

Nov. 7th. 1930.

Dr. K. Tjebbes,  
Svenska Sockerfabriks Aktiebolaget,  
Box 82,  
Landskrona,  
Sweden.

Dear Dr. Tjebbes,

Thanks for your letter, which I have just received. I am glad the calculations as to percentage in-breeding have been useful. It seems to me very <sup>surprising</sup> ~~surprising~~, if pollination between two inflorescence of the same plant is impossible, that there should not be a similar effect between halves of the same plant grown on independent root systems, and even to a <sup>less extent</sup> ~~close estimate~~ between different plants of the same individual ~~plants~~.

With ~~the~~ respect to the standard error of a product the formula you give is correct, provided the errors in <sup>weight</sup> ~~it~~ and in sugar percentage are independent, and this will depend on the <sup>causes</sup> ~~numbers~~ from which the errors arise. For example, in a field <sup>if</sup> experiment/a number of parallel plots the three quantities are determined, we can directly ascertain the standard error of each and I should expect in such a case that the standard error in total sugar would be less than that given by the formula, though

the<sup>re</sup> being in the field a compensation (or negative correlation) between weight of beets on different plots, and sugar percentage.

Yours sincerely,