

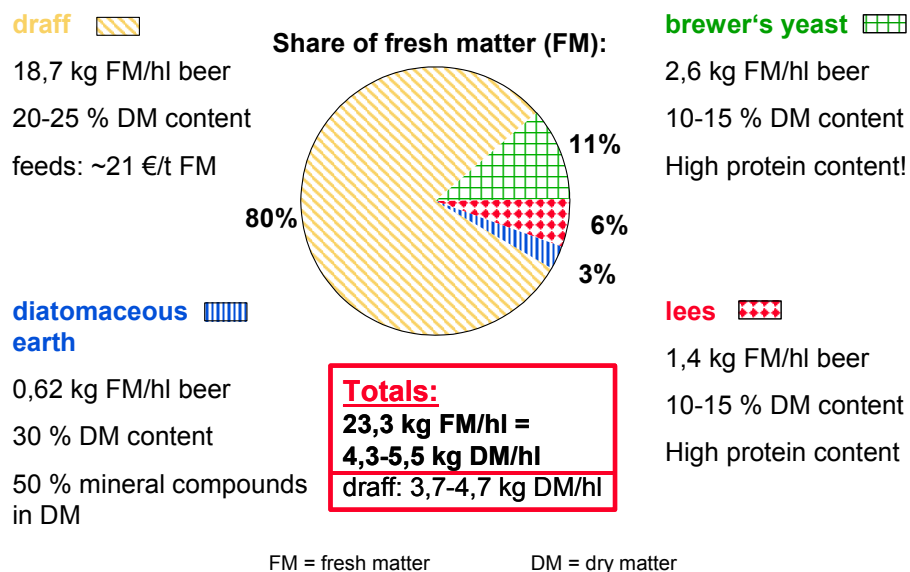
Background information to the paper Moerschner, Hartmann, Eltrop

Title: Organic residues for cofiring in a coal fired CHP-Plant - a case study on markets, prices and potentials in Baden-Württemberg, Germany

Amounts of selected biomass residues in Baden-Württemberg

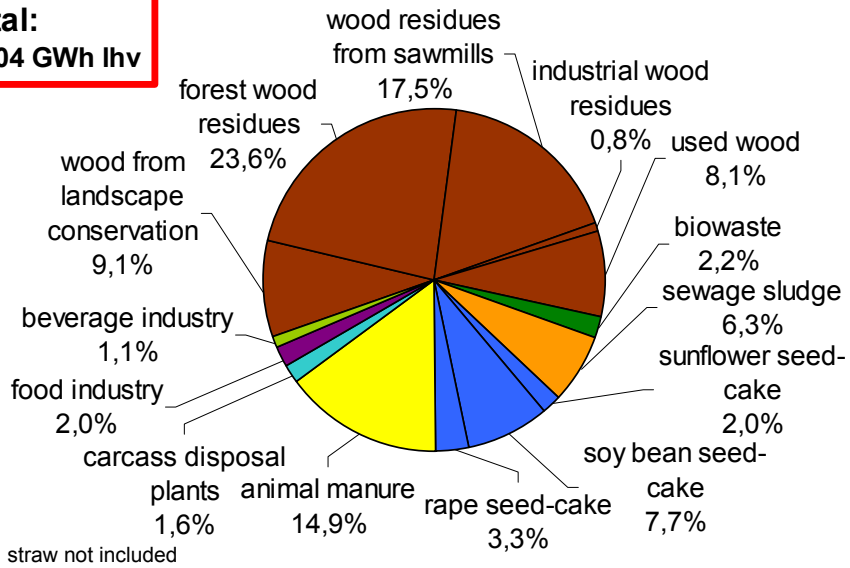
residue	Amount/year
draff	28.592 t/a FM
sugar beet chips	41.126 t/a FM
cacao peelings	7.200 t/a FM
animal manure	1.747.154 LU
meat and bone meal	43.200 t/a FM
animal fat	18.000 t/a FM
malt rootlet	4.560 t/a FM
grain residues	2.800 t/a FM
soy bean seed-cake	410.000 t/a FM
sunflower seed-cake	104.000 t/a FM
rape seed-cake	174.000 t/a FM
apple pomace	109.000 t/a FM
grape cake	86.707 t/a FM
energy wood	1.957.000 t/a DM
bio waste	421500 t/a FM
sewage sludge	330000 t/a FM

