

Table 1. Effect of vitamin C (Vit.C) and active dry yeast (D.Y.) as foliar spray application at beginning of fruit set or at 20 days later and their interactions on mango cv. Hendy Moloky fruit weight and size during 2004 and 2005 seasons

D.Y. (1 %) spraying at:	Vit. C (0.0.5 %) spraying at:							
	Without spraying	Fruit set	20 days after fruit set	Mean	Without spraying	Fruit set	20 days after fruit set	Mean
	Fruit weight (g)				Fruit size (cm3)			
<i>2004 Season</i>								
Without spraying	279.57	311.63	346.96	312.72	300.00	324.33	326.00	316.78
Fruit set	363.97	367.82	335.39	355.73	337.67	342.67	335.00	338.45
20 days after fruit set	333.00	341.23	340.25	338.16	324.00	305.00	310.67	313.22
Mean	325.51	340.23	340.87	---	320.56	324.00	323.89	---
New L.S.D. at 0.05 for:	Vit. C = 11.25, D. Y. = 5.28, Inter. = 18.36				Vit. C = NS, D. Y. = 17.44, Inter. = NS			
<i>2005Season</i>								
Without spraying	299.83	327.62	341.30	322.92	266.67	270.00	315.00	283.89
Fruit set	341.83	315.64	310.57	322.68	318.33	343.33	333.33	331.66
20 days after fruit set	314.75	329.03	338.63	327.47	327.50	345.00	325.00	332.50
Mean	318.80	324.10	330.17	---	304.17	319.44	324.44	---
New L.S.D. at 0.05 for:	Vit. C= NS, D.Y.= NS, Inter. = 18.36				Vit. C = 10.37, D. Y. = 7.17, Inter. = 17.69			

Table 2. Effect of vitamin C (Vit.C) and active dry yeast (D.Y.) as foliar spray application at beginning of fruit set or at 20 days later and their interactions on fruit peel and pulp weight as well as peel to pulp ratio of mango cv. HENDY Moloky during 2004 and 2005 seasons

D.Y. (1 %) spraying at:	Vit. C (0.0.5 %) spraying at:											
	Without spraying	Fruit set	20 days after fruit set	Mean	Without spraying	Fruit set	20 days after fruit set	Mean	Without spraying	Fruit set	20 days after fruit set	Mean
	Peel weight (g)				Pulp weight (g)				Peel to pulp ratio (%)			
	<i>2004 Season</i>											
Without spraying	71.53	75.50	80.25	75.76	172.03	185.50	215.38	190.97	44.58	40.70	37.26	39.85
Fruit set	87.14	86.16	80.17	84.49	213.61	211.15	206.83	210.53	40.79	40.81	38.76	40.12
20 days after fruit set	81.05	81.13	83.85	82.01	196.23	203.02	181.13	193.46	41.30	39.96	46.29	42.52
Mean	79.91	80.93	81.42	---	193.96	199.89	201.11	---	44.04	40.49	40.77	---
New L.S.D. at 0.05 for:	Vit.C = NS, D.Y. = 5.37, Inter = 7.08				Vit.C = 8.73, D.Y.= 14.06, Inter = 14.85				Vit.C= NS, D.Y. = 1.00, Inter = 6.00			
<i>2005 Season</i>												
Without spraying	68.07	68.94	79.37	72.13	196.37	217.01	198.20	203.26	34.66	31.77	40.05	35.49
Fruit set	89.07	98.32	83.32	90.24	213.68	199.94	223.43	212.35	41.68	49.18	37.29	42.71
20 days after fruit set	80.67	83.20	84.47	82.78	197.78	216.43	212.72	208.98	40.79	38.44	39.71	39.65
Mean	79.27	83.49	82.39	--	202.61	211.13	211.45	---	39.04	39.80	39.09	
New L.S.D. at 0.05 for:	Vit. C.= 3.57, D.Y. = 1.62, Inter = 6.32				Vit. C = NS, D.Y. = 7.05, Inter = 11.09				Vit. C= NS, D.Y. = 1.00, Inter = 4.00			

