

$\log[(Y/\Delta Y) / (Y/\Delta Y)_u]$

HAULAB-Y contrast
normalized to $(Y/\Delta Y)_u$

$C_r/C_{ru} = (Y/\Delta Y)/(Y/\Delta Y)_u$

$100 L^* = s(Y/Y_n)^n - d \quad (Y_n=100, Y_u=11, s=134,6, n=0,31, d=19,2) \quad [1a]$

$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 79,10, L^*_u = r - d = 59,8) \quad [1b]$

$Y/dY = Y / \{ [(Y_n/(n s))] (Y/Y_n)^{1-n} \} \quad [4c]$

$(Y/Y)_u = Y_u / \{ [(Y_n/(n s))] (Y_u/Y_n)^{1-n} \} \quad [4d]$

$10 (Y/dY) / (Y/dY)_u = (Y/Y_u)^n \quad [4e]$

$\log [(Y/dY) / (Y/dY)_u] = (n) \log(Y/Y_u) \quad [4f]$

