

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



Volume 2 : Northern States  
Wyoming - Montana

# Table of Contents

## Section 1: Wyoming

### *Fossil Material*

Coprolites

Turritella Agate

Stromatolites

Petrified Wood

-Blue Forest

-Eden Valley

-Shirley Basin

-Wiggins Fork

-Absaroka Mountains

### *Dendritic Material*

Sweetwater Agate

Medicine Bow

Cedar Rim Agate

Sagebrush Jasper

### *Moss Material*

Lysite Agate

### *Brecciated Material*

Stefoinite

Youngite

### *Agate - Miscellaneous*

Honey Agate

Glenrock Geodes

Iris Agate

Marshall Road Agate

Banded Onyx

### *Jasper - Miscellaneous*

Casper Mountain

Jade Field Jaspers

### *Peripheral Material*

Jade

# Coprolites

Cody  
reputed coprolite



photo by chasfire



# Agatized Fossils

## Turritella Agate

Delaney's Rim

Wamsutter



photos by Mel Hixson



# Agatized Fossils

## Stromatolite

Delaney's Rim  
Wamsutter



photo by Steve Holmes

With Wood



photo by Steve Holmes



photo by Mel Hixson

# Agatized Fossils

## Stromatolite

Delaney's Rim

Wamsutter



photo by Mel Hixson



# Petrified Wood

## Blue Forest



photo by Mel Hixson



# Petrified Wood

## Eden Valley



# Petrified Wood

## Shirley Rim





# Petrified Wood

## Wiggins Fork



photos by Mike Schilling





# Petrified Wood

## Absaroka Mountains north of Dubois

Fully agatized limb casts. Many contain opal.  
Site closed.



# Dendritic Material

## Sweetwater Agate

(aka Sage Hen Creek Agate)

Sweetwater River, near Jeffery City

Most fluoresce pale green under UV light



Some show uranium traces





# Dendritic Material

## Medicine Bow Dendritic Agate

Manganese mining district  
north of Medicine Bow



photo by Mel Hixson



# Dendritic Material

## Cedar Rim Dendritic Agate north of Sweetwater Station



# Dendritic Material

Sagebrush Dendritic Jasper  
(aka South Pass Dendritic Jasper)  
(aka Mosquito Agate)  
South Pass



photo by Mel Hixson

Similar Material from  
Dry Creek, SW of Rattlesnake Mountains



photo by Mike Schilling



# Moss Material

## Lysite Agate

Lysite



# Moss Material



photos by Mel Hixson





# Brecciated Material

## Stefoinite

exact location unknown  
(Green River Basin?)



photo by Mel Hixson

# Brecciated Material

## Youngite

Near Glenwood Reservoir, Guernsey

(site now closed)

Fluoresces very bright green



Photo by Mel Hixson



Photo by Mike Schilling



Photo by Mel Hixson



# Agate - Miscellaneous Forms

## Casper Mountain Red Agate

Casper Mountain  
(more like jasper or chert)



# Agate - Miscellaneous Forms

## Honey Agate

Shirley Rim



photo by Steve Schilling



# Agate - Miscellaneous Forms

## Glenrock (limestone geodes)



# Agate - Miscellaneous Forms

## Iris Agate

Gravel beds of Wind River  
near Riverton



photo by Steve Schilling



# Agate - Miscellaneous Forms

Marshall Road Agate  
Marshall Road, Shirley Rim



photos by Steve Schilling

# Agate - Miscellaneous Forms

## Banded Onyx

Granite and Rattlesnake Mountains



photos by Steve Schilling



# Jasper - Miscellaneous Forms

## Casper Mountain Marbled Jasper

Silicified Dolomite

(nearly identical to Alibates Chert from Texas)



photos by Steve Schilling

# Jasper - Miscellaneous Forms

## Jade Field Jaspers Central Wyoming



photos by Steve Schilling





# Peripheral Material

## Wyoming Jade



# Table of Contents

## Section 2: Montana

*Nodular Agate*

Bear Canyon Agate

Dryhead Agate

*Dendritic Material*

Montana Agate



# Nodular Agate

## Bear Canyon Agate



# Nodular Agate

## Dryhead Agate

Pryor Mountains near Yellowtail Dam

(location currently closed)



photo by Steve Holmes



photos by Mel Hixson





# Dendritic Material

## Montana Agate gravels of Yellowstone River



photos by Mike Schilling



photo by Lowell Foster

# Contributors

## Vol. 1: Wyoming and Montana

Steve Schilling

Mel Hixson

Steve Holmes

wyobrian

chasfire

Lowell Foster

## Other Volumes Available

Volume 1: Mountain States - Utah & Colorado

[http://www.4shared.com/file/221879833/810dc669/Agate\\_Index\\_Vol\\_1.html?](http://www.4shared.com/file/221879833/810dc669/Agate_Index_Vol_1.html?)

## 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 name rather than an actual scientific identification, for the purposes of this index, all quartz lapidary materials will be included and identified by commonly used name when available.



# Final Word

The American Agate - Jasper Index is being produced to fill a large gap in the comprehensive coverage of agates and jaspers in the United States. The intention of this series of volumes is to provide agate and jasper collectors a tool for identifying unknown material they encounter.

The American Agate - Jasper Index is produced through the cooperation of rockhounds across the United States. This database is compiled through images and information freely provided to the editors of this index. Credit for submitted material is given in the final document if desired. As it is a free database, copying and distributing is allowed, but for no reason should this work, or any of the other volumes, be offered up for sale at any price. This database is meant to be a free reference work.

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 to be added. 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> for additional information.

The editors of this project are planning on producing in the future a white-background version to allow easier printing. Traditional indexes are also being prepared to be added at the end of each volume. These will include locations, alternative names, and associated material.

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* initiated the conversation that set the spark for this project, and his contribution to the first Volume helped us maintain our excitement that this crazy idea might work.

Sincerely,

Lowell Foster  
Mel Hixson

Last Update: Volume 1: February 15, 2010

**Blank**