

## RESEARCH COMMUNICATIONS

**Table 1.** Gas exchange characteristics and relative stomatal limitation of cowpea and sunflower

	Cowpea	Sunflower
CO <sub>2</sub> compensation point (ppm)	60.0	70.0
A at 330 ppm CO <sub>2</sub>	12.7	21.0
C <sub>i</sub> (ppm)	220.0	245.0
Initial slope (dA/dC <sub>i</sub> )	0.086	0.150
C <sub>i</sub> at A <sub>max</sub>	500.0	473.0
A <sub>max</sub>	22.75	36.00
Relative stomatal limitation (ls %)	36.36	30.00

used for development of CO<sub>2</sub>-response curves in plants with high precision. This method is inexpensive compared to the use of mixtures of gases from gas cylinders. Further the use of this technique becomes pronounced, especially when studies of a number of species or genotypes are undertaken, because each

drum can supply an accurately known concentration of CO<sub>2</sub> for over 25 min.

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