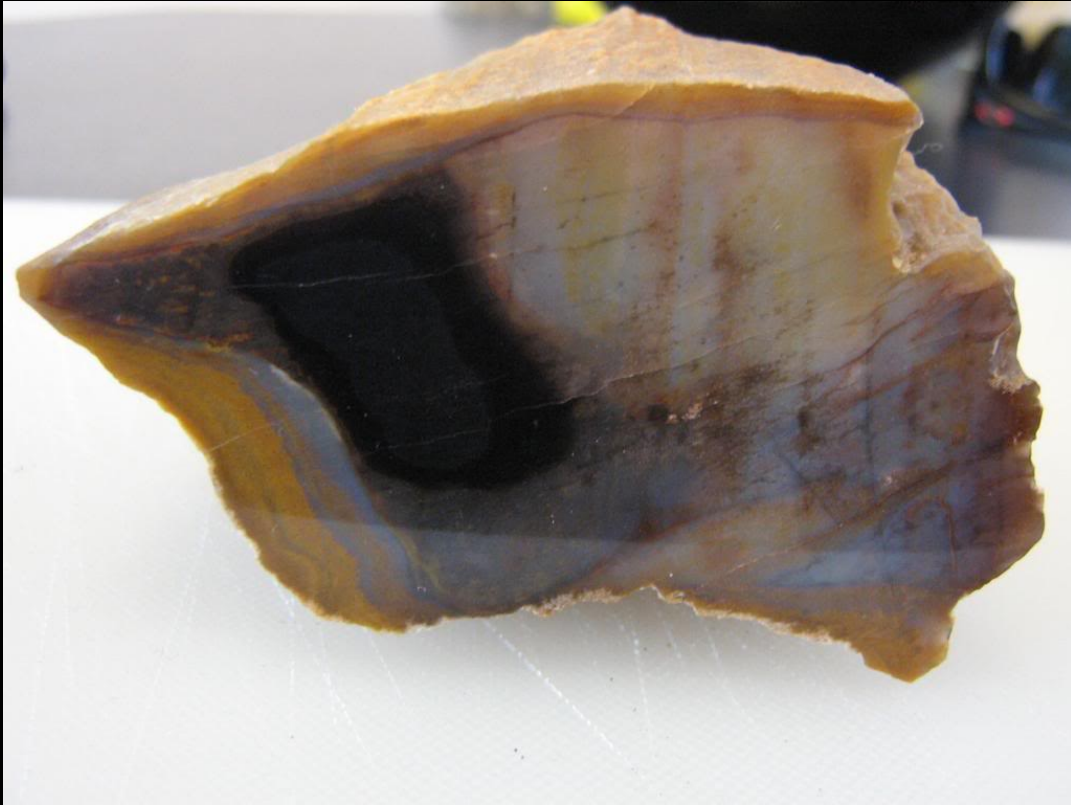


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**TOM WOLFE
MINERALS**

Petrified Wood

Shirley Rim
Wyoming



photos by Mike Schilling

Petrified Wood

Sweetwater County

Palm Wood

Eden Valley

Wyoming



Petrified Wood

Tom Miner
Wyoming



photo by Steven Speer



Petrified Wood

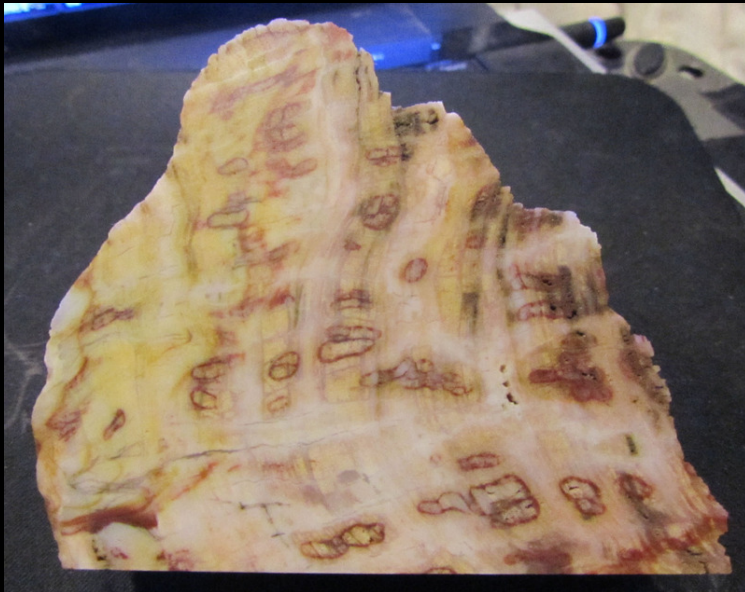
Wiggins Fork
Wyoming



photo by Mike Schilling

Petrified Wood

Wind River
Wyoming



photos by Monte Draper

Petrified Wood

Wyoming - Unspecified
Shea (aka Swamp) Oak



Petrified Fern

Tree Fern
Belmont Co, Ohio



Petrified Fern

Psaronius Fern

Saltfork River
Vermilion Co, Illinois



Petrified Fern

Psaronius Fern

Saltfork River
Vermilion Co, Illinois



Petrified Fern

Psaronius Fern

Saltfork River
Vermilion Co, Illinois



Cycad

Fall River County
South Dakota



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**TOM WOLFE
MINERALS**

Cycad

South Dakota - Unspecified



Limb Cast

Absaroka Mountains

North of Dubois
Wyoming



Limb Cast

Wind River
Wyoming



photos by Monte Draper

Stromatolite

Delany's Rim

Wamsutter
Wyoming



photo by Mel Hixson



photos by Steve Holmes

Invertebrate Fossils

Coral Vermilion Co. Illinois



Rugose Coral

Invertebrate Fossils

Coral - *Acrocyathus*

Tributary of Saltfork River

Vermilion Co.

