

## Supplementary Table

**Supplementary Table S1.** Means of disease incidence (DI), disease severity index (DSI), the area under the disease-progress curve of disease incidence (AUDPC-DI), the area under the disease-progress curve of disease severity index (AUDPC-DSI) and resistance levels of downy mildew of 5 plant ages in 23 small-ear waxy corn varieties at Nong Bau Village, in rainy season 2020, at Banphang, Khon Kaen.

Varieties	Disease incidence (%)					AUDPC	Disease severity index (%)					AUDPC	Resistance	
	14 days	21 days	28 days	35 days	42 days		DI	14 days	21 days	28 days	35 days			42 days
Group C														
Nei9008/TY-23-5-B	8.3 b	91.8 a-d	98.2 a	100.0 a	100.0 a	2409 a-c	2.1 b	27.5 b-e	45.0 a-e	52.1 a-f	58.8 b-e	1086 a-f	S	
Nei9008/BK-17-5-B	0 b	86.1 a-g	74.5 g-k	92.0 b-f	100.0 a	2118 g-m	0 b	24.5 b-g	23.1 f-i	29.3 g-i	41.2 c-i	683 f-l	MS	
Nei9008/BK-24-2-B	5.6 b	91.0 a-e	94.5a-f	100.0 a	100.0 a	2368 a-f	1.4 b	25.6 b-f	32.1 c-i	32.3 f-i	35.9 e-i	761 c-l	MS	
TY/TF-18-12-B	1.9 b	85.4 a-g	93.8 a-f	98.2 ab	100.0 a	2298 a-i	0.5 b	21.6 c-i	25.9 e-i	26.8 hi	31.0 g-l	630 g-l	MS	
Nei9008/BK-24-9-B	0 b	82.9 a-g	79.3 d-i	86.9 e-h	89.9 d	2057 i-n	0 b	21.6 c-i	21.2 g-i	22.8 i	24.4 h-l	545 i-l	MR	
TY/TF-6-2-B	5.9 b	88.9 a-f	90.6 a-g	100.0 a	100.0 a	2327 a-h	1.5 b	24.4 b-g	26.6 e-i	30.3 g-i	34.7 e-j	695 f-l	MS	
TY/TF-8-1-B	1.8 b	90.2 a-f	84.0 a-i	100.0 a	100.0 a	2275 a-j	0.4 b	23.4 b-h	38.6 a-g	47.1 b-h	57.4 c-f	967 c-h	S	
TY/TF-3-8-B	4.6 b	75.3 a-j	87.0 a-h	100.0 a	100.0 a	2202 c-k	1.1 b	18.8 e-i	24.6 f-i	32.9 f-i	39.6 f-i	677 f-l	MS	
TF/BK-17-2-B	1.7 b	71.5 c-j	94.7 a-e	100.0 a	100.0 a	2218 b-k	0.4 b	19.2 e-i	33.6 b-i	32.6 f-i	45.9 c-i	761 c-l	MS	
TY/TF-33-1-B	1.7 b	58.8 h-j	61.6 jk	90.9 c-f	30.0 e	1590 q	0.4 b	15.8 g-i	18.2 hi	24.2 i	7.9 kl	437 kl	R	
Group E														
Nei9008/TY-4-3-B	0 b	73.4 b-j	88.7 a-h	96.5 a-c	100.0 a	2159 d-l	0 b	19.0 e-i	27.8 e-i	29.0 g-i	34.0 e-j	650 g-l	MS	
Nei9008/TY-9-2-B	2.3 b	97.2 a	99.2 a	100.0 a	100.0 a	2433 a-c	0.6 b	27.5 b-e	36.4 b-h	36.9 c-i	43.3 c-i	859 c-j	MS	
TY/Nei9008-34-5-B	0 b	91.2 a-e	94.0 a-f	100.0 a	100.0 a	2346 a-g	0 b	23.8 b-g	29.7 d-i	31.9 f-i	34.4 e-j	718 e-l	MS	
Nei9008/TY-9-1-B	6.7 b	92.9 a-d	96.3 a-d	98.4 ab	100.0 a	2386 a-e	2.7 b	30.1 a-c	36.2 b-i	39.4 c-i	50.5 c-g	926 c-i	MS	
TY/Nei9008-37-3-B	2.0 b	86.6 a-g	83.0 a-i	95.1 a-d	100.0 a	2209 c-k	0.5 b	21.9 c-i	24.1 f-i	26.5 i	33.3 e-k	626 g-l	MS	
Nei9008/TY-23-1-B	0 b	85.4 a-g	87.8 a-h	94.2 a-d	97.5 ab	2213 b-k	0 b	21.8 c-i	23.2 f-i	24.9 i	27.3 g-l	585 h-l	MS	
TY/TF-27-1-B	4.4 b	66.9 f-j	71.7 h-k	98.9 a	100.0 a	2028 j-o	1.1 b	18.1 f-i	22.7 f-i	33.6 f-i	37.8 e-i	657 g-l	MS	
Nei9008	1.9 b	79.6 a-h	80.9 b-i	82.5 gh	33.0 e	1822 n-q	0.7 b	23.9 b-g	22.6 f-i	23.4 i	8.9 j-l	523 i-l	R	
Takpha1	0 b	54.8 ij	79.8 c-i	95.2 a-d	92.3 cd	1932 l-o	0 b	14.2 i	21.395	25.7 i	24.3 h-l	514 j-l	MR	
Tein Leang Khan Kaen	1.9 b	85.7 a-g	98.1 ab	89.0 d-g	95.5 bc	2249 b-k	1.0 b	25.7 b-f	41.4 a-f	47.7 b-g	59.3 b-e	1015 b-g	S	
Tein Ban Kao	8 b	98.4 a	100.0 a	99.0 a	100.0 a	2249 ab	3.0 b	32.1 ab	58.1 a	68.9 a	85.8 a	1425 a	HS	
Tein Lai-52	19.0 a	98.3 a	100.0 a	100.0 a	100.0 a	2250 a	8.6 a	36.6 a	51.9 ab	63.5 ab	89.9 a	1408 ab	HS	
Tein Ayutthaya 60	3.2 b	79.6 a-h	99.1 a	100.0 a	100.0 a	2249 ab	1.6 b	20.5 d-i	41.7 a-f	54.3 a-e	84.6 ab	1117 a-e	HS	
CV (%)	34.0	12.9	11.2	4.4	3.0	6.2	44.0	20.3	32.3	25.3	26.2	25.4	-	

