

Supplementary Table 3. Interactions of r_{area} and r_{yield} was integrated in the multiple linear regression model for *yield gap*.

	Factor	β	error	t	p
Rice	(Intercept)	-546.42	69.83	-7.825	0.0000000206***
	r_{area}	6576.43	968.89	6.788	0.000000273***
	r_{yield}	624.95	52.36	11.935	0.00000000000281***
	$r_{\text{area}} \times r_{\text{yield}}$	-5507.63	772.92	-7.126	0.000000116***
<i>indica</i> , <i>japonica</i>	(Intercept)	294.91	20.3	14.529	0.0000000000000543***
	$r_{\text{area}} \times r_{\text{yield}}$ (<i>indica</i>)	-1141.74	259.59	-4.398	0.000164***
	$r_{\text{area}} \times r_{\text{yield}}$ (<i>japonica</i>)	-16.43	74.34	-0.221	0.82677