

MACCY BIOCHAR MEMBER BULLETIN

No. 14 - November 2020

Auspiced by the Macclesfield Community Association Inc.

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HELLO ALL.

Welcome to our 14th Member Bulletin.

We have now reached the end of our 2020 biochar season and we can congratulate ourselves on reaching a new milestone of nearly 10 tonnes of CO2 captured. **A great result!** But only made possible by:

- All our volunteer workers who have given their time and petrol to collecting wood and making biochar.
- Jacqui and Greg Godings, whose property we have again used for our wood storage and production.
- David Blows and his sons Ben and Hugo who have worked with us at their Davis Road vineyard, Springdale, to convert their waste vine-wood into biochar.
- Mount Barker Council with their on-going support and encouragement.
- Regional Development Australia (Strathalbyn office) with their on-going support.
- Macclesfield Community Association auspicing our group and providing accounting and banking services.
- All our members helping to make this initiative happen and grow.

This Bulletin summarises our biochar production for the year and also provides details of each job carried out by our volunteers.



MOUNT BARKER
DISTRICT COUNCIL

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BIOCHAR PRODUCTION SUMMARY – 2020

MACCYBIOCHAR SCOREBOARD at 25/11/2020				
YEAR	2019 *	2020**	TOTAL	Units
BIOCHAR PRODUCED	1720	18451	20171	Litres
CARBON CAPTURED	222	2388	2610	Kg
NET CO2 CAPTURED	0.775	8.042	8.817	Tonnes
ELECTRICITY OFFSET or PETROL OFFSET	1.520 352	15.769 3655	17.289 3951	MWHr Litres
* Re-calculated based on 3rd party biochar analysis dated 19/4/20				
** Includes 3180L from members.				

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JOB DETAILS – 2020

JOB NO.	DATE	Job Type	Volunteer Hours	CO2 EMITTED (kg)	BIOCHAR VOL (L)	CARBON CAPTURED (kg)	NET CO2 CAPTURED (kg)	KWHR OFFSET	Location	Product Ser. No.
9	14/04/2020	Wood coll'n	16.00	17.37	0	0.00	0.00	0	Macclesfield	N/A
10	24/04/2020	Wood coll'n	6.16	3.20	0	0.00	0.00	0	"	"
11	28/04/2020	Wood coll'n	7.50	19.36	0	0.00	0.00	0	"	"
12	6/05/2020	Production	15.00	14.52	600	77.64	229.77	451	Godings	BB-002
13	8/05/2020	Wood coll'n	8.00	35.42	0	0.00	0.00	0	Echunga	N/A
14	13/05/2020	Production	21.86	23.10	1135	146.87	479.13	939	Godings	BB-2/3
15	19/05/2020	Production	13.25	19.80	770	99.64	344.95	676	Godings	BB-3/4
16	26/05/2020	Wood coll'n	13	13.50	0	0.00	0.00	0	Macclesfield	N/A
17	28/05/2020	Production	11	8.60	900	116.46	404.23	793	Godings	BB-4/5
18	5/06/2020	Wood coll'n	26	34.00	0	0.00	0.00	0	Macclesfield	N/A
19	12/06/2020	Wood coll'n	8.7	27.50	0	0.00	0.00	0	Macclesfield	N/A
20	18/06/2020	Production	15.85	20.13	850	109.99	321.02	629	Godings	BB-5/6
21	24/06/2020	Production	17	22.22	525	67.94	226.47	444	Godings	BB6
22	29/06/2020	Wood coll'n	8	10.12	0	0.00	0.00	0	Macclesfield	N/A
23	30/06/2020	Production	15.6	20.80	650	84.11	276.99	543	Godings	BB6/BB7
24	6/07/2020	Wood	13.8	15.18	0	0.00	0.00	0	Macclesfield	N/A

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25	8/07/2020	coll'n Production Wood	15.4	14.52					Godings	
26	15/07/2020	coll'n	2	3.30	0	0.00	0.00	0	Macclesfield	N/A
27	15/07/2020	Production Wood	10.5	11.22	1088	140.79	471.17	924	Godings	BB7/BB8
28	22/07/2020	coll'n	7.75	11.22	0	0.00	0.00	0	Macclesfield	N/A
29	24/07/2020	Production	10	11.22					Godings	
30	25/07/2020	Workshop Wood	9	35.20	130	16.82	26.38	52	Goolwa	N/A
31A	28/07/2020	coll'n Wood	12	13.86	0	0.00	0.00	0	Macclesfield	N/A
31B	29/07/2020	coll'n	3.5	3.30	0	0.00	0.00	0	Macclesfield	N/A
31	29/07/2020	Production	13	15.84	1387	179.48	589.04	1155	Godings	BB8/BB9
32	3/08/2020	Production Wood	11.5	13.20					Godings	
33A	5/08/2020	coll'n	7.5	11.55	0	0.00	0.00	0	Macclesfield	N/A
33	5/08/2020	Production Wood	10.5	10.56	1125	145.58	497.60	976	Godings	BB9/BB10
34A	14/08/2020	coll'n Wood	14	25.52	0	0.00	0.00	0	Macclesfield	
34B	24/08/2020	coll'n	10	14.52	0	0.00	0.00	0	Macclesfield	
34	26/08/2020	Production Wood	14.75	18.26					Godings	
35A	31/08/2020	coll'n Wood	5	14.85	0	0.00	0.00	0	Macclesfield	
35B	8/09/2020	coll'n	6	6.60	0	0.00	0.00	0	Macclesfield	
35	9/09/2020	Production	7	5.28	990	128.11	383.93	753	Godings	BB10/BB11

