

Supporting Information for:

Table S1

The irrigation schedule in the growing seasons of 2019, 2020, and 2021.

Growth stage of cotton	2019	DAS	Amount (mm)	2020	DAS	Amount (mm)	2021	DAS	Amount (mm)
Sowing data	9April	0	0	13April	0	0	8April	0	0
Seedling and Squaring stage	14June	68	29.36	16June	70	28.33	14June	68	29.29
	22June	76	26.33	27June	78	31.90	22June	76	28.33
	30July	84	32.23	5July	86	36.19	30July	84	31.43
Flowering and boll-setting stage	8July	93	43.23	13July	94	41.67	7July	92	43.81
	16July	100	38.14	21July	102	39.76	16July	100	37.14
	24July	108	41.94	29July	110	41.19	24July	108	42.14
Bolls and boll-opening stage	1August	116	39.69	6August	118	37.62	1August	116	41.67
	9August	124	36.65	14August	126	36.98	9August	124	35.95
	16August	132	21.48	22August	134	20.24	16August	132	20.48
	25August	140	20.57	30August	142	21.19	25August	140	18.57
Total	-	-	329.62	-	-	335.07	-	-	328.81

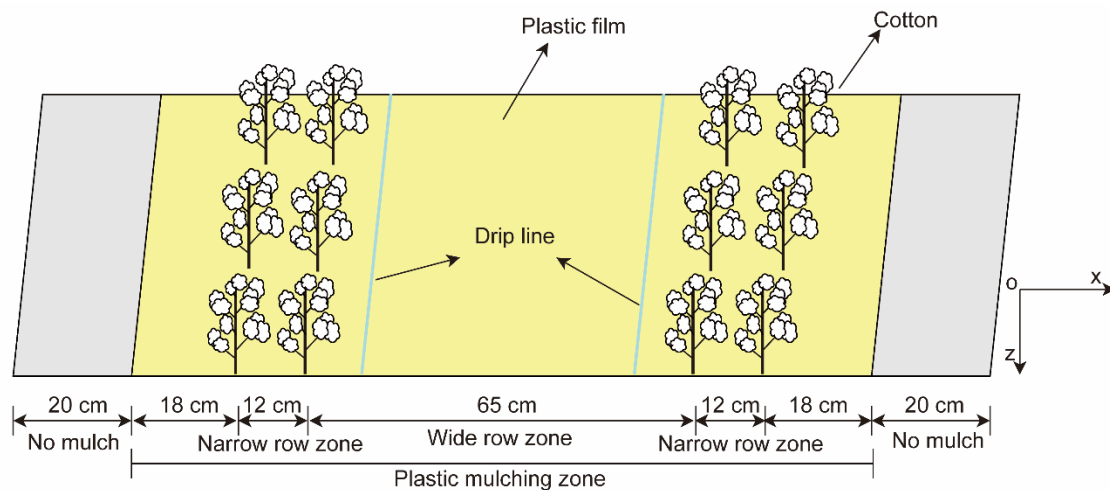


Figure S1. Schematic diagram of cotton planting.

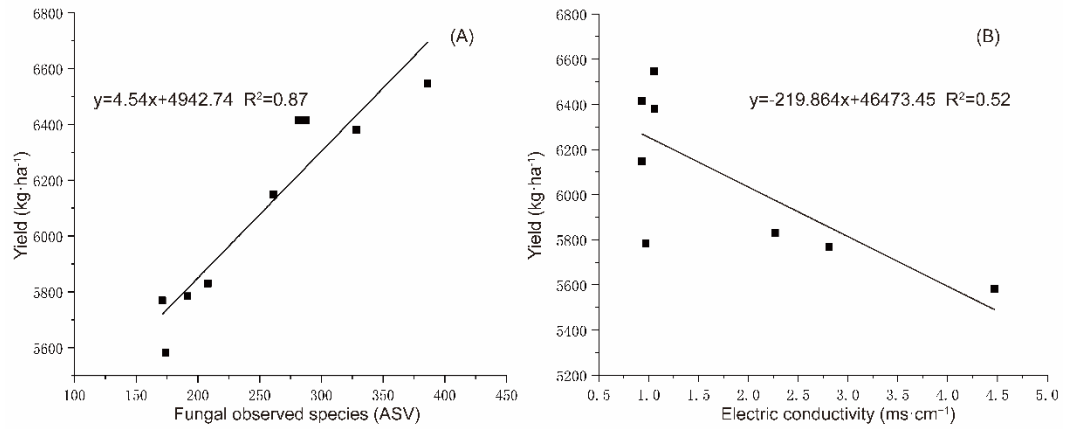


Figure S2. Results of the correlation analysis between cotton and yield fungal observed species (A) and EC (B).

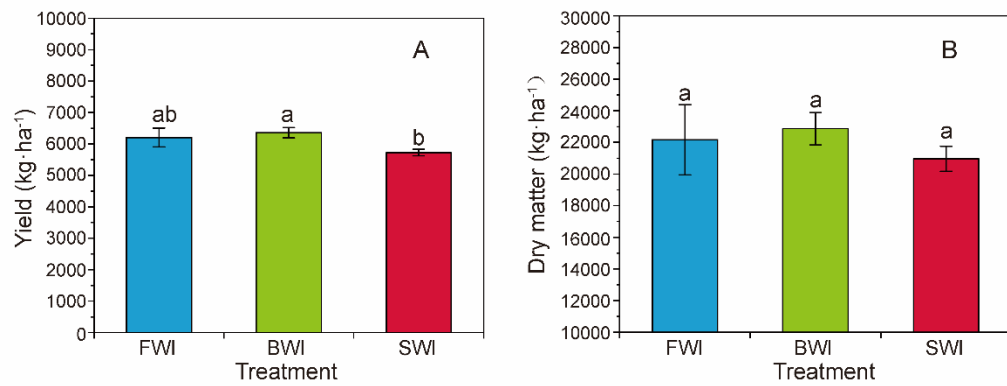


Figure S3. Comparison of seed cotton yield (A) and dry matter (B) between the fresh (FWI), brackish (BWI), and salt (SWI) irrigation water treatments. Error bars represent standard errors. The different lower-case letters indicate significant differences among treatments ($p < 0.05$; Fisher's LSD Test).