



University of
Massachusetts
Amherst

Biochar Business Development

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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

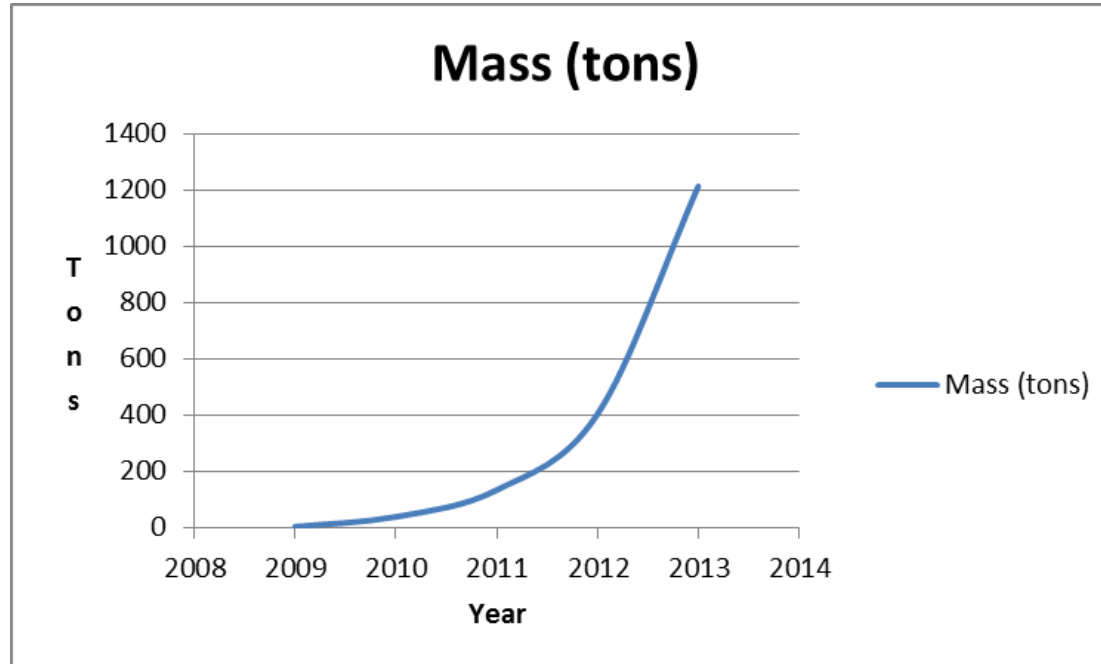
Questions

Working Focus By Year

Year	Working Focus	Action of Note
2009	Information / Education	USBI Conference and Network Formation
2010	Equipment Material Research	Material Production Advancements
2011	Equipment Sales & Application Research	Larger Than Lab Applications
2012	Post Process Handling	Delivery Of "more" Advanced Materials
2013	Material Sales and Applications Research	**

Material Sales By Year

BIOCHAR MATERIAL SALES -- All figures are estimates and only from J. Levine sales						
Time	Annual Transactions	Buying Group Type by %				
Calendar Year	Mass (tons)	Government	University	Non-Profit	For Profit	Comment
2008	NA	NA	NA	NA	NA	No Data
2009	5	40	40	10	10	
2010	40	32.5	32.5	10	25	
2011	135	25	25	10	40	
2012	405	22.5	22.5	5	50	
2013	1215	30	10	5	55	Projected



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

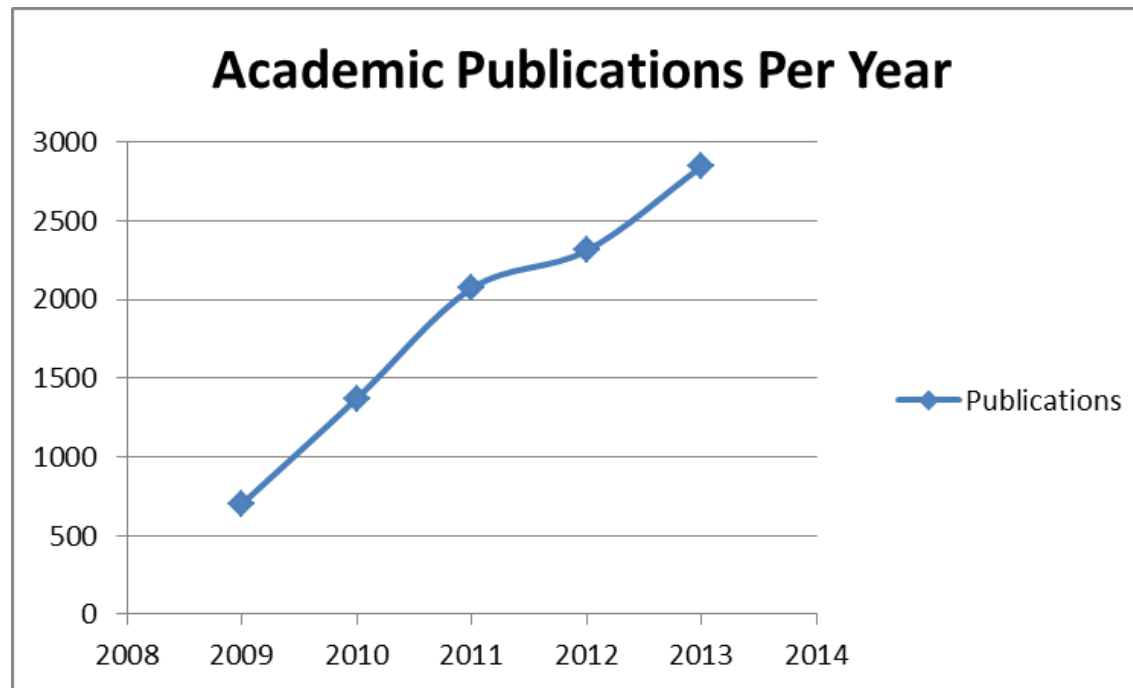
2012: 2310

2011: 2070

2010: 1370

2009: 700

All previous Years 1680



Hope Mine 1910-1920



Before Oct 2010



Hope Mine Before and After



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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