

Supplementary File

Table S1: Observational field data to calibrate and validate the APSIM-cotton model to quantify the effect of different sowing dates of growth and yield of the cotton crop during 2018 and 2019.

2018					2019				
Planting Date (DD/MM/YY)	P. height (cm)	No. of boll plant ⁻¹	Boll weight (g)	Yield kg ha ⁻¹	Planting Date (DD/MM/YY)	P. height (cm)	No. of boll plant ⁻¹	Boll weight (g)	Yield kg ha ⁻¹
18/02/2018	170	45	3.6	5234	18/02/2018	146	40	3.7	5045
04/03/2018	185	58	3.5	5528	04/03/2018	152	43	3.8	5434
18/03/2018	181	59	3.6	5286	18/03/2018	138	38	3.8	4983
04/04/2018	176	56	3.5	4423	04/04/2018	133	35	3.7	4464
18/04/2018	169	49	3.4	4047	18/04/2018	127	31	3.6	4036
04/05/2018	118	28	3.4	2090	04/05/2018	119	28	3.5	3023
18/05/2018	91	23	3.3	1476	18/05/2018	112	25	3.4	2122
04/06/2018	75	15	3.2	986	04/06/2018	104	19	3.3	1469
18/06/2018	54	08	3.15	498	18/06/2018	81	11	2.3	701

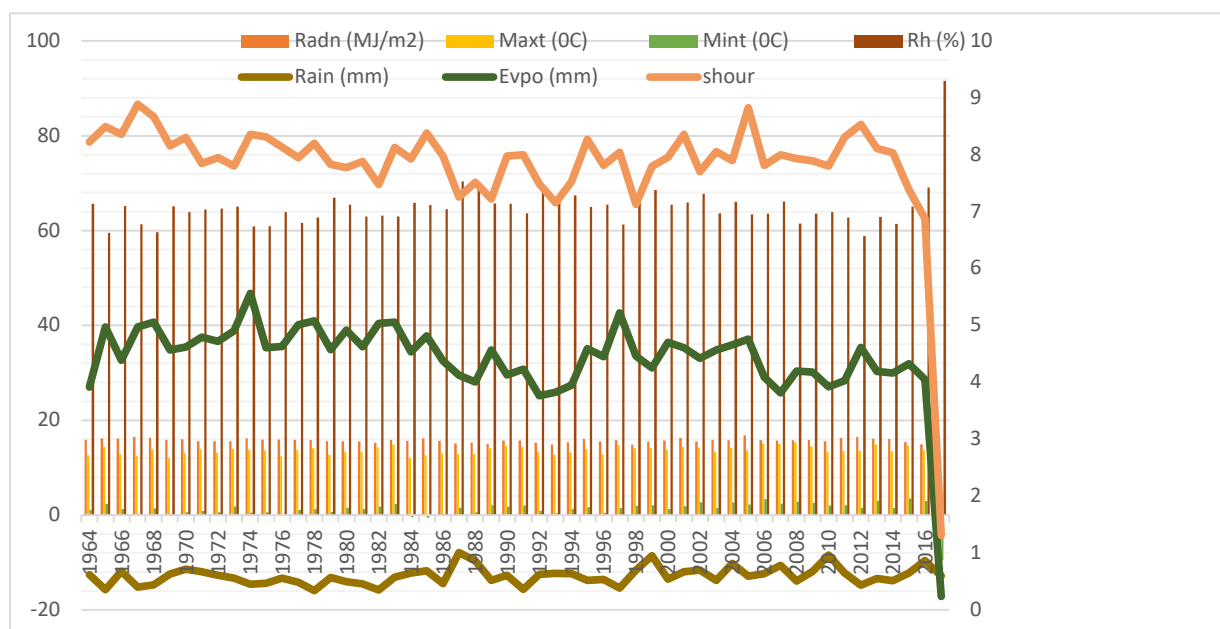


Figure S1. Cumulative plot of the climate variables Radn (MJ/m2), Tmax (°C), Tmin (°C), Rh (%) rain (mm), Evpo (mm) and S-hour during cotton growth season in Xinjiang.