

log(L*) LABJND1 lightness

log(L*) L*

4 10000

$$L^*_{\text{LABJND1}} = (t/a) \ln(1 + a \cdot Y) \quad a=0.3411 \quad t=88.23$$

$$L^*_{\text{LABJND1}} = (t/a) \ln[1 + b(Y/Y_u)^m] = 6.1411 \quad t/a=258.6$$

$$L^*_u=508, Y_u=18, dY_u=0.08, dY_u/Y_u=0.004$$

$$\log(L^*_u)=2.7, m_u=0.43$$

3 1000

2 100

1

-2

0,1

-1

1

0

$Y_N=4$

10

1

$Y_u=18$

100

2

Y

log(Y)

application range