Means followed by different letters within the same column are significantly different based on LSD at  $P \leq 0.05$ . HR= 0%infection (no symptom), R=1-10% infection, MR=11-25% infection, MS=26-50%infection, S=51-75% infection and HS=76-100% infection

**Supplementary Table S2.** Means for disease incidence (DI), disease severity index (DSI), the area under the disease-progress curve of disease incidence (AUDPC-DI), the area under the disease-progress curve of disease severity index (AUDPC-DSI) and resistance levels of downy mildew of 5 plant ages in 23 small-ear waxy corn varieties at Sok Maung Village, in rainy season 2020, at Banphang, Khon Kaen.

Varieties	Disease incidence (%)					AUDPC	Disease severity index (%)					AUDPC	Resistance
	14 days	21 days	28 days	35 days	42 days	DI	14 days	21 days	28 days	35 days	42 days	DSI	Level
Group C													
Nei9008/TY-23-5-B	100.0 a	93.9 a-d	100.0 a	91.6 a-j	100.0 a	2579 a-e	69.5 a-f	100.0 a	89.0 a-d	100.0 a	89.3 c-i	2691 a-h	HS
Nei9008/BK-17-5-B	100.0 a	73.4 j-n	100.0 a	78.0 h-p	93.8 a-d	2470 b-l	65.4 b-i	100.0 a	77.2 c-h	100.0 a	85.7 e-k	2465 k-n	HS
Nei9008/BK-24-2-B	100.0 a	80.1 c-m	100.0 a	68.1 pq	92.9 b-d	2277 l-n	50.2 g-m	100.0 a	63.7 ij	100.0 a	73.0 l	2430 mn	HS
TY/TF-18-12-B	100.0 a	73.0 k-n	100.0 a	73.4 n-q	100.0 a	2361 h-n	53.4 f-m	100.0 a	67.9 g-j	100.0 a	85.3 e-k	2466 k-n	HS
Nei9008/BK-24-9-B	100.0 a	79.1 e-m	100.0 a	75.7 l-p	91.7 d	2431 d-m	57.1 c-l	100.0 a	74.6 e-i	100.0 a	88.2 c-j	2499 j-m	HS
TY/TF-6-2-B	100.0 a	93.2 a-e	100.0 a	92.2 a-i	100.0 a	2477 b-k	57.1 c-l	100.0 a	78.8 b-h	100.0 a	93.0 a-g	2701 a-g	HS
TY/TF-8-1-B	100.0 a	92.0 a-g	100.0 a	93.5 a-g	100.0 a	2454 c-m	59.2 b-l	100.0 a	75.6 e-i	100.0 a	90.8 a-i	2689 a-h	HS
TY/TF-3-8-B	98.5 a	73.6 j-n	100.0 a	74.7 m-p	100.0 a	2442 l-n	62.7 b-k	100.0 a	75.1 e-i	100.0 a	77.4 kl	2411 d-m	HS
TF/BK-17-2-B	100.0 a	60.2 n-p	100.0 a	71.3 o-p	100.0 a	2328 no	43.3 lm	100.0 a	72.5 f-i	100.0 a	73.3 l	2316 j-n	HS
