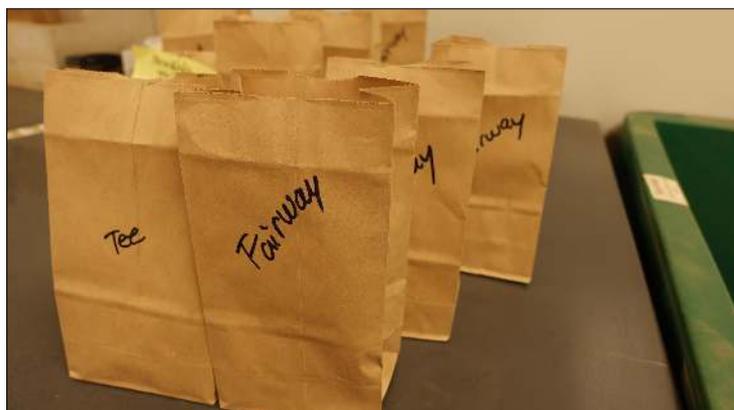
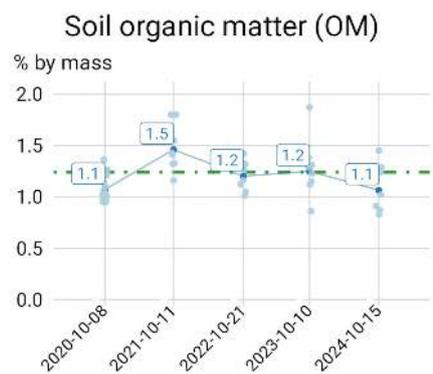
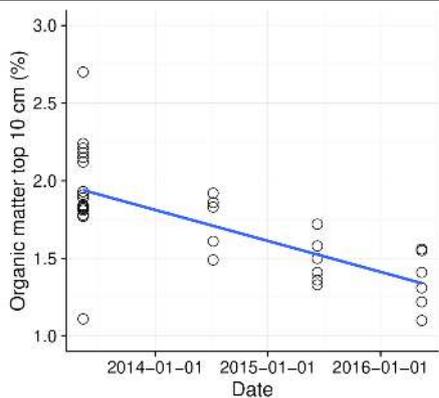


# About the OM246 test







**2016 Study Review**

**Objectives**

- 1. To determine the effect of substrate on the growth of the fungus.
- 2. To determine the effect of substrate on the growth of the fungus.
- 3. To determine the effect of substrate on the growth of the fungus.

**Method**

1. Preparation of substrate
2. Preparation of substrate
3. Preparation of substrate
4. Preparation of substrate
5. Preparation of substrate

**Results**

The results of the study show that the growth of the fungus is significantly affected by the substrate used. The growth rate was highest in the substrate that was most similar to the natural habitat of the fungus.

**Conclusion**

The study concludes that the substrate used has a significant effect on the growth of the fungus. The growth rate was highest in the substrate that was most similar to the natural habitat of the fungus.

**References**

1. Smith, J. (2015). The effect of substrate on the growth of the fungus. *Journal of Microbiology*, 15(2), 123-130.

2. Jones, K. (2016). The effect of substrate on the growth of the fungus. *Journal of Microbiology*, 16(3), 234-241.

3. Brown, L. (2017). The effect of substrate on the growth of the fungus. *Journal of Microbiology*, 17(4), 345-352.

4. White, M. (2018). The effect of substrate on the growth of the fungus. *Journal of Microbiology*, 18(5), 456-463.

5. Black, N. (2019). The effect of substrate on the growth of the fungus. *Journal of Microbiology*, 19(6), 567-574.

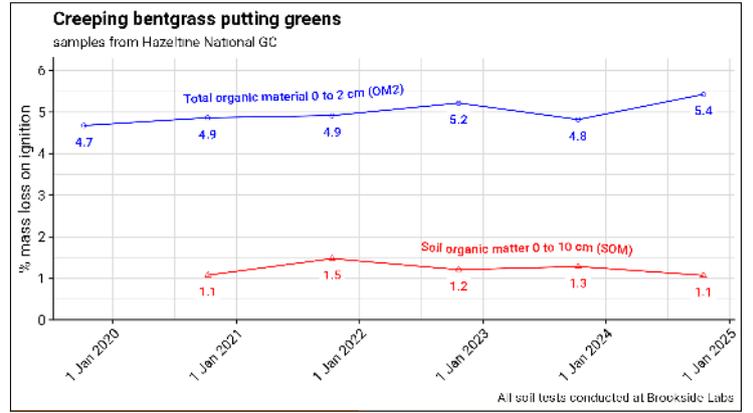
**Appendix**

**A** **B** **C**

**D** **E**

The appendix contains photographs of the experimental setup and the results of the study. Photograph A shows the substrate preparation process. Photograph B shows the growth of the fungus on the substrate. Photograph C shows the growth of the fungus on the substrate. Photograph D shows the growth of the fungus on the substrate. Photograph E shows the growth of the fungus on the substrate.

