

表1. 食用南瓜品系比較試驗

Table1. The trail of pumpkin.

Variety	Fruit Wight (g)	Fruit Length (cm)	Fruit Width (cm)	Fruitcavity length (cm)	Fruitcavity width (cm)
KPHC98008	1,950 cde ²	25.8 b	14.2 c	16.7 bc	8.7 cd
KPHC98009	1,570 de	16.8 de	14.0 c	8.9 f	7.9 d
KPHC98010	2,420 bc	25.9 b	14.5 c	18.4 b	8.5 bcd
KPHC98017	1,330 e	19.3 cd	15.0 bc	12.9 de	10.0 bcd
KPHC98019	1,970 cde	21.0 c	15.0 bc	13.9 cd	9.5 bcd
KPHC98029	1,620 cde	16.0 e	14.2 c	10.2 ef	8.7 cd
KPHC98031	2,150 cd	14.5 e	18.3 a	8.0 f	11.7 ab
KPHC98032	3,070 b	19.9 c	18.7 a	13.0 de	12.7 a
Y-hsiung(CK)	4,580 a	35.0 a	17.6 ab	24.0 a	10.2 bc

表1. (續)

Table 1. Cont.

Variety	Flesh (cm)	Total soluble solid (°Brix)	Yield (kg/ha)	Yield Index (%)	Days of first ¹ female flower (day)
KPHC98008	3.0 abc	15.0 c	14,074 bc	124.2	35.6 c
KPHC98009	3.1 abc	15.0 c	13,830 bc	122.0	28.8 a
KPHC98010	3.2 abc	14.9 c	16,333 b	144.1	32.4 ab
KPHC98017	2.7 c	17.0 bc	16,519 b	145.8	34.4 bc
KPHC98019	3.1 abc	16.3 bc	22,222 a	196.1	28.6 a
KPHC98029	2.7 bc	17.4 ab	16,556 b	146.1	32.6 a
KPHC98031	3.2 abc	19.4 a	17,444 b	153.9	29.4 a
KPHC98032	3.4 ab	17.0 bc	13,556 bc	119.6	33.3 ab
Y-hsiung(CK)	3.7 a	10.7 d	11,333 c	100.0	30.5 a

Planting date : 2011, 18th Jan. Harvesting date : 2011, 3rd Jun.-9th Jun.

¹ Days after planting.

² Results within column followed by the same letter are not significantly different by LSD test at 0.05 level.

無子西瓜品種改良

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無子西瓜耐儲運性較佳，本計畫之育種目標為育成品質優良、糖度 12 °Brix 以上、小果(單果重≤3 公斤)、紅肉色及耐儲運之無子西瓜新品種，供產業參採。本(100)年度進行品系比較試驗及地方試種，品系比較試驗結果選

出 KPHC92147、KPHC92347、KPHC92547 及 KPHC92530 等 4 個優良品系晉入 100 年地方試種。地方試種結果顯示，KPHC92530 為綠皮紅肉新品系，果型指數為 1.09，屬於圓球形果(圖 1)，平均果種為 2,817 g，屬小果品種，可溶性固形物為 12.3 °Brix，較對照品種麗輝增加 1.8 °Brix，公頃產量為 18,786 kg，較對照品種麗輝增產 31%，差異顯著，櫛架壽命 30 天以上，KPHC92530 品系之色斑分布也大於對照品種麗輝(圖 2)，各級試驗無發現異型株，性狀穩定且表現具有一致性；本新品系擬於 101 年度申請品種權與辦理技術移轉。

表 1. 無子西瓜品系比較試驗

Table 1. The trail of seedless watermelon

Variety	Days of ¹ First female flower (day)	Harvest day ² (day)	Individual fruit wt. (g)	Fruit shape index	Peel thick (cm)	Total soluble solid (average) (°Brix)	Yield (kg/ha)	Yield index (%)	Flesh color
KPHC92122	29.6 a ³	40.5 b	3,870 a	0.98	1.20 bc	11.5 ab	15,062 ab	105	red
KPHC92322	31.5 a	42.4 a	2,930 abc	0.99	1.33 ab	11.7 ab	11,523 b	80	red
KPHC92322	31.3 a	42.2 a	2,130 c	0.96	0.87 d	11.3 ab	15,226 ab	106	red
KPHC92147	30.8 a	41.7 ab	3,400 ab	1.06	1.03 cd	11.1 ab	15,226 ab	106	red
KPHC92347	32.6 a	43.5 a	2,930 abc	1.05	1.33 ab	11.0 ab	18,827 a	131	red
KPHC92547	28.2 a	41.9 ab	2,470 bc	1.15	1.03 cd	12.1 a	19,959 a	139	red
KPHC92530	29.5 a	40.4 b	2,700 ab	1.03	1.43 a	12.3 a	18,786 a	131	red
麗輝(CK)	30.6 a	41.5 ab	2,330 bc	1.05	1.10 c	10.5 b	14,329 ab	100	red

Planting date : 2011, 14th Feb. Harvesting date:2011, 16th Jun-20th Jun.

¹ Days after planting.

² Days after pollination.

³ Results within column followed by the same letter are not significantly different by LSD test at 0.05 level.

表2. 無子西瓜地方試種

Table 2. The regional trial of seedless watermelon.

Variety	Days of ¹ First female flower (day)	Harvest day ² (day)	Avg. Fruit Weight (g)	Fruit shape index	Peel thick (cm)	Total soluble Solid (°Brix)	Yield (kg/ha)	Yield index (%)	Flesh color
KPHC92147	32.4 a ³	36.2 a	2,633 ab	1.05	1.07 a	12.1 ab	21,131 a	135	red
KPHC92347	33.5 a	37.3 a	2,450 ab	1.08	1.13 a	11.5 abc	19,660 a	125	red
KPHC92547	34.0 a	37.8 a	2,083 b	1.09	1.30 a	10.9 bc	16,718 b	106	red
KPHC92530	31.8 a	34.6 a	2,817 a	1.09	1.24 a	12.3 a	22,603 a	144	red
Le-hwei(CK)	30.7 a	34.7 a	2,483 ab	1.08	1.03 a	10.7 c	15,643 b	100	red

Planting date:2011, 11th Apr. Harvesting date:2011, 3rd Jul.-10th Jul.

¹ Days after planting.

² Days after pollination.

³ Results within column followed by the same letter are not significantly different by LSD test at 0.05 level.



圖 1.無子西瓜新品系 KPHC92530
之果實外觀與果肉顏色

Fig1. Fruit appearance and flesh
color of KPHC92530 line.

圖 2.無子西瓜新品系 KPHC92530(左)種子
與對照品種麗輝(右)的差異

Fig2. Seed different between
KPHC92530(left) and Le-hwei(right)
check variety.