Illinois



Invertebrate Fossils

Coral - Halysite Chain Coral

aka Bead Chain Coral

Vermilion Co. Illinois

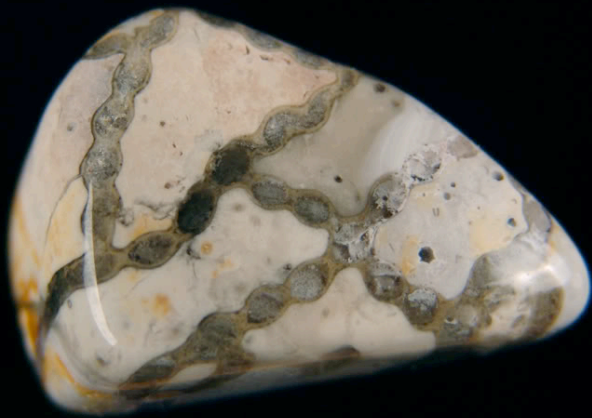


Invertebrate Fossils

Coral - Halysite Chain Coral

aka Bead Chain Coral

Minnesota



Invertebrate Fossils

Coral - Syringopora

Vermilion Co.

Illinois



Invertebrate Fossils

Crinoid in Chert

Vermilion Co.

Illinois



Invertebrate Fossils

Geode
Vermilion Co.
Illinois



Invertebrate Fossils

Sponge- Agatized Vermilion Co. Illinois



Actinostroma



Porifera

Invertebrate Fossils

Turitella Agate

Delany's Rim
Wamsutter, Wyoming



photos by Mel Hixson

Invertebrate Fossils

Turitella Agate Delany's Rim Wamsutter, Wyoming



photo by Jamie Colee



photo by Mark Boche

Section 2 : Geodes

Geodes

00 - Vermilion County - Illinois

Geodes

Vermilion Co.
Illinois



photos by Teyet Kepling

Section 3 : Thunderegg

Thunderegg

44 - Avon - Montana

45 - Cody - Wyoming

46 - Keweenaw - Michigan

Thundereggs

Avon
Montana



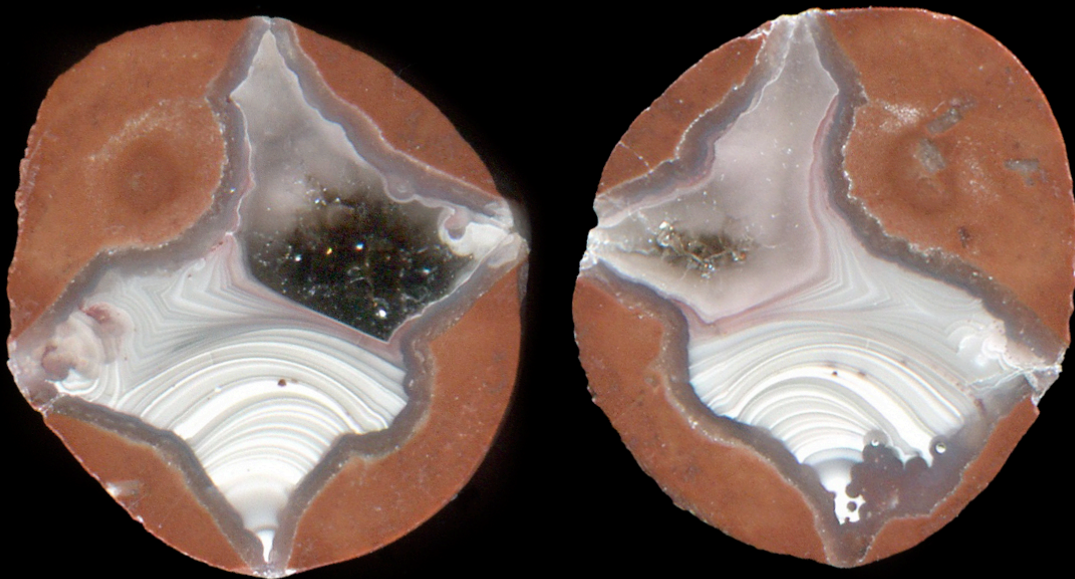
Thundereggs

Cody
Wyoming



Thundereggs

Keweenaw Lake Superior Michigan



Section 4 : Nodular Agate

Nodular Agate

48 - Bear Canyon - Montana

Black Hills Agates - South Dakota

49 - Miscellaneous

50 - Oelrichs

51 - Pringle

53 - Scenic

54 - Teepee Canyon

58 - Townley

59 - Bubblegum Agate - South Dakota

61 - Chaldeony Nodules - South Dakota

62 - Dryhead Agate - Montana

64 - Fairburn Agates - South Dakota

68 - Lakers - Minnesota/Michigan

74 - Prairie Agate - South Dakota/Nebraska

75 - Union Road Agates - Missouri

76 - Vermilion County - Illinois

Nodular Agate

Bear Canyon
Pryor Mountains
Montana



photo by Steve Holmes



photos by Lowell Foster

Nodular Agate

Black Hills

Miscellaneous

South Dakota



photos by Roger Vesely

Nodular Agate

Black Hills

Oelrichs

South Dakota



photo by Roger Vesely



photo by Don Woodward

Nodular Agate

Black Hills

Pringle

South Dakota



photos by Roger Vesely