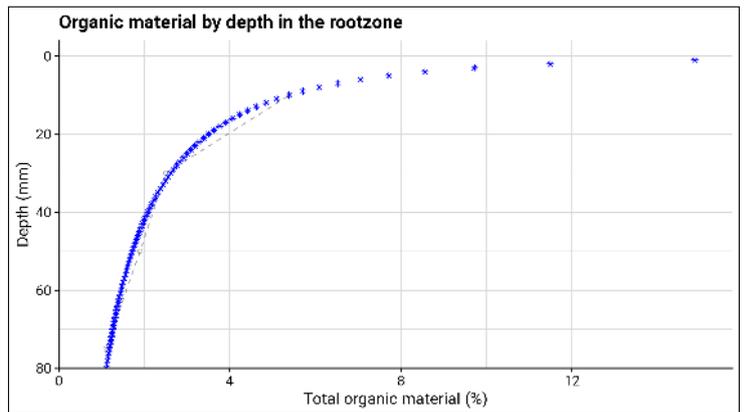
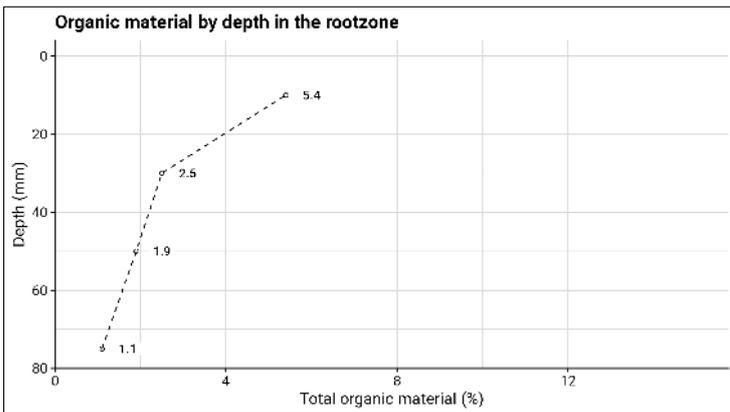




Using OM246 test results

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**Table 1:** Example sampling depth percentage error based on recent Hazeltine National GC OM246 and SOM data.

Puck depth mm	OM2 %	Puck OM2 %	Error %
18	5.4	5.6	-3.8
19	5.4	5.5	-1.9
20	5.4	5.4	0
21	5.4	5.3	1.9
22	5.4	5.2	3.8
23	5.4	5.1	5.6
24	5.4	5.0	7.3

Adding **1 mm** of sand ( $\approx 16$  tons/ha) to a 20 mm section of soil is an instantaneous change in OM of **about 5%**.

Getting started OM accumulation rate Sand requirement Unit conversions Details

Select unit for sand quantity:

Enter sand quantity:

Select desired measurement unit and choose an amount of sand to see the amount in other measurement units.

Unit	Value
mm	1.0
kg/ha	15600
lbs/1000 IP	319
lb/1000 IP	3.3

The conversions are made based on a sand bulk density of 1.56 g/cm<sup>3</sup>

Getting started OM accumulation rate Sand requirement Unit conversions Details

Depth of soil layer (cm)

Starting OM %

Ending OM %

Date range (starting OM% & ending OM%)  
 to

Sand added (mm)

If you have applied 2 mm of sand to a 2 cm layer of the soil with a starting OM of 4.4% on 2023-10-18 and ending OM of 5.4% on 2024-10-18, the total organic matter accumulation rate is:  
 11.99 grams per kg of soil per year

Getting started OM accumulation rate Sand requirement Unit conversions Details

Depth of soil layer (cm)

Current OM %

Desired OM %

Site-specific OM accumulation rate (g/kg/year)

Date range over which sand will be applied to reach desired OM %  
 to

Adding 3.8 mm of sand to the 2 cm depth by 2025-11-19 will result in a total organic matter content of 5.7% (the accumulation rate remains at 11.99 g/kg/year)

The calculation assumes constant accumulation rate through the year. In fact, the app takes the annual rate and adjusts it for number of days being calculated. For additional information, see the Details tab.

