

**YIELD AND FRUIT QUALITY RESULTS FROM CANOPY – CROP LOAD STUDY:
NECTARINE ‘AUTUMN BRIGHT’**

Table 1 presents production results (yield, fruit quality) for nectarine ‘Autumn Bright’ under crop load treatments (high, medium, low) for Vertical Leader and Tatura Trellis canopy systems for 7 consecutive seasons: 2015/16, 2016/17, 2017/18, 2018/19, 2019/20, 2020/21 and 2021/22, respectively at Tatura, Victoria, Australia.

Table 1. Production parameters in response to crop load treatments (Low, Medium, High) of ‘Autumn Bright’ nectarine under two canopy architectures (Tatura Trellis, Vertical Leader) during seasons 2015/16, 2016/17, 2017/18, 2018/19, 2019/20, 2020/21 and 2021/22 (season 1 – 7).

Crop load	Fruit number (#/tree)	Fruit weight (g)	Yield (kg/tree)	Sweetness (°Brix)	Maturity (I _{AD})	Firmness (kgf)	Skin colour (% red)
<i>Season 1: Vertical Leader</i>							
Low	62 a	143 c	8.7 a	15.9 c	0.5	5.1 b	84
Medium	105 b	120 b	12.3 b	14.6 b	0.5	4.9 ab	84
High	155 c	102 a	15.1 c	13.4 a	0.5	4.6 a	85
ANOVA	***	***	***	***	ns	**	ns
<i>Season 1: Tatura Trellis</i>							
Low	58 a	142 c	8.3 a	17.0 c	0.6	5.8 b	80
Medium	108 b	126 b	13.5 b	15.9 b	0.5	5.1 a	81
High	142 c	112 a	15.3 b	14.6 a	0.6	5.3 a	81
ANOVA	***	***	***	***	ns	***	ns
<i>Season 2: Vertical Leader</i>							
Low	46	171 b	3.0 a	13.6 b	0.7	6.7	32
Medium	54	150 a	4.2 b	13.2 ab	0.8	6.7	34
High	51	142 a	2.9 a	12.9 a	0.8	6.6	33
ANOVA	ns	**	*	**	ns	ns	ns
<i>Season 2: Tatura Trellis</i>							
Low	63 a	132	2.2	13.7	0.9	6.9 b	24
Medium	85 b	122	3.3	13.5	0.8	6.7 a	26
High	95 b	118	4.0	13.5	0.8	6.6 a	28
ANOVA	*	ns	ns	ns	ns	***	ns
<i>Season 3: Vertical Leader</i>							
Low	46 a	161 b	7.3 a	14.7 b	0.9	7.1	50 a
Medium	64 a	151 b	9.6 b	14.8 b	0.8	7.0	56 b
High	118 b	118 a	13.8 c	14.3 a	0.9	7.0	53 ab
ANOVA	***	***	***	**	ns	ns	**
<i>Season 3: Tatura Trellis</i>							
Low	64 a	145 b	9.2 a	15.0 b	1.1 b	7.5 b	44 a
Medium	84 a	138 b	11.6 b	15.1 b	1.0 b	7.4 b	46 a
High	144 b	113 a	15.8 c	14.6 a	1.0 a	7.2 a	50 b
ANOVA	***	***	***	*	**	***	**
<i>Season 4: Vertical Leader</i>							
Low	116 a	95 b	10.7 a	14.5 b	1.2 b	7.4 b	52 a
Medium	173 b	74 a	12.7 b	14.3 a	1.1 a	7.2 a	60 c
High	188 b	73 a	13.2 b	14.3 a	1.1 a	7.2 a	57 b

ANOVA	***	***	**	***	***	***	***
<i>Season 4: Tatura Trellis</i>							
Low	48 a	98 c	4.6 a	14.7 c	1.3 c	7.8 c	42 a
Medium	93 b	75 b	6.9 b	14.1 b	1.3 b	7.5 c	47 b
High	116 c	67 a	7.5 b	13.9 a	1.2 a	7.4 a	48 c
ANOVA	***	***	***	***	***	***	***
<i>Season 5: Vertical Leader</i>							
Low	102 a	143 b	14.3 a	15.0 b	0.4 a	6.2 ab	74 a
Medium	89 a	141 b	12.1 a	15.1 b	0.4 a	6.2 a	77 b
High	175 b	105 a	17.6 b	14.5 a	0.5 b	6.3 b	74 a
ANOVA	***	***	***	***	***	*	*
<i>Season 5: Tatura Trellis</i>							
Low	50 a	140 b	7.0 a	15.7 b	0.7	6.7 c	70
Medium	51 a	138 b	6.9 a	15.6 b	0.7	6.6 b	69
High	99 b	105 a	9.7 b	14.6 a	0.7	6.5 a	69
ANOVA	***	***	***	***	ns	***	ns
<i>Season 6: Vertical Leader</i>							
Low	109	133 b	14.4	14.3	1.1 b	7.4 b	49 a
Medium	99	130 ab	12.7	14.5	1.1 b	7.4 b	53 b
High	118	118 a	13.2	14.5	0.9 a	7.2 a	54 b
ANOVA	ns	*	ns	ns	**	*	**
<i>Season 6: Tatura Trellis</i>							
Low	76	147	11.0	14.7	0.8	7.1	52 a
Medium	94	134	12.5	14.6	0.8	7.0	57 b
High	74	137	9.7	14.7	0.8	7.1	57 b
ANOVA	ns	ns	ns	ns	ns	ns	**
<i>Season 7: Vertical Leader</i>							
Low	78 a	136 c	10.4 a	14.5 c	0.9 a	6.8	58 a
Medium	134 b	113 b	14.9 b	14.1 b	0.9 a	6.8	65 b
High	244 c	136 c	19.8 c	13.3 a	1.0 b	6.7	62 ab
ANOVA	***	***	***	***	***	ns	**
<i>Season 7: Tatura Trellis</i>							
Low	85 a	85 c	12.5 a	15.0 c	1.0	7.3 b	49
Medium	148 b	122 b	18.1 b	14.4 b	1.1	7.2 b	48
High	251 c	148 a	21.3 c	13.5 a	1.0	6.9 a	51
ANOVA	***	***	***	***	ns	***	ns

ns, *, ** and *** indicate non-significant or significant differences at $P < 0.05$, 0.01 or 0.001, respectively, for the two-way interaction crop load treatments.