Nodular Agate

Black Hills

Pringle - White Agate
South Dakota



Nodular Agate

Black Hills

Scenic

South Dakota



Nodular Agate

Black Hills
Teepee Canyon
South Dakota



photo by Mark Boche



photos by Mel Hixson

Nodular Agate

Black Hills
Teepee Canyon Region
South Dakota



photos by Roger Veselay



photo by Steve Holmes

Nodular Agate

Black Hills
Teepee Canyon Region
South Dakota



photos by Roger Veselay

Nodular Agate

Black Hills
Teepee Canyon Region
South Dakota



Nodular Agate

Black Hills

Townley

South Dakota



photos by Roger Veselay

Nodular Agate

Bubblegum Agate

Railroad Buttes
South Dakota



photos by Roger Vesely

Nodular Agate

Bubblegum Agate

Fairburn
South Dakota



photos by Mel Hixson

Nodular Agate

Chalcedony Nodules

Fairburn
South Dakota



photo by Mel Hixson

Nodular Agate

Dryhead Agate

Near Yellowtail Dam

Pryor Mountains

Montana



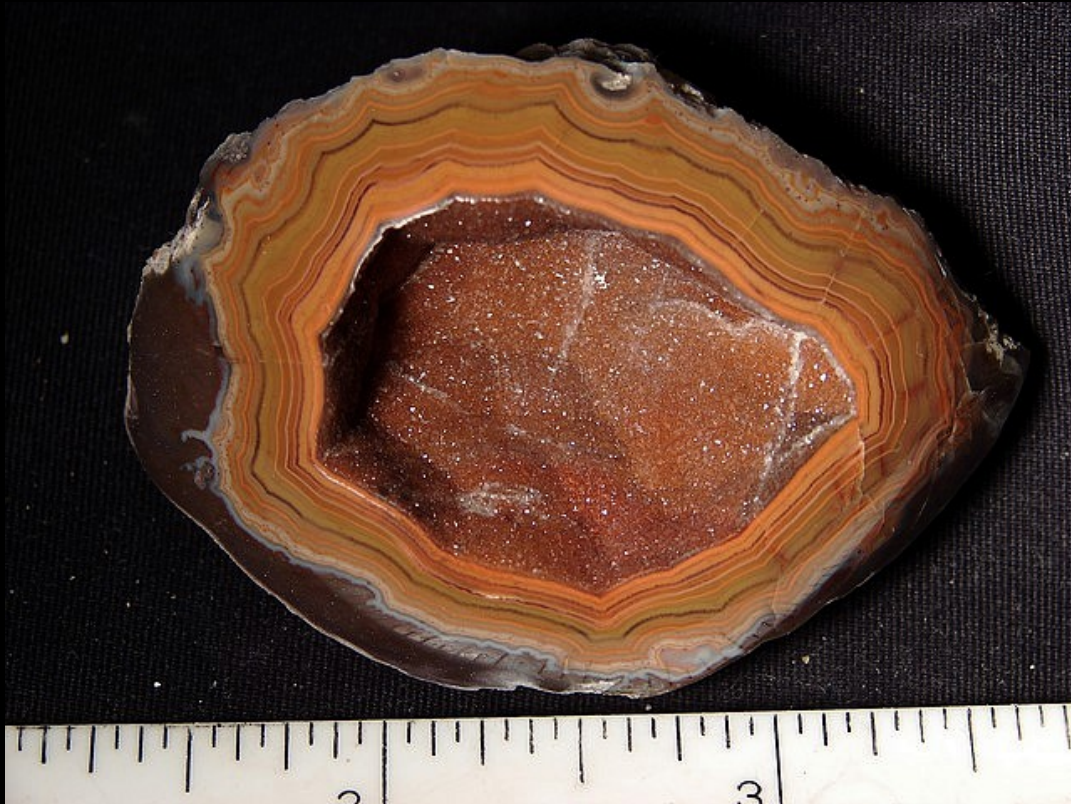
Nodular Agate

Dryhead Agate

Near Yellowtail Dam

Pryor Mountains

Montana



Nodular Agate

Fairburn
Grasslands
South Dakota



Nodular Agate

Fairburn
Grasslands
South Dakota



photos by Don Woodward

Nodular Agate

Fairburn
Grasslands
South Dakota



Nodular Agate

Fairburn
Grasslands
South Dakota



Nodular Agate

Lakers

aka Lake Superior Agate
Minnesota, NW Wisconsin,
Michigan's Upper Peninsula



Nodular Agate

Lakers

aka Lake Superior Agate
Minnesota, NW Wisconsin,
Michigan's Upper Peninsula



Nodular Agate

Lakers

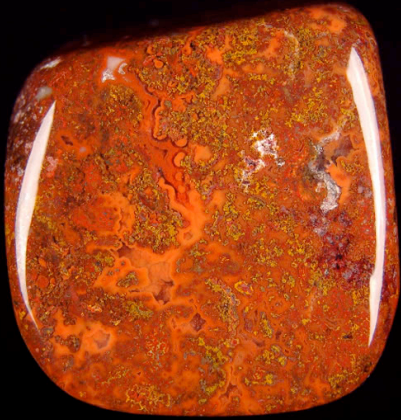
aka Lake Superior Agate
Minnesota, NW Wisconsin,
Michigan's Upper Peninsula



Nodular Agate

Lakers

aka Lake Superior Agate
Minnesota, NW Wisconsin,
Michigan's Upper Peninsula



Nodular Agate

Lakers

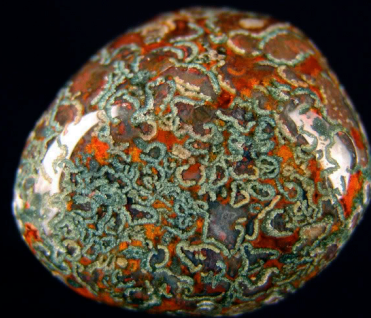
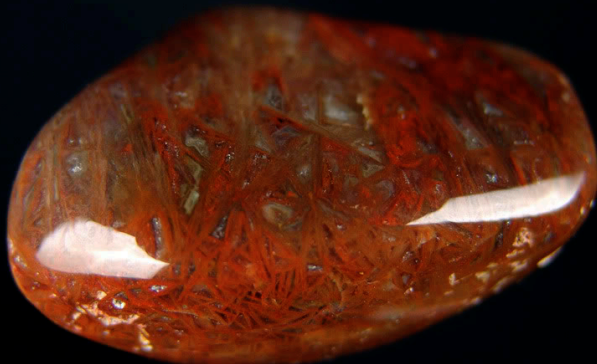
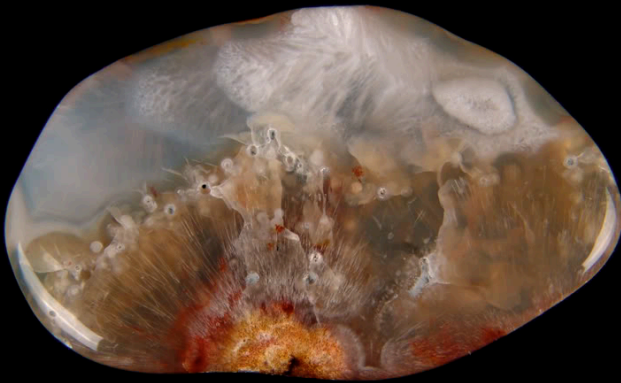
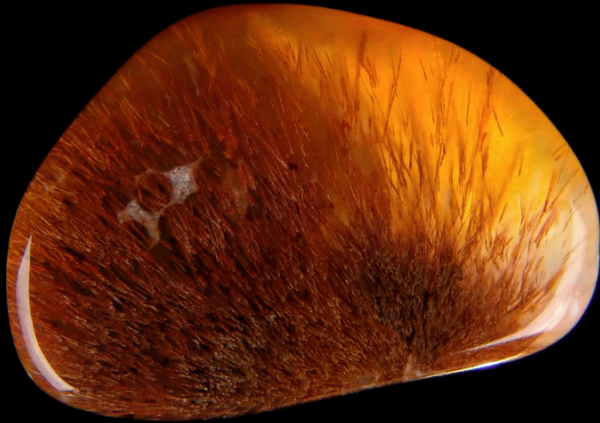
aka Lake Superior Agate
Minnesota, NW Wisconsin,
Michigan's Upper Peninsula



