

Table 3 Evaluation matrix *B*

Planting areas	Variety	Yield (kg/hm <sup>2</sup> )	Proportion of superior tobacco (%)	Output (yuan/hm <sup>2</sup> )	Number of leaves (piece)	Stem circumference (cm)	Plant height (cm)	Nicotine content (%)	Total sugar content (%)	Kalium content (%)	Black shank index
Planting areas in Southwest Sichuan	09011	2 353.50	25.83	43 257.33	18.95	11.45	117.95	2.89	27.39	1.85	3.32
	X3	2 095.50	24.69	40 254.56	17.55	11.55	111.10	2.68	30.01	2.25	4.97
	X4	2 035.50	28.13	41 381.72	17.20	12.00	111.95	2.56	28.91	2.11	4.81
	SCT01	2 190.75	33.79	47 254.48	18.20	11.60	108.65	2.37	26.71	2.24	2.98
	k326	2 118.75	28.87	42 841.13	18.70	10.40	102.50	2.60	26.96	1.98	2.86
	Yunyan87	2 027.25	32.89	46 282.12	17.50	10.05	108.90	2.37	25.14	2.02	2.31
	Hongda	1 857.00	38.76	43 602.36	14.70	11.40	109.00	2.26	27.92	2.49	3.90
Planting areas in South Sichuan	09011	2 158.50	31.06	45 134.24	19.25	9.75	114.75	2.98	26.25	1.98	2.82
	X3	1 995.75	26.41	36 143.03	19.60	10.30	106.45	2.55	25.84	2.52	5.64
	X4	2 033.25	25.40	38 204.77	17.15	9.75	98.70	2.87	26.98	2.41	5.21
	SCT01	2 071.50	28.19	41 782.16	19.00	9.90	105.00	2.29	27.25	2.21	2.26
	k326	2 132.25	28.81	45 608.83	18.50	9.45	107.80	2.48	25.46	2.45	0.78
	Yunyan87	1 843.50	34.29	42 160.85	17.00	9.70	90.50	2.37	28.07	2.30	1.99
Planting areas in North Sichuan	09011	1 494.00	18.36	25 263.54	16.30	8.20	63.60	2.61	27.34	1.98	8.61
	X3	1 474.50	16.34	22 471.38	15.80	8.60	65.50	2.49	28.87	2.21	16.06
	X4	1 242.00	18.10	19 983.78	14.60	8.20	55.00	2.86	26.95	2.29	12.70
	SCT01	1 399.50	17.92	22 853.84	16.20	7.90	60.80	2.38	27.89	2.33	19.73
	Yunyan87	1 263.00	20.45	22 872.93	16.20	7.40	67.60	2.35	26.98	2.05	10.29