

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

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

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

$100L^*=s(Y/Y_n)^n-d \quad (Y_n=100, Y_u=30, s=163,9, n=0,31, d=63,9)$ [1a]

$L^*=r(Y/Y_u)^n-d \quad (r = s(Y_u/Y_n)^n=96,32, L^*_u=r-d=32,4)$ [1b]

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