Nodular Agate

Lakers

aka Lake Superior Agate
Minnesota, NW Wisconsin,
Michigan's Upper Peninsula



Nodular Agate

Prairie Agate

Black Hills Area: South Dakota
Northwest Nebraska



Nodular Agate

Union Road Agates

Union Road, St. Louis
Missouri



photo by Teyet Kepling



photo by Brian Sellers



photo by Lowell Foster

Nodular Agate

Vermilion County

Saltfork River
Illinois



photo by Brian Sellers



photo by Teyet Kepling

Nodular Agate

Vermilion County

Saltfork River
Illinois



Section 5 : Dendritic Material

Dendritic Material

- 79 - Cedar Rim - Wyoming
- 80 - Dry Creek - Wyoming
- 81 - Medicine Bow - Wyoming
- 82 - Montana Agate - Montana*
- 84 - Quinter - Kansas
- 85 - Sagebrush Jasper - Wyoming
- 86 - Sweetwater Agate - Wyoming

*Note: Montana agates have traditionally been considered a nodular agate, but a recent theory argues that they are limb casts.

Dendritic Material

Cedar Rim
North of Sweetwater
Wyoming



photo by Monte Draper



photos by Mike Schilling

Dendritic Material

Dry Creek
Rattlesnake Mountains
Wyoming



Dendritic Material

Medicine Bow Dendritic Agate

Medicine Bow
Wyoming



photo by Mel Hixson



photo by Ed Orekar

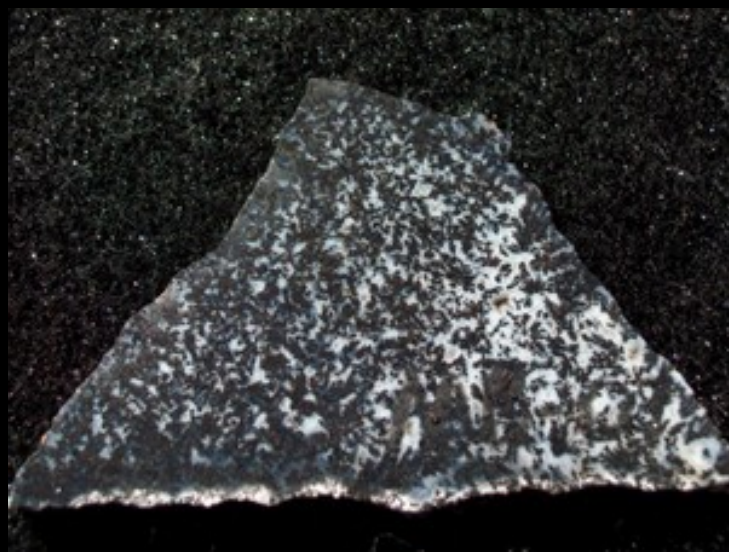


photo by Stoneviews

Dendritic Material

Montana Agate Yellowstone River Montana



photos by Bob Rush



photo by Lowell Foster

Dendritic Material

Montana Agate

Yellowstone River
Montana



Dendritic Material

Quinter
Kansas

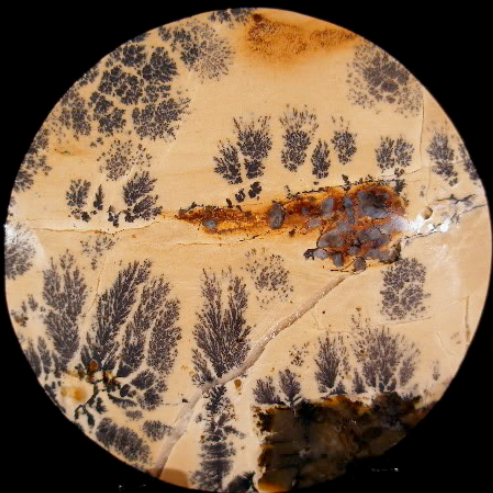


Dendritic Material

Sagebrush Jasper Wyoming



photo by Mel Hixson



photos by Dan Heuer

Dendritic Material

Sweetwater Agate

aka Sage Hen Creek Agate

Sweetwater River

Wyoming



Section 6 : Moss Material

Moss Material

88 - Lysite - Wyoming

90 - Vermilion Co. - Illinois

Moss Material

Lysite Agate

Lysite
Wyoming



photo by Brian Smith



photos by Mel Hixson

Moss Material

Lysite Agate

Lysite
Wyoming

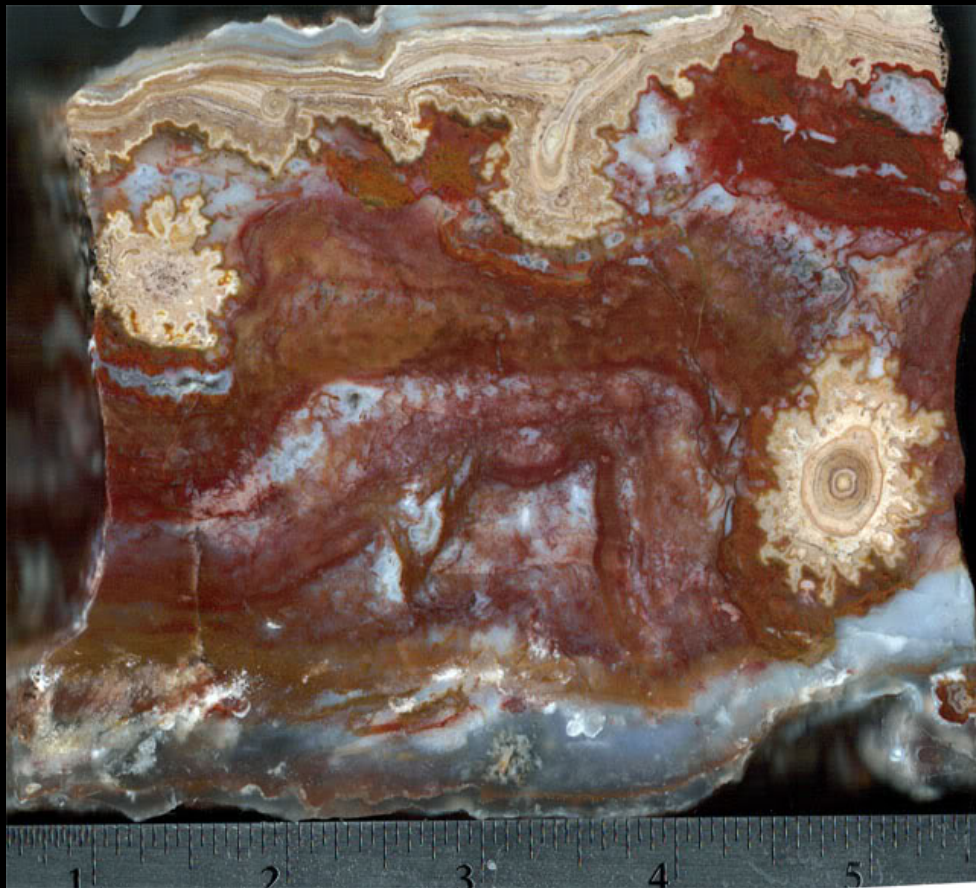


photo by Daniel Bontempo



photo by Monte Draper

Moss Material

Vermilion Co.
Illinois



Section 7: Brecciated Material

Brecciated Material

- 92 - Fluted Jasper - Wyoming
- 93 - Cedar Rim - Wyoming
- 94 - Saltriver Fork - Illinois
- 95 - Stefoinite - Wyoming
- 96 - Youngite - Wyoming

Brecciated Material

Fluted Jasper

Greybull
Wyoming



photo by Jim Brace-Thompson

Brecciated Material

Cedar Rim

Common Opal

Wyoming



Brecciated Material

Saltfork River

Vermillion Co.

