Growth Analysis

* Individual Plants

RGR, NAR, LAR, SLA, SLW, and S-R ratio

* Plant Communities

LAI, LAD, CGR, NAR and HI

RGR = ( In w2 – In w1)/(T2 – T1) = g.g-1. Day-1

NAR = [(w2 – w1)/(T2 – T1)] X [(In LA2 – In LA1)/LA2 – LA1)] = g. cm-2. Day-1

LAR = [ (LA1/w1) + (LA2/w2)]/2 = cm2. g-1

SLA = [ (LA1/Lw1) + (LA2/Lw2)]2 = cm2. g-1

SLW = 1/SLA = g cm-2

S-R ratio = Sw/Rw = %

LAI = [(LA1 + LA2)/2] X 1/GA = cm2/cm2 = ----

LAD = [(LA1 + LA2)/2] X (T2-T1) = cm2 . day

CGR = [(w2 – w1)/T2 –T1)]/ GA = g. cm-2. day-1

HI = GY/BY X 100

Light Efficiency

Efficiency of Interception = (I0 – I)/I0 X 100 = %

K = (InI0 – InI)/ LAI =

Efficiency of Photosynthesis = Ia / I0 X 100 = %