Table 3. Effect of vitamin C (Vit.C) and active dry yeast (D.Y.) as foliar spray application at beginning of fruit set or at 20 days later and their interactions on some fruit chemical constituents of mango cv. Hendy Moloky during 2004 and 2005 seasons

D.Y. (1%) spraying at:	Vit. C (0.05%) spraying at:															
	Without spraying	Fruit set	20 days after fruit set	Mean	Without spraying	Fruit set	20 days after fruit set	Mean	Without spraying	Fruit set	20 days after fruit set	Mean	Without spraying	Fruit set	20 days after fruit set	Mean
	TSS (%)				Acidity (%)				TSS/ acid ratio				Vit.C (mg/100 ml juice)			
	2004 Season															
Without spraying	18.00	18.50	18.67	18.39	0.67	0.64	0.67	0.66	27.02	28.94	27.99	27.98	46.71	47.97	53.19	49.29
Fruit set	18.67	19.83	19.00	19.17	0.60	0.61	0.58	0.60	31.17	32.73	32.67	32.19	50.57	53.48	48.19	50.75
20 days after fruit set	18.83	19.83	19.33	19.33	0.67	0.56	0.56	0.60	28.26	35.43	34.65	32.78	47.09	49.56	47.02	47.89
Mean	18.50	19.39	19.00	---	0.65	0.60	0.60	---	28.82	32.37	31.77	---	48.12	50.34	49.47	---
New L.S.D. at 0.05 for:	Vit.C = 0.41, D.Y =0.61 Inter =NS				Vit.C = 0.02, D.Y =0.02 Inter = 0.03				Vit.C = 0.91,D.Y =1.19, Inter =1.64				Vit.C = 1.75, D.Y =2.22, Inter =2.95			
2005 Season																
Without spraying	17.00	17.00	18.83	17.61	0.53	0.50	0.52	0.52	31.89	33.78	36.23	33.97	43.25	50.55	45.47	46.42
Fruit set	19.17	20.17	19.17	19.50	0.45	0.53	0.50	0.49	42.70	38.20	38.42	39.77	47.28	49.92	46.99	48.06
20 days after fruit set	17.33	19.33	17.33	18.00	0.53	0.52	0.45	0.50	32.59	37.20	38.74	36.18	45.20	46.42	47.89	46.50
Mean	17.83	18.83	18.44	---	0.50	0.52	0.49	---	35.73	36.39	37.80	---	45.24	48.96	46.78	---
New L.S.D. at 0.05 for:	Vit.C = 0.63, D.Y = 0.62, Inter =1.07				Vit.C = 0.02, D.Y =0.01, Inter = 0.03				Vit.C = 1.36, D.Y =1.30, Inter =4.16				Vit.C = NS, D.Y = 0.01, Inter = NS			

Table 4. Effect of vitamin C (Vit.C) and active dry yeast (D.Y.) as foliar spray application at beginning of fruit set or at 20 days later and their interactions on some leaf characteristics of mango cv. Hendy Moloky during 2004 and 2005 seasons

D.Y. (1 %) spraying at:	Vit. C (0.0.5 %) spraying at:															
	Without spraying	Fruit set	20 days after fruit set	Mean	Without spraying	Fruit set	20 days after fruit set	Mean	Without spraying	Fruit set	20 days after fruit set	Mean	Without spraying	Fruit set	20 days after fruit set	Mean
	Leaf fresh weight (g)				Leaf dry weight (g)				Leaf hydration ratio (%)				Leaf area (cm ²)			
2004 season																
Without spraying	1.86	2.89	2.50	2.42	0.91	1.40	0.93	1.08	51.08	51.56	62.80	55.15	44.20	52.67	44.50	47.12
Fruit set	2.14	2.46	2.35	2.32	1.01	1.01	1.03	1.02	52.80	58.94	56.17	55.97	47.47	45.13	45.67	46.09
20 days after fruit set	3.28	3.26	3.23	3.26	1.10	1.41	1.40	1.30	66.46	56.75	56.66	59.96	50.80	48.60	51.13	50.18
Mean	2.43	2.87	2.69	--	1.01	1.27	1.12	---	56.78	55.75	58.54	---	47.49	48.80	47.10	---
New L.S.D. at 0.05 for:	Vit.C =0.32, D.Y =0.22, Inter=NS				Vit.C = 0.06, D.Y =0.07, Inter=0.11				Vit.C = 2.71, D.Y = 2.19, Inter =3.64				Vit.C = 1.60, D.Y =1.93, Inter =2.66			
2005 season																
Without spraying	2.35	2.98	3.68	3.00	1.19	1.40	1.36	1.32	49.36	53.02	63.04	55.14	46.80	47.03	51.47	48.43
Fruit set	2.42	2.43	2.55	2.47	1.32	1.27	1.34	1.31	45.46	47.74	47.45	46.88	49.00	46.83	46.87	47.57
20 days after fruit set	2.44	3.26	3.68	3.13	1.56	1.62	1.72	1.63	36.07	50.31	53.26	43.21	54.00	52.20	52.47	52.89
Mean	2.40	2.89	3.30	---	1.36	1.43	1.47	---	43.63	50.36	54.58	---	49.93	48.69	50.27	---
New L.S.D. at 0.05 for:	Vit.C = 0.16, D.Y =0.16, Inter =0.28				Vit.C = NS, D.Y =0.11, Inter =NS				Vit.C = 1.36, D.Y = 1.30, Inter = 2.16				Vit.C = NS, D.Y =1.82, Inter =2.96			