Illinois



Brecciated Material

Stefoinite

Wyoming



photo by Mel Hixson



photo by Ed Orekar

Brecciated Material

Youngite

Glenwood Reservoir

Guernsey

Wyoming



photo by Stoneviews



photo by Mel Hixson

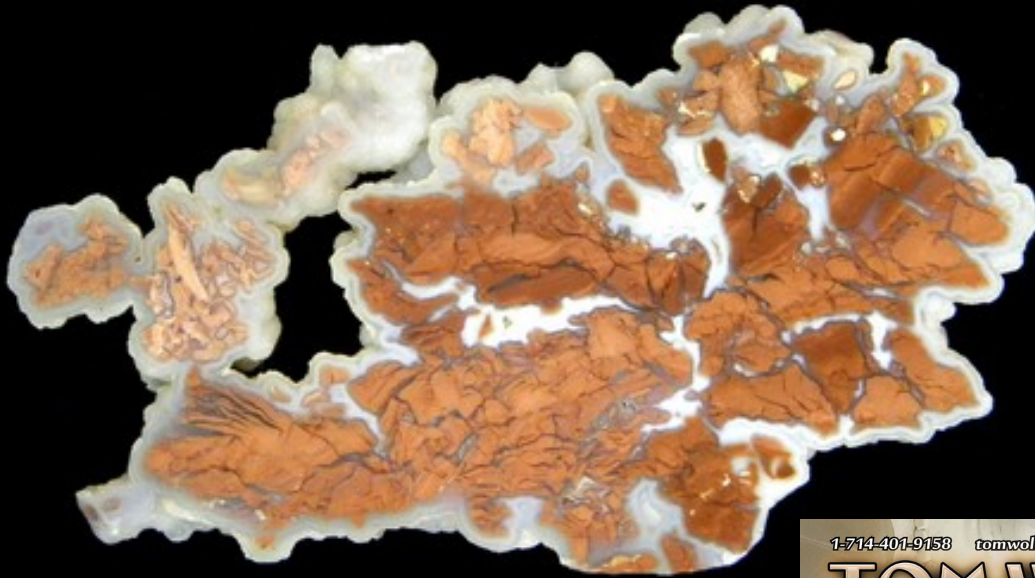
Brecciated Material

Youngite

Glenwood Reservoir

Guernsey

Wyoming



photos by Donnies Treasures

Section 8: Orbicular Material

Orbicular Material

- 99 - Hematite Jasper - Minnesota
- 100 - Ooolitic Chert - Pennsylvania

Orbicular Material

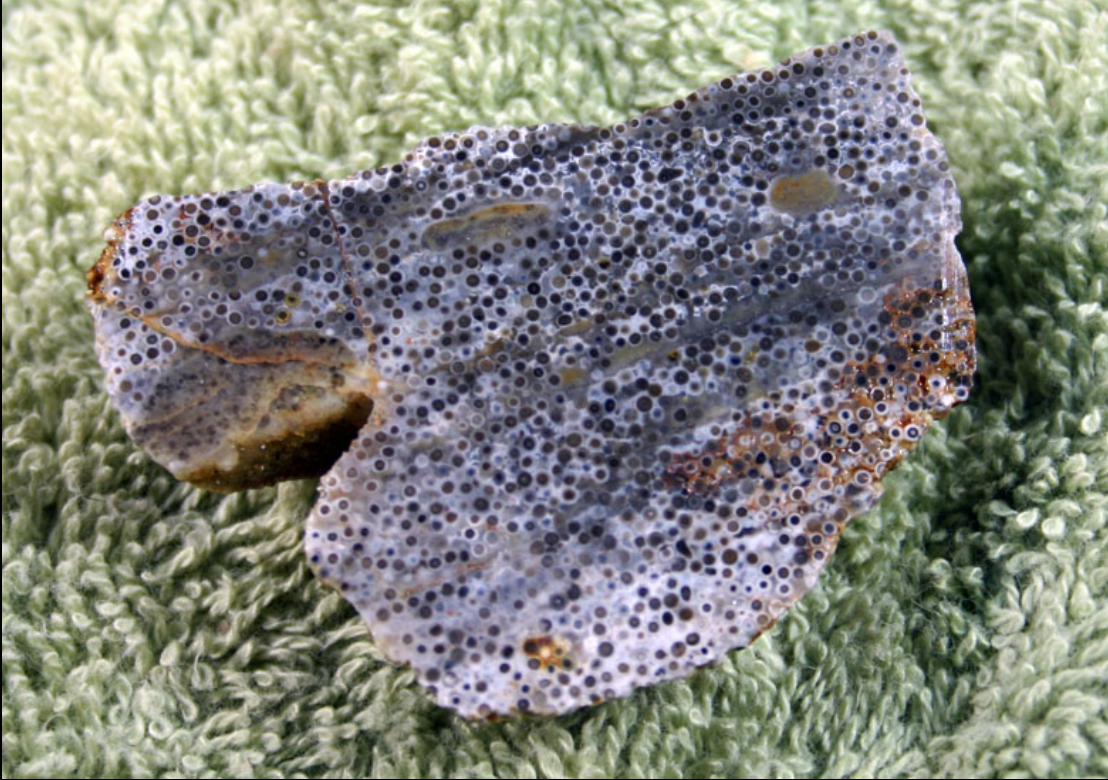
Hematite Jasper Minnesota Shore



Orbicular Material

Oolitic Chert

State College
Pennsylvania



photos by Daniel Bontempo

Section 9: Agate Miscellaneous

Miscellaneous Agate Material

- 102 - Avon - Montana
- 103 - Big Horn River - Wyoming
- 104 - Blue Flame - Wyoming
- 105 - Casper Mountain - Wyoming
- 106 - Greybull - Wyoming
- 107 - Honey Agate - Wyoming
- 108 - Marshall Road Agate - Wyoming
- 109 - Missouri Lace - Missouri
- 110 - Nebraska Blue - Nebraska
- 112 - Sand Draw - Wyoming
- 113 - Vermilion County - Illinois
- 115 - Wind River - Wyoming

Agate Miscellaneous

Avon
Montana



Agate Miscellaneous

Big Horn River

Greybull to Basin

Wyoming



Agate Miscellaneous

Blue Flame

Unspecified Location
Wyoming



Agate Miscellaneous

Casper Mountain Wyoming



Agate Miscellaneous

Greybull
Wyoming



Agate Miscellaneous

Honey Agate Shirley Rim, Wyoming



Agate Miscellaneous

Marshall Road Agate

Shirley Rim
Wyoming



photos by Mike Schilling

Agate Miscellaneous

Missouri Lace

Washington Co.

