

Table 1S. RMSE and NSE values obtained using different optimization algorithms with different control parameters for wheat and reed (with large parameter bounds). 5PM – five-parameter model; 4PM – four-parameter model; RMSE – root mean square error; NSE – Nash–Sutcliffe efficiency; SCE – shuffled complex evolution; PSO – particle swarm optimization; SA – simulated annealing; GA – genetic algorithm.

Model		Wheat				Reed			
		SCE	PSO	SA	GA	SCE	PSO	SA	GA
5PM	RMSE	0.53932	0.53932	0.47803	0.4758	1.171406	1.22529	1.13885	1.5526
(Case 3)	NSE	0.99782	0.99782	0.99829	0.9983	0.997578	0.99735	0.99771	0.9957
5PM	RMSE	0.53932	0.53932	0.47805	0.4758	1.17145	1.22529	1.13884	1.5526
(Case 4)	NSE	0.99782	0.99782	0.99829	0.9983	0.997578	0.99735	0.99771	0.9957
4PM	RMSE	0.29101	0.29101	0.29735	1.062	1.136416	1.13642	1.13885	1.613
(Case 3)	NSE	0.99937	0.99937	0.99934	0.9916	0.997721	0.99772	0.99771	0.9954
4PM	RMSE	0.29101	0.29101	0.29734	1.033	1.136416	0.84977	0.79567	1.6083
(Case 4)	NSE	0.99937	0.99937	0.99934	0.992	0.997721	0.99873	0.99888	0.9954