

**Table (1):** Effect of fruit thinning rates on yield and biennial bearing index of Balady mandarin trees in 2006 and 2007 seasons.

Characters→ Seasons→ ↓Treatments	Fruit no./tree			Yield/tree (kg)			Relative yield			Biennial bearing index
	2006	2007	Mean	2006	2007	Mean	2006	2007	Mean	
Control	446.75	104.75	275.75	68.00	22.00	45.00	1.00	1.00	1.00	51.11
*Removing 20%	333.75	216.25	275.00	60.00	40.00	50.00	0.88	1.82	1.35	20.00
Removing 30%	305.25	235.00	270.13	58.00	45.00	51.50	0.85	2.05	1.45	12.62
Removing 40%	260.25	270.75	265.50	52.00	55.00	53.50	0.76	2.50	1.63	2.80
Removing 50%	238.55	278.25	258.40	50.00	54.00	52.00	0.73	2.45	1.59	3.84
L.S.D.	37.11	18.72	13.60	6.80	3.95	1.53	0.18	0.21		4.56

Removing 20% .... 50% of fruits number/tree.

**Table (2):** Effect of fruit thinning rates on some physical quality of Balady mandarin fruits in 2006 and 2007 seasons.

Characters→ Seasons→ ↓Treatments	Fruit weight (g)			Fruit height (cm)			Fruit width (cm)			Fruit shape index		
	2006	2007	Mean	2006	2007	Mean	2006	2007	Mean	2006	2007	Mean
Control	150	210	180.0	5.7	6.55	6.13	7.70	8.70	8.20	0.74	0.75	0.75
*Removing 20%	180	185	182.5	5.8	5.85	5.83	7.90	7.95	7.93	0.73	0.74	0.74
Removing 30%	190	193	191.5	6.0	5.95	5.98	8.10	8.15	8.13	0.74	0.73	0.74
Removing 40%	202	203	202.5	6.1	6.05	6.08	8.23	8.20	8.22	0.74	0.74	0.74
Removing 50%	206	202	204.0	6.2	6.15	6.18	8.45	8.30	8.38	0.73	0.74	0.74
L.S.D.	6.39	8.52	6.59	0.19	0.07	0.06	0.27	0.13	0.09	N.S.	N.S.	N.S.

Removing 20% .... 50% of fruits number/tree.

**Table (3):** Effect of fruit thinning rates on T.S.S., acidity and TSS/acid ratio of Balady mandarin fruit juice in 2006 and 2007 seasons.

Characters→ Seasons→ ↓Treatments	T.S.S.			Acidity			T.S.S./Acidity		
	2006	2007	Mean	2006	2007	Mean	2006	2007	Mean
Control	12.00	11.20	11.60	1.37	1.28	1.33	8.76	8.75	8.75
*Removing 20%	12.42	12.60	12.51	1.29	1.25	1.27	9.63	10.08	9.85
Removing 30%	12.80	12.50	12.65	1.32	1.33	1.33	9.70	9.40	9.55
Removing 40%	13.00	12.80	12.90	1.28	1.21	1.25	10.16	10.58	10.37
Removing 50%	13.10	12.60	12.85	1.28	1.20	1.24	10.23	10.50	10.37
L.S.D.	0.34	0.24	0.08	0.03	0.02	0.01	0.53	0.46	0.22

Removing 20% .... 50% of fruits number/tree.

**Table (4):** Effect of fruit thinning rates on sugar contents and V.C. of Balady mandarin fruit juice in 2006 and 2007 seasons.

Characters→ Seasons→ ↓Treatments	Total sugar %			Reducing sugar %			V.C. mg/100 ml		
	2006	2007	Mean	2006	2007	Mean	2006	2007	Mean
Control	8.05	7.75	7.90	3.60	3.50	3.55	54.90	55.30	55.10
*Removing 20%	8.34	8.00	8.17	3.70	3.88	3.79	54.10	57.20	55.65
Removing 30%	8.50	8.15	8.33	3.68	3.76	3.72	54.50	58.40	56.45
Removing 40%	8.55	8.30	8.43	3.90	3.80	3.85	60.27	59.10	59.69
Removing 50%	8.50	8.20	8.35	3.75	3.55	3.65	57.64	56.65	57.15
L.S.D.	0.26	0.19	0.09	0.06	0.08	0.03	1.97	1.78	0.63

Removing 20% .... 50% of fruits number/tree.