Table 5. Effect of vitamin C (Vit.C) and active dry yeast (D.Y.) as foliar spray application at beginning of fruit set or at 20 days later and their interactions on photosynthetic pigments in leaf blade tissues of mango cv. Hedy Moloky during 2004 and 2005 seasons

D.Y. (1 %) spraying at:	Vit. C (0.05 %) spraying at:															
	Without spraying	Fruit set	20 days after fruit set	Mean	Without spraying	Fruit set	20 days after fruit set	Mean	Without spraying	Fruit set	20 days after fruit set	Mean	Without spraying	Fruit set	20 days after fruit set	Mean
	Chlorophyll a (mg/g. F.W)				Chlorophyll b (mg/g. F.W)				Total chlorophyll a +b (mg/g. F.W)				Carotenoides (mg/g. F.W)			
<i>2004 Season</i>																
Without spraying	0.545	0.543	0.672	0.587	0.523	0.596	0.494	0.538	1.068	1.039	1.166	1.091	0.461	0.466	0.558	0.495
Fruit set	0.552	0.552	0.544	0.548	0.485	0.547	0.559	0.530	1.037	1.099	1.100	1.079	0.487	0.485	0.496	0.489
20 days after fruit set	0.563	0.744	0.567	0.625	0.587	0.712	0.620	0.640	1.150	1.456	1.187	1.264	0.496	0.595	0.539	0.543
Mean	0.553	0.613	0.593	--	0.532	0.618	0.558	---	1.085	1.198	1.151	--	0.481	0.515	0.531	---
New L.S.D. at 0.05 for:	Vit.C =0.027, D.Y =0.036, Inter = 0.047				Vit.C = 0.040, D.Y = 0.035, Inter = 0.070				Vit.C = 0.057, D.Y =0.058, Inter =0.099				Vit.C = 0.044, D.Y = 0.042, Inter = NS			
<i>2005 Season</i>																
Without spraying	0.540	0.570	0.587	0.566	0.571	0.569	0.592	0.577	1.122	1.133	1.174	1.143	0.555	0.465	0.627	0.549
Fruit set	0.616	0.574	0.568	0.586	0.532	0.581	0.589	0.567	1.184	1.168	1.166	1.173	0.558	0.631	0.522	0.570
20 days after fruit set	0.517	0.589	0.658	0.588	0.719	0.897	0.719	0.778	1.247	1.479	1.387	1.371	0.610	0.617	0.555	0.594
Mean	0.558	0.578	0.604	---	0.607	0.682	0.633	---	1.184	1.260	1.242	---	0.574	0.571	0.568	---
New L.S.D. at 0.05 for:	Vit.C = NS, D.Y = NS, Inter = NS				Vit.C = 0.039, D.Y = 0.060, Inter = 0.068				Vit.C = 0.058, D.Y = 0.090, Inter = 0.102				Vit.C = NS, D.Y = 0.023, Inter = 0.059			