

Table II. *DNA Content in Chloroplasts and Cells of Wheat Seedlings*

DNA content of plastids isolated from different sections of 7-d-old wheat seedlings, expressed in terms of weight (\pm SE) and number of genome copies, assuming a genome size of 1.5×10^{-16} g. The values are averages from the data presented in Table I. Levels of Chl/plastid (included to illustrate the degree of development of the plastids in each section of the leaf) are derived from (3).

	Distance from Leaf Base (cm)			
	1-2	2-3	4-5	6-7
Chl/plastid* ($\text{g} \times 10^{-15}$)	40	100	420	730
Chloroplasts/cell ^a	<50	>50	155	155
cpDNA/plastid ($\text{g} \times 10^{-14}$)	12.1 ± 1.5	15.3 ± 1.7	4.8 ± 0.2	4.7 ± 0.3
Genome copies/plastid	810 ± 100	$1,020 \pm 110$	320 ± 15	310 ± 20
Total DNA/mesophyll cell ($\text{g} \times 10^{-12}$) ^b	36.0	39.0	45.0	45.0

^a Values for chloroplasts/cell and Chl/plastid were derived from Boffey *et al.* (3).

^b Total DNA/cell values include nuclear DNA (C. Dean, personal communication).