



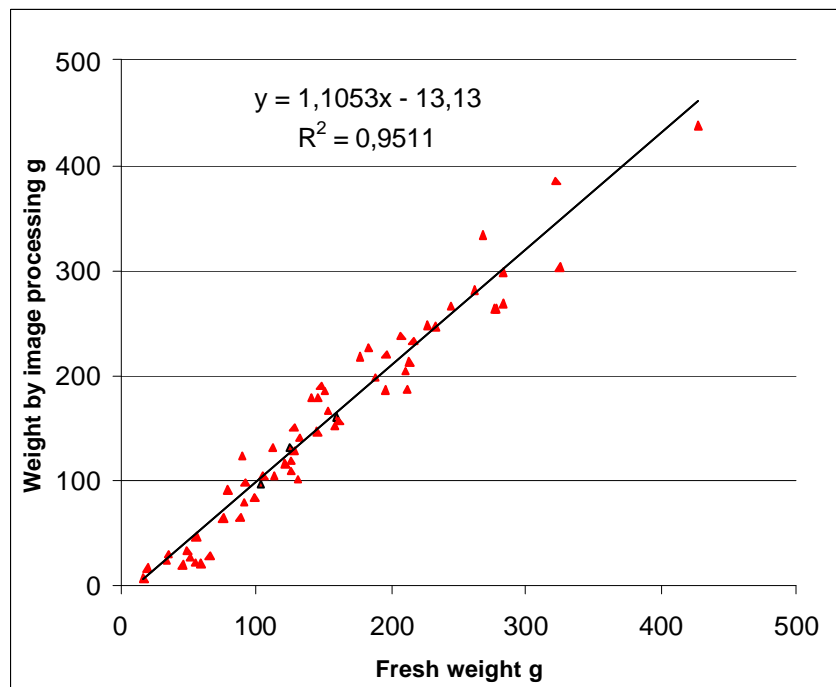
LemnaTec SAW Bonit Non-destructive Assessment of Plant Weight

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For research purposes and compliance specific national and international standards and guidelines (e. g. plant vigour test by OECD and others), it is necessary to quantify and to compare biomass production of treatments and controls. This is generally done destructively, based on measurement of dry weight or in some cases of fresh weight. For better and non-destructive measurements, LemnaTec SAW Bonit allows to measure the projected leaf area from side and top, depending on the respective plant architecture.

Based on this quantitative data, a mathematical model can be fitted to the real measurement data, e. g. of dry weight related to leaf area data. Another and more direct option is to use the leaf area data as such to compare growth dynamics of different plants.

The following example for this kind of analysis is based on total leaf area information from top and two sides for about 60 well watered, field grown plants harvested in Germany, using a model based on total visible leaf area from all three sides.



For further information please do not hesitate to contact

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