Missouri

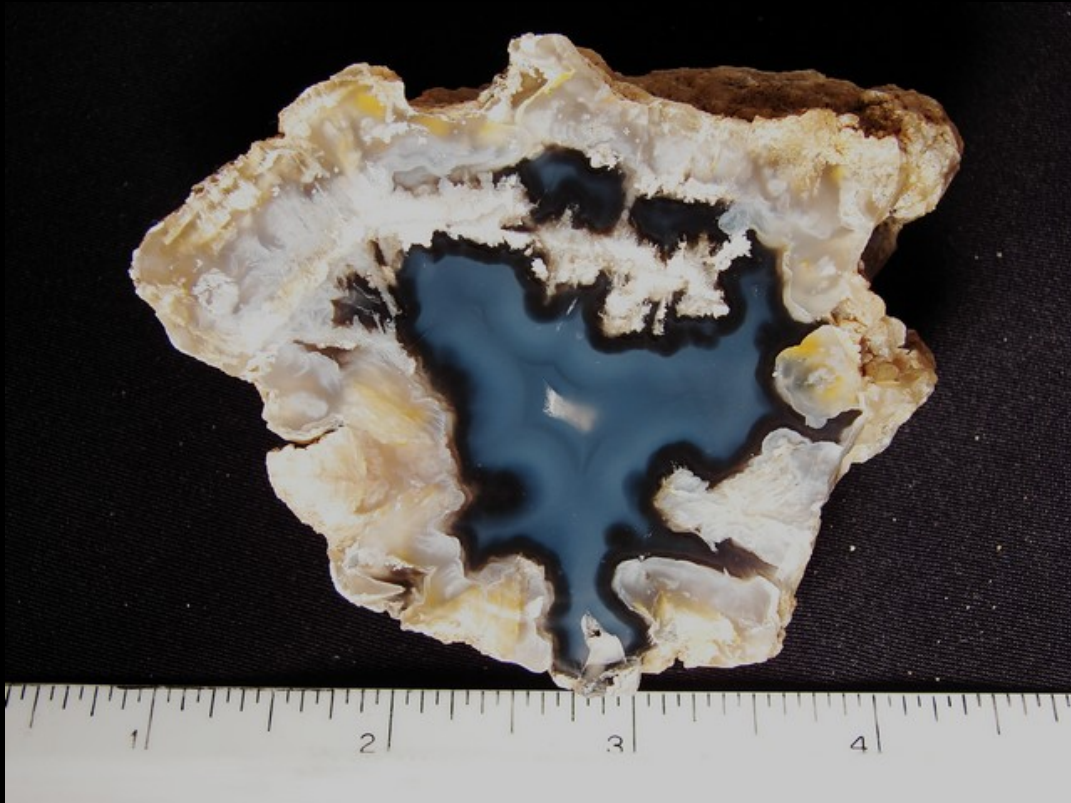


photos by Brian Sellers

photo by Mark Boche

Agate Miscellaneous

Nebraska Blue Northwest Nebraska



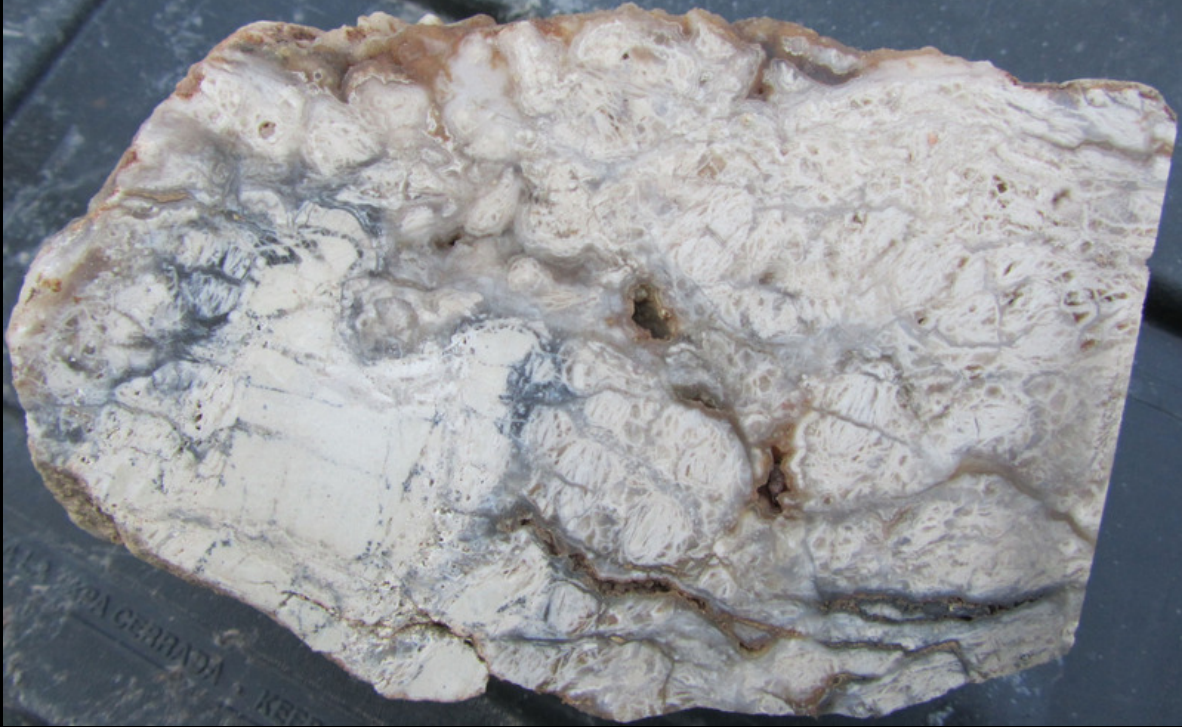
Agate Miscellaneous

Nebraska Blue
Northwest Nebraska



Agate Miscellaneous

Sand Draw Lace Agate Wyoming



Agate Miscellaneous

Vermilion Co.
Illinois



Agate Miscellaneous

Vermilion Co.
Illinois



Agate Miscellaneous

Wind River Wyoming



Section 10: Jasper Miscellaneous

Miscellaneous Jasper Material

117 - Jaspelite - Minnesota/Michigan

118 - Mary Ellen Jasper - Minnesota

120 - Vermilion County - Illinois

Jasper Miscellaneous

Jaspelite

Iron Range / Minnesota
Upper Penninsula / Michigan



Jasper Miscellaneous

Mary Ellen Jasper

Mary Ellen Mine

Biwibik,

St. Louis Co. Minnesota



photo by Daniel Bontempo



photo by Dan Heuer



photo by Steve Haynes

Jasper Miscellaneous

Mary Ellen Jasper

Mary Ellen Mine
Biwibik,
St. Louis Co. Minnesota



Jasper Miscellaneous

Vermilion Co.
Illinois



Section 11: Other Quartz Material

Other Quartz Material

Chert

122 - Casper Mountain - Wyoming

123 - Mozarkite - Missouri

124 - Vermilion County - Illinois

Flint

125 - Flint Ridge - Ohio

Onyx

127 - Granite and Rattlesnake Mtns - Wyoming

Chert

Casper Mountain
Wyoming



photo by Mike Schilling

Chert

Mozarkite

Lincoln
Missouri



photo by Jamie Colee



photos by Brian Sellers

Chert

Vermilion Co.
Illinois



Flint

Flint Ridge

Newark
Ohio



photo by Brian Sellers



photos by Mel Hixson

Flint

Flint Ridge
Nethers Farm
Ohio



Onyx

Granite & Rattlesnake Mountains Wyoming



Section 12: Peripheral Material

Peripheral Material

129 - Jade - Wyoming

131 - Jade, Snowflake - Wyoming

132 - Mudstone - Vermilion County - Illinois

133 - Serpentine - Vermilion County - Illinois

Peripheral Material

Jade
Wyoming



Peripheral Material

Jade Wyoming



photo by Daniel Bontempo



photo by Mike Schilling

Peripheral Material