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36	14/09/2020	Production	12.25	11.22	375	48.53	166.42	326	Godings	BB11
37	18/09/2020	Production	12.4	11.88	323	41.80	141.13	277	Godings	BB11
38A	21/09/2020	Wood coll'n	5	0.80	0	0.00	0.00	0	Macclesfield	
38	22/09/2020	Production	9.24	11.22	100	12.94	35.35	69	Godings	BHS
39	28/09/2020	Production	26.3	16.50	938	121.38	427.83	839	Godings	BB12
40	2/10/2020	Production	6	2.18	200	25.88	92.56	181	Springdale	
41	6/10/2020	Production	21	20.46					Godings Victor	
42	10/10/2020	Workshop	8	51.48	100	12.94	-4.11	-8	Harbor	N/A
43	13/10/2020	Production	9	1.70	270	34.94	126.20	247	Springdale	
44	20/10/2020	Production	8	11.22	860	111.28	396.16	777	Godings	BB13
45A	24/10/2020	Wood coll'n	12	1.80					Macclesfield	
45B	27/10/2020	Wood coll'n	3	1.20					Macclesfield	
45	28/10/2020	Production	10.65	2.90	800	103.52	373.06	731	Springdale	
46A	2/11/2020	Wood coll'n	4.5	1.80					Macclesfield	
46	4/11/2020	Production	19.05	2.40	730	94.46	341.60	670	Springdale	BB14
47	10/11/2020	Cleanup	8.5	11.22					Godings	
48	17/11/2020	Production	5.5	1.05	425	55.00	189.05	371	Springdale	
49	24/11/2020	Cleanup	4	1.70					Springdale	BB15
JOB TOTALS			570.51	707.57	15271	1976.07	6535.92	12815.53		
Member contributions										
Geoff B. - Eucalypt					485	62.76	229.74	450.48		
Kelvin W.-Acacia & Eucalypt					1075	139.11	509.23	998.49		

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Colin D. Springdale - vines & Euc.					120 1500	15.53 194.10	56.84 710.55	111.46 1393.24		
Member totals			0	0	3180	411.49	1506.37	2953.66		
GROUP TOTALS			570.51	707.57	18451	2387.56	8042.29	15769.19		
JOB NO.	DATE	Job Type	Volunteer Hours	CO2 EMITTED (kg)	BIOCHAR VOL (L)	CARBON CAPTURED (kg)	NET CO2 CAPTURED (kg)	KWHR OFFSET	Location	Product Ser. No.

NOTES:

1. CO2 EMITTED is calculated from an estimate of litres of petrol used by volunteers driving to and from the job based on type of vehicle and distance from Macclesfield; and other petrol consumption such as water pump. The emission values are based on 2.2kgCO₂/litre petrol.

2. BIOCHAR VOLUME is calculated based on number of 75 litre bins needed to unpack a kiln. However at Springdale we sometimes used an estimate based on distance from rim of kiln to surface of char.

3. CARBON CAPTURED is calculated from BIOCHAR VOL; 79.4% carbon; and dry bulk density of 163kg/m³.

4. NET CO2 CAPTURED is calculated based on CO₂ being 3.66 times heavier than Carbon; less CO₂ emitted by the job.

5. KWHR OFFSET is calculated based on the current value in SA of electricity generation emissions factor in kgCO₂/KWHr consumed.

SUMMARY:

1. Events:

Total number of job events = 52.

Number of production events = 26.

Number of wood collection events = 22.

Number of other events = 4.

Average number of production events per week (May to November) = 0.86

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2. Volunteer Hours:

Total number of volunteer hours = 570

Number of volunteer hours spent on production = 342

Number of volunteer hours spent on wood collection = 207

3. CO2 emissions:

Total CO2 emissions from job = 708kg

CO2 emissions from production = 322kg

CO2 emissions from wood collection = 286kg

4. Biochar production:

Total biochar production = 18451 litres

Job production = 15271

litres

Member's private production = 3180

litres

5. Net CO2 captured:

Total net CO2 captured = 8 tonnes

8042 kgCO2 was averted by 18451 litres of biochar

i.e. 1 kg CO2 was averted for every 2.3 litres of biochar

i.e. Every 100 litres of biochar captured about 44 kg CO2.

Brian Lewis

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MACCY BIOCHAR 2020 JOB CAMPAIGN



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