

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

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

$S_r/S_{ru}=(\Delta Y/Y)/(\Delta Y/Y)_u$

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

$dY/Y = [(Y_n/(ns))] (Y/Y_n)^{1-n} / Y$  [3c]

$(dY/Y)_u = [(Y_n/(ns))] (Y_u/Y_n)^{1-n} / Y_u$  [3d]

$(dY/Y) / (dY/Y)_u = (Y/Y_u)^{-n}$  [3e]

$\log [(dY/Y) / (dY/Y)_u] = (-n) \log(Y/Y_u)$  [3f]

$\phi=10'$   
 $L_{aw}=300 \text{ cd/m}^2$

application  
range