Jade - Snowflake

Wyoming



photos by Mike Schilling

Peripheral Material

Mudstone
Vermilion Co.
Illinois



Peripheral Material

Serpentine

Vermilion Co.

Illinois



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Contributor Index

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Bontempo, Daniel - 84, 89, 118, 126, 130,
Brace-Thompson, Jim - 92,
Brown, Jim - 106,
Colee, Jamie - 40, 123
Corrigan, Tom - 44, 102,
Donnie's Treasures - 97,
Draper, Monte - 20, 29, 79, 89, 93, 112, 115,
Foster, Lowell - 48, 75, 82,
Haynes, Steve - 34, 68-73, 99, 117-118,
Heuer, Dan - 85, 118,
Hixson, Mel - 30, 54, 60-61, 74, 81, 85, 88, 95-96, 103, 119, 125,
Holmes, Steve - 30, 39, 48, 55,
Idaho Rock Shop - 104,
Kepling, Teyet - 23-25, 31-33, 35-38, 42, 75-76, 90, 94, 113-114, 120, 124, 132-133
Orekar, Ed - 81, 95, 100,
Price, Charles - 45,
Rix, David - 46,
Rush, Bob - 82,
Schilling, Mike - 16, 19, 28, 79-80, 86, 105, 107-108, 122, 127, 129-131,
Sellers, Brian - 75-76, 83, 109, 123, 125,
Smith, Brian - 88,
Speers, Steven - 7-13, 18, 21,
Stoneviews - 81, 96,
Tom Wolfe Minerals - 14, 17-18, 22, 26, 75, 97,
Vesely, Roger - 49-53, 55-59, 64,
Wise, Ron - 6,
Woodward, Don - 50, 65-66,

Location Index

Illinois Locations

- Saltfork River - 23-25, 31, 33, 94
- Vermilion County - 23-25, 31-33, 35-38, 42, 76-77, 90, 94, 113-114, 120, 124, 132-133

Kansas Locations

- Quinter - 84

Ohio Locations

- Belmont County - 22
- Flint Ridge - 125-126
- Nethers Farm - 126
- Newark - 125

Michigan Locations

- Keweenaw - 46
- Lake Superior - 46
- Unspecified - 68-73
- Upper Peninsula - 117

Minnesota Locations

- Biwibik - 118-119
- Iron Range - 117
- Mary Ellen Mine - 118-119
- St. Louis County - 118-119
- Unspecified - 34, 68-73, 99

Missouri Locations

- Lincoln - 123
- St. Louis - 75
- Union Road - 75
- Washington County - 109

Montana Locations

- Avon - 44, 102
- Bear Canyon - 48
- Pryor Mountains - 48, 62-63
- Yellowstone River - 82-83
- Yellowtail Dam - 62-63

