


One Million Trees - By The Numbers

15 tonnes annual carbon footprint of a person living in the UK (CO₂ equivalent)

 (the weight of 15 cars)

1 tonne the amount of CO₂ a tree  absorbs over its lifetime


 (the weight of 1 car)

15 trees the number of trees that need to be planted per person, per year, to offset their emissions




£70 the cost per person, per year, to offset their emissions by planting trees



1/2 of Powys  number of people whose emissions are offset for one year by planting 1 million trees

1 acre area needed to plant 1000 trees

1000 acres area needed to plant 1 million trees

 (area of 3 Llangorse lakes)

Notes

1. These numbers are Fermi Estimates, that is, correct only to the nearest order of magnitude.
2. 15 tonnes CO₂e - annual carbon footprint of person living in UK ["How Bad Are Bananas?" by Mike Berners-Lee]
3. 1300kg - weight of a car [<https://www.creditdonkey.com/average-weight-car.html>]
4. 1 tonne - amount of CO₂ a tree absorbs over its lifetime
[<https://granthaminstitute.com/2015/09/02/how-much-co2-can-trees-take-up/>]
5. £4.50 - cost to plant a tree and follow up over 12 years ["A Million Trees in the Brecon Beacons National Park"]
6. 132,447 people - population of Powys [<https://en.wikipedia.org/wiki/Powys>]
7. 2250 trees per hectare [<http://www.cumbriawoodlands.co.uk/woodland-management/creating-a-new-woodland.aspx>].
8. 327 acres - area of Llangorse lake [https://en.wikipedia.org/wiki/Llangorse_Lake]