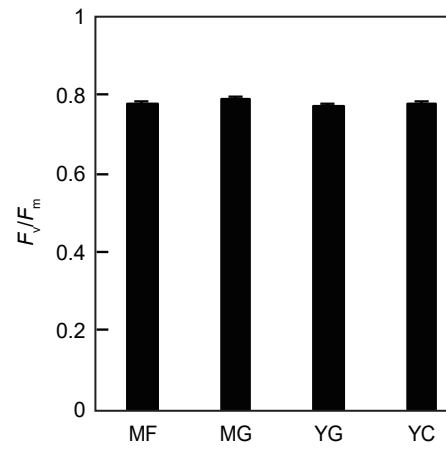


**Fig. 1S. The limiting step of CO<sub>2</sub> assimilation.** The black circles with bars denote the mean measured CO<sub>2</sub> assimilation rates ( $P_N$ ) with SE of different leaf samples of *Populus alba*. The limitation by RuBP carboxylation ( $A_c$ , solid line) or RuBP regeneration ( $A_j$ , dash line) was analyzed with the obtained parameters.



**Fig. 2S.** The maximum photosynthetic efficiency of *Populus alba*. Each data point represents mean  $\pm$ SE (n=6).

**Table 1S. The growth condition of *Populus alba*.**

	Daily average temperature [°C]	Light [ $\mu\text{mol m}^{-2} \text{s}^{-1}$ ]	Photoperiod [h]
Phytotron	25	150	16
Glasshouse	24 - 28	95% sun	12 - 15
Field	21 - 28	Full sun	12 - 15