Nebraska Locations

- Northwest - 74, 110-111

Pennsylvania Locations

- State College - 100

Location Index

South Dakota Locations

- Black Hills - 49-58, 74
- Fairburn - 60-61, 64-67
- Fall River County - 26
- Grasslands - 64-67
- Oelrichs - 50
- Pringle - 51-52
- Railway Buttes - 59
- Scenic - 53
- Teepee Canyon - 54-57
- Townley - 58
- Unspecified - 27

Wisconsin Locations

- Northwest - 68-73

Wyoming Location

- Absaroka Mountains - 28
- Big Horn River - 103
- Big Sandy - 6
- Blue Forest - 7-9
- Casper Mountain - 105, 122
- Cedar Rim - 79, 93
- Cody - 45
- Delany's Rim - 30, 39-40,
- Dry Creek - 80
- Dubois - 28

- Eden Valley - 10-13, 17
- Farsing - 14
- Glenwood Reservoir - 96-97
- Granite Mountains - 127
- Greybull - 92, 106
- Guernsey - 96-97
- Lysite - 88-89
- Marshall Road - 108
- Medicine Bow - 81
- Parnel Canyon - 15
- Rattlesnake Mountains - 80, 127
- Sage Hen Creek - 86
- Sand Draw - 112
- Shirley Rim - 16, 107-108,
- Sweetwater - 79, 86
- Sweetwater County - 15, 17
- Sweetwater River - 86
- Tom Miner - 18
- Unspecified - 21, 85, 95, 104, 129-131
- Wamsutter - 30, 39-40,
- Wiggins Fork - 19
- Wind River - 20, 29, 115

Name Index

Common and Trade Names

- Acrocyathus - 32
- Actinostroma - 38
- Bead Chain Coral - 33-34
- Bear Canyon Agate - 48
- Blue Forest - 7-9
- Bubblegum Agate - 59-60
- Chain Coral - 33-34
- Dryhead Agate - 62-63
- Fairburn Agate - 64-67
- Flint Ridge - 125-126
- Fluted Jasper - 92
- Honey Agate - 107
- Jaspelite - 117
- Lakers - 68-73
- Lake Superior Agate - 68-73
- Lysite - 88-89
- Marshall Road Agate - 108
- Mary Ellen Jasper - 118-119
- Medicine Bow Agate - 81
- Missouri Lace - 109
- Mozarkite - 123
- Montana Agate - 82-83
- Nebraska Blue - 110-111
- Porifera - 38
- Prairie Agate - 74
- Psaronius Fern - 23-25
- 172
- Sagebrush Jasper - 85
- Snowflake Jade - 131
- Stefoinite - 95
- Sweetwater Agate - 86
- Syringopora - 35
- Teepee Canyon Agate - 54
- Turitella Agate - 39-40
- Tom Miner - 18
- Union Road Agates - 75
- Youngite - 96-97

Additional Publications

2012 American Agate - Jasper Index

Volume 1: Southwest -- Arizona, New Mexico, Colorado, Utah

Volume 2: Northwest -- Washington, Oregon, Idaho, Nevada,
Alaska

Volume 3: California

Volume 4: Northern States -- Montana, Wyoming, South
Dakota, Nebraska, Minnesota, Wisconsin, Kansas,
Missouri, Illinois, Ohio, Michigan, Pennsylvania

Volume 5: Southern States -- Pending

Volume 6: Glossary and Series Index -- Pending

ARTISTS OF AGATE Portfolios

The idea for the Artists of Agate series of portfolios originated with the work being done on the Agate/Jasper Index. There are so many wonderful artisans and photographers who offered their work to the Index. Unfortunately these people shared many more photos than I could use. Producing a portfolio of their work for free downloading seemed to be a way of showcasing more of their incredible shots without the limitations of the database's goal. It also permitted the publication of images of international material that falls outside the Database's boundaries.

These portfolios are produced with the permission and aid of the featured artist. They hold all rights to the photos contained within their respective portfolios.

Lowell Foster

Lakers and other Pieces from the North
by Steve Haynes

Rare Earths and other Alien Landscapes
by Dan Heuer

The Lapidary Alphabet
by Dan Heuer

Brazilians and other Oversized Creations
by Bob Rush

Final Word

This series is considered to be a 'living' document, one that will expand and become more complete as additional rockhounds volunteer images of their collections for our use. Updates will be made and the date of the the last change will be posted on this page. Please go to *Rock Tumbling Hobby* at <http://andy321.proboards.com/index.cgi?board=ccabs&action=display&thread=39253> for updates and new information.

Future volumes, already begun, will focus on other regions of the United States. Volume 5/2012 will list material from states in the South. The final index, Volume 6, will act as a visual glossary of agate and jasper terms, include man-made material, as well as provide an index that will cover the entirety of the series.

We thank everyone who has helped, will help, or supports this endeavor. Please spread the word about this project. We are hoping more collectors across the United States will participate. If you have images of material to add to this index or suggestions on how this index could be improved, please e-mail them to lowelfos@yahoo.com. Please know, as this is a hobby activity, and we are not always working on the index, we may not respond immediately.

Sincerely,

Index Editor, Lowell Foster
Assistant Editor, Mel Hixson

2012 Volume 4 - Northern States

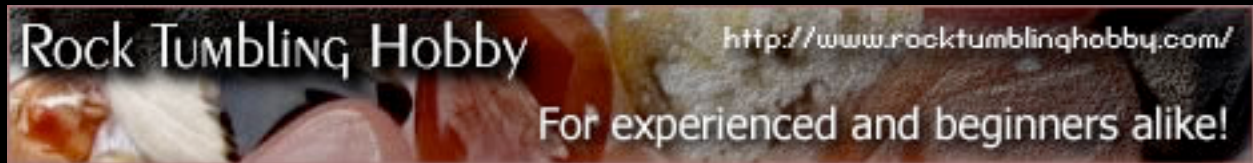
August 6, 2013

(Note: States were designated "Northern" using information
on the US Census Bureau website)

A Note of Explanation

We are aware many of the illustrated materials are not actually agate or jasper, but because lapidaries are accustomed to encountering materials identified by common or trade names rather than an actual scientific identification, for the purposes of this index, all quartz lapidary materials will be included and identified by commonly used names when available.

Appreciations



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Appreciations



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