

Site name		Harvard Forest (US-Ha1)	Morgan–Monroe (US-MMS)	Uni. of Mich. (US-UMB)
Land–atmosphere CO <sub>2</sub> fluxes (g C m <sup>-2</sup> yr <sup>-1</sup> ) and LAI (m <sup>2</sup> m <sup>-2</sup> )				
Gross primary productivity	Observed	3.9	4.5	3.6
	CLASS–CTEM original	3.6	5.0	3.6
	CLASS–CTEM modified	3.7	5.3	3.7
Ecosystem respiration	Observed	3.3	3.3	2.9
	CLASS–CTEM original	3.6	4.9	3.5
	CLASS–CTEM modified	3.7	5.3	3.7
Net ecosystem productivity	Observed	0.7	1.2	0.7
	CLASS–CTEM original	0.02	0.1	0.0
	CLASS–CTEM modified	0.0	0.0	0.0
Leaf area index	Observed	1.8	3.0	2.8
	CLASS–CTEM original	2.0	3.1	1.9
	CLASS–CTEM modified	1.9	3.0	1.8
Energy fluxes and energy budget (W m <sup>-2</sup> )				
Net radiation ( $R_n$ )	Observed	78.9	89.6	78.1
	CLASS–CTEM original	59.6	89.2	66.8
	CLASS–CTEM modified	59.6	89.6	67.2
Latent heat flux (LE)	Observed	34.0	38.3	35.4
	CLASS–CTEM original	38.9	68.6	47.9
	CLASS–CTEM modified	39.4	69.3	48.3
Sensible heat flux ( $H$ )	Observed	29.3	25.1	29.4
	CLASS–CTEM original	20.7	20.6	18.9
	CLASS–CTEM modified	20.2	20.3	18.9
$R_n$ –LE– $H$	Observed	15.6	26.2	13.3
	CLASS–CTEM original	0	0	0
	CLASS–CTEM modified	0	0	0