

Compost oh compost

3. If moisture content is falling, with $\frac{dM}{dt} = -2$ on day 12 and the compost pile at 42% moisture, what is $\frac{dCN}{dt}$?
4. Write a full sentence interpreting your result.
5. Conversely, you might find yourself in a very rainy situation. It's been raining for a week and moisture content has increased to a constant 85%. Your particles are 1 cm across. Assume that aeration is decreasing, as mud is building up around the holes in your composter. If aeration is at 0.4 liters of air per minute-kilogram on day 4, and the carbon/nitrogen ratio is decreasing at a rate of -14 , what is $\frac{dA}{dt}$?
6. Write a full sentence interpreting this result.