Getting started OM accumulation rate Sand requirement Unit conversions Details

Depth of soil layer (cm)

Current OM %

Desired OM %

Site-specific OM accumulation rate (g/kg/year)

Date range over which sand will be applied to reach desired OM %  
 to

Adding 4.8 mm of sand to the 2 cm depth by 2025-10-19 will result in a total organic matter content of 5.2% if the accumulation rate remains at 11.99 g/kg/year

The calculation assumes constant accumulation rate through the year. In fact, the app takes the annual rate and adjusts it for number of days being calculated. For additional information, see the Details tab.

Getting started OM accumulation rate Sand requirement Unit conversions Details

Depth of soil layer (cm)

Current OM %

Desired OM %

Site-specific OM accumulation rate (g/kg/year)

Date range over which sand will be applied to reach desired OM %  
 to

Adding 8.2 mm of sand to the 2 cm depth by 2025-10-19 will result in a total organic matter content of 5.2% if the accumulation rate remains at 9 g/kg/year

The calculation assumes constant accumulation rate through the year. In fact, the app takes the annual rate and adjusts it for number of days being calculated. For additional information, see the Details tab.

Getting started OM accumulation rate Sand requirement Unit conversions Details

Depth of soil layer (cm)

Current OM %

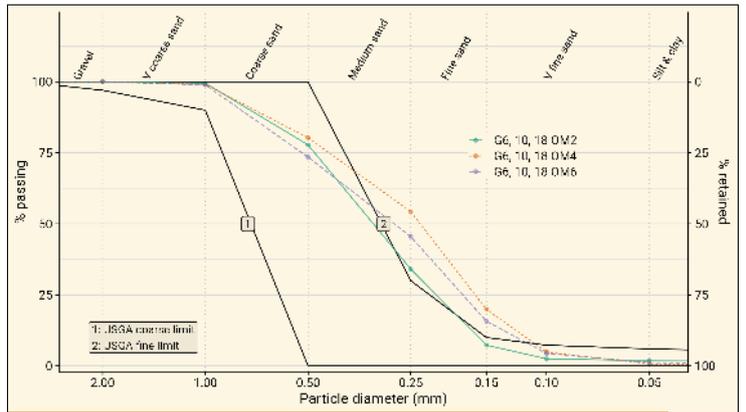
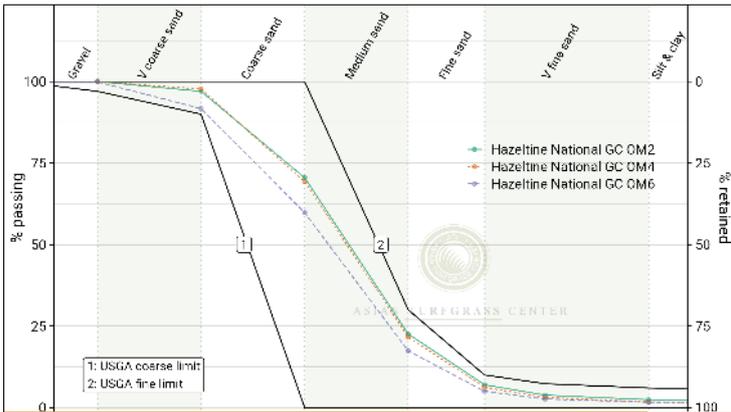
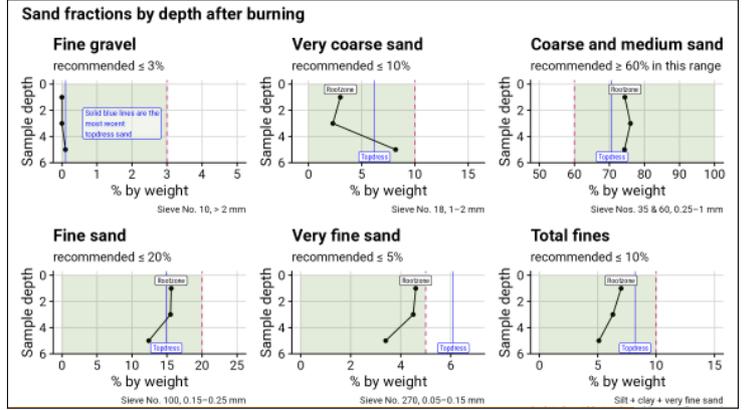
Desired OM %

Site-specific OM accumulation rate (g/kg/year)

Date range over which sand will be applied to reach desired OM %  
 to

This result is not possible with the given starting parameters.

The calculation assumes constant accumulation rate through the year. In fact, the app takes the annual rate and adjusts it for number of days being calculated. For additional information, see the Details tab.





Online handout with slides & more info



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