TY/TF-33-1-B	100.0 a	85.8 a-l	100.0 a	90.7 a-k	100.0 a	2528 a-h	58.9 b-l	100.0 a	84.8 a-f	100.0 a	93.8 a-f	2647 a-j	HS
Group E													
Nei9008/TY-4-3-B	100.0 a	79.7 d-m	100.0 a	81.3 e-p	100.0 a	2394 e-m	54.5 e-m	100.0 a	72.3 f-i	100.0 a	84.8 f-k	2539 h-m	HS
Nei9008/TY-9-2-B	100.0 a	95.4 ab	100.0 a	93.8 a-g	96.7 a-d	2583 a-e	61.3 b-k	100.0 a	90.0 a-c	100.0 a	96.7 a-c	2723 a-e	HS
TY/Nei9008-34-5-B	98.9 a	81.7 b-m	97.9 a	77.5 i-p	91.9 cd	2178 no	50.3 g-m	50.0 b	72.9 f-i	100.0 a	77.1 kl	2467 k-n	HS
Nei9008/TY-9-1-B	100.0 a	91.2 a-h	100.0 a	92.5 a-h	100.0 a	2602 a-d	66.9 a-g	100.0 a	89.8 a-c	100.0 a	96.9 a-c	2702 a-g	HS
TY/Nei9008-37-3-B	100.0 a	94.2 a-c	100.0 a	96.0 a-e	100.0 a	2580 a-e	66.6 a-g	100.0 a	89.1 a-d	100.0 a	92.2 a-g	2718 a-e	HS
Nei9008/TY-23-1-B	100.0 a	84.1 b-l	100.0 a	90.3 a-l	100.0 a	2356 h-n	46.1 j-m	100.0 a	75.3 e-i	100.0 a	76.4 kl	2572 e-m	HS
TY/TF-27-1-B	100.0 a	77.8 g-m	100.0 a	76.1 k-p	98.9 a-c	2524 a-h	74.0 a-c	100.0 a	80.6 b-g	100.0 a	86.0 d-k	2508 j-m	HS
Nei9008	93.8 b	33.1 q	94.3 b	21.4 s	73.6 e	1917 p	37.7 m	100.0 a	44.5 l	96.9 b	33.5 m	1669 q	MS
Takpha1	100.0 a	47.7 p	98.7 a	59.4 qr	96.1 a-d	2039 op	45.1 k-m	100.0 a	47.8 kl	100.0 a	41.7 m	2065 p	MS
Tein Leang Khan Kaen	100.0 a	95.9 ab	100.0 a	95.2 a-f	100.0 a	2632 a-c	84.0 a	100.0 a	85.4 a-f	100.0 a	97.1 a-c	2745 a-c	HS
Tein Ban Kao	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a	2573 a-f	55.1 d-m	100.0 a	90.0 a-c	100.0 a	100.0 a	2800 a	HS
Tein Lai-52	100.0 a	91.6 a-h	100.0 a	95.2 a-f	100.0 a	2675 a	73.5 a-c	100.0 a	95.7 a	100.0 a	99.4 ab	2722 a-e	HS
Tein Ayutthaya 60	100.0 a	95.7 ab	100.0 a	97.2 a-c	100.0 a	2651 ab	76.0 ab	100.0 a	90.6 ab	100.0 a	100.0 a	2760 ab	HS
CV (%)	2.0	7.5	1.9	8.6	4.7	3.2	16.6	7.9	10.2	1.9	6.0	4.7	-

Means followed by different letters within the same column are significantly different based on LSD at  $P \leq 0.05$ . HR= 0%infection (no symptom), R=1-10% infection, MR=11-25% infection, MS=26-50%infection, S=51-75% infection and HS=76-100% infection.