Biochar 2009-Present
Business Perspective

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10/13/13
Introduction

The following data is from my personal experience and in some cases are estimates.

Slides 1-5 broad business generalizations
Slides 6-10 hard rock mine reclamation
Questions
<table>
<thead>
<tr>
<th>Year</th>
<th>Working Focus</th>
<th>Action of Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>Information / Education</td>
<td>USBI Conference and Network Formation</td>
</tr>
<tr>
<td>2010</td>
<td>Equipment Material Research</td>
<td>Material Production Advancements</td>
</tr>
<tr>
<td>2011</td>
<td>Equipment Sales &amp; Application Research</td>
<td>Larger Than Lab Applications</td>
</tr>
<tr>
<td>2012</td>
<td>Post Process Handling</td>
<td>Delivery Of &quot;more&quot; Advanced Materials</td>
</tr>
<tr>
<td>2013</td>
<td>Material Sales and Applications Research</td>
<td>**</td>
</tr>
</tbody>
</table>
# Material Sales By Year

**BIOCHAR MATERIAL SALES** -- All figures are estimates and only from J. Levine sales

<table>
<thead>
<tr>
<th>Time</th>
<th>Annual Transactions</th>
<th>Buying Group Type by %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calendar Year</td>
<td>Mass (tons)</td>
<td>Government</td>
</tr>
<tr>
<td>2008</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>2009</td>
<td>5</td>
<td>40</td>
</tr>
<tr>
<td>2010</td>
<td>40</td>
<td>32.5</td>
</tr>
<tr>
<td>2011</td>
<td>135</td>
<td>25</td>
</tr>
<tr>
<td>2012</td>
<td>405</td>
<td>22.5</td>
</tr>
<tr>
<td>2013</td>
<td>1215</td>
<td>30</td>
</tr>
</tbody>
</table>

**Mass (tons)**

![Mass (tons) Graph](graph.png)
Biochar Research Into Business

10/13/13 – “Biochar” search term in published references – 10,500 hits

YEAR: HITS
2013: 2844** linear extrapolation forward for full year from 10/13/13
2012: 2310
2011: 2070
2010: 1370
2009: 700
All previous Years 1680

Academic Publications Per Year

0 500 1000 1500 2000 2500 3000
2008 2009 2010 2011 2012 2013 2014

Publications
Hope Mine 1910-1920
Before Oct 2010
Hope Mine Before and After

FOR 60 YEARS IT LOOKED LIKE THIS...

July 2010

NOW IT LOOKS LIKE THIS

August 2011

www.biochipnetwork.com ©
Post Hope Mine Projects

- Joe John – San Juans 5 acre Re-vegetation Site
- San Juan Drain Adit Water Treatment 501 C3
- Boston/Lightner Mine – Government / Private
- 1 Acre West Slope Gas Pad – Private Business
- Butterfly Mine - Government
- Doctor Mine – 501 C3
Questions?

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