Supplementary material

Table S1. The plots general characteristics of Shaanxi province.

Site	Species	Plot Number	Density of Trees (trees·1000 m ⁻²)	Breast Diameter (cm)	Tree Height (m)
NSX	QW	8	746 (150~900)	12.60 ± 0.50	13.80 ± 0.50
	RP	5	855 (166~1917)	12.80 ± 0.30	10.50 ± 0.30
MSX	QW	7	776 (233~1550)	13.50 ± 0.30	15.20 ± 0.30
	RP	7	1163 (550~1860)	13.20 ± 0.20	11.60 ± 0.10
SSX	QW	8	975 (300~2333)	12.90 ± 0.50	10.40 ± 0.20
	RP	4	1050 (617~1300)	13.10 ± 0.40	14.70 ± 0.30

Note: *QW* is *Q. wutaishanica* forest, *RP* is *R. pseudoacacia* forest; NSX: Northern Shaanxi Plateau, MSX: Guanzhong Plain, SSX: Southern Shaanxi Mountain.

Table S2. Allometric growth equation for two tree species.

	QW [1]	<i>RP</i> [2]	_
Ws	$0.0974DBH^{2.1176}$	$0.18DBH^{2.1318}$	
$W_{ m B}$	$0.014DBH^{3.095}$	$0.03743DBH^{2.2434}$	
$W_{ m L}$	$0.017DBH^{2.321}$	$0.008883DBH^{2.3462}$	
$W_{ m R}$	$0.0265DBH^{2.3865}$	$0.0178DBH^{2.645}$	
$W_{ m T}$	$W_{\mathrm{S}}+W_{\mathrm{B}}+W_{\mathrm{L}}+W_{\mathrm{R}}$		

Note: W_S , W_B , W_L , W_R and W_T were the total biomass (kg) of trunk, branch, leaf, root and tree, respectively. DBH: Diameter at breast height of tree.

References

- 1. Zhang, B.L. Study on biomass and productivity of *Quercus lidotungensis* stands in Ziwuling forest region of Shaanxi province. *Journal of Northwest Forestry University* **1990**, *1*, 1–7, (In Chinese).
- 2. Zhang, B.L. Biomass and production of *Robinia pseudoacacia* plantation in hongxing tree farm of Changwu county, Shaanxi province. *Shaanxi Forest Science & Technology* **1992**, *3*, 13–17, (In Chinese).