FM = fresh matter DM = dry matter LU = livestock unit

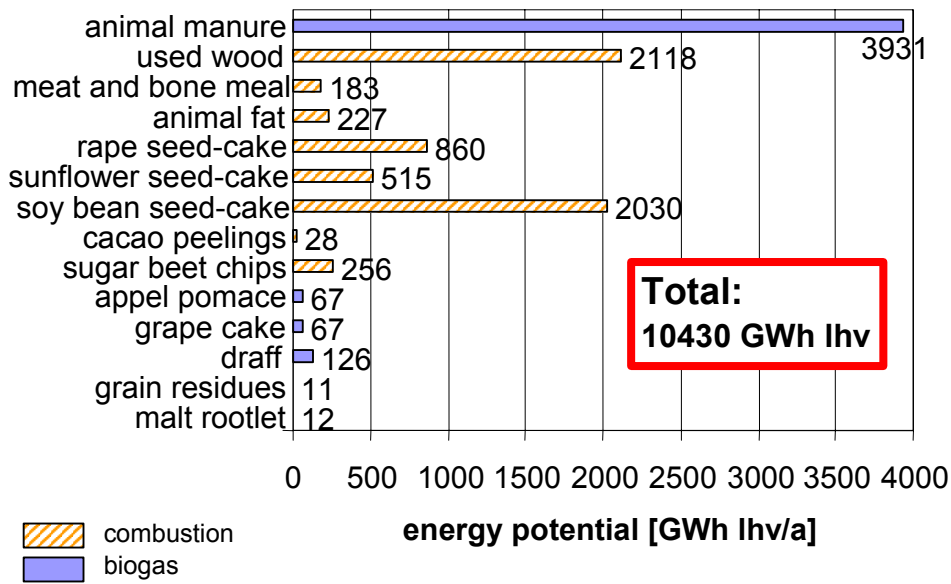


Beer production as an example - Properties and amounts of brewery's residues per hectolitre of beer

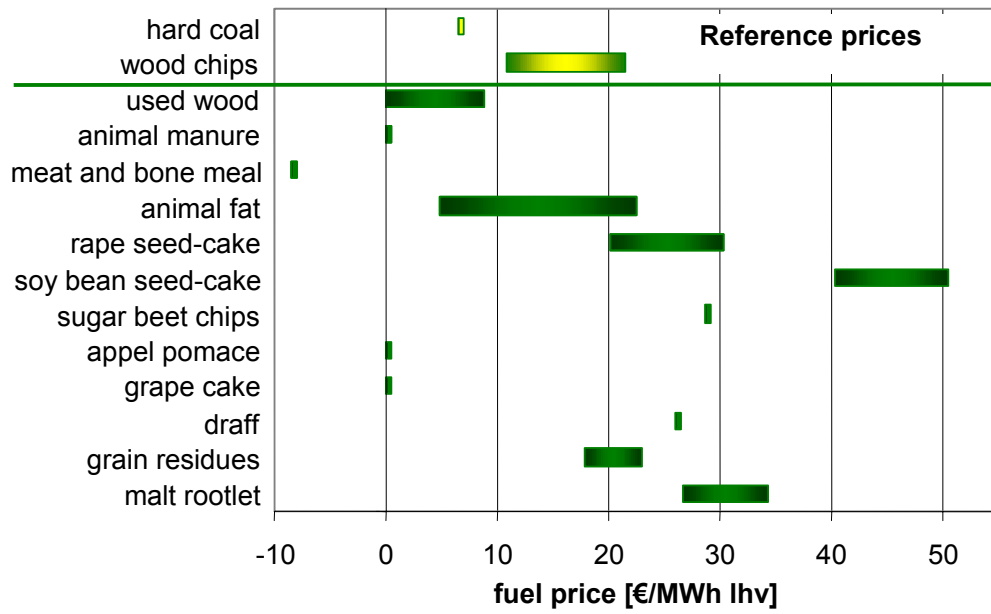
**Total:
26304 GWh lhv**



Theoretical biomass energy potentials from residues in Baden-Württemberg, derived from literature and own data



Theoretical biomass energy potentials from residues in Baden-Württemberg



Calculated fuel prices for biomass residues derived from currant market prices for non energetical use