

**Table 1: Effect of some modified atmosphere (MA) treatments and cold storage periods on chilling injury index (CII) and fruit decay % (FD %) of Balady lime fruits after cold storage periods (2010 and 2011 seasons).**

Storage period (days) MA treatments	Chilling injury index♦					Fruit decay %				
	30	60	90	105	Mean	30	60	90	105	Mean
	<i>1<sup>st</sup> Season</i>									
Packing in plastic nets (Control)	2.87fg	4.17cd	5.00b	7.17a	<b>4.80A</b>	0.00i	19.5f	35.4e	41.9d	<b>24.2C</b>
Passive MA without additions	0.00i	3.20ef	4.40bc	7.57a	<b>3.79B</b>	0.00i	23.5f	40.3de	100.0a	<b>40.9B</b>
Passive MA with adding 25g wetted Ca (OH) <sub>2</sub> per sealed package.	0.00i	2.03h	2.33gh	3.07f	<b>1.86C</b>	7.50h	12.8g	24.1f	40.3de	<b>21.2C</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	0.14i	3.73de	4.57bc	7.00a	<b>3.86B</b>	4.00hi	20.3f	52.1c	100.0a	<b>44.1A</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	0.16i	3.97cd	4.90b	7.33a	<b>4.09B</b>	5.27hi	23.5f	57.2b	100.0a	<b>46.5A</b>
<b>Mean</b>	<b>0.63D</b>	<b>3.42C</b>	<b>4.24B</b>	<b>6.43A</b>	-	<b>3.35D</b>	<b>19.9C</b>	<b>41.8B</b>	<b>76.4A</b>	-
<i>2<sup>nd</sup> Season</i>										
Packing in plastic nets (Control)	1.77h	4.30d	5.57c	7.03b	<b>4.67A</b>	0.00h	3.57h	25.e	41.0d	<b>17.6E</b>
Passive MA without additions	0.00i	3.57ef	4.33d	7.80a	<b>3.93B</b>	0.00h	22.5ef	37.8d	100.0a	<b>40.1C</b>
Passive MA with adding 25g wetted Ca (OH) <sub>2</sub> per sealed package.	0.00i	1.73h	2.23h	3.00g	<b>1.74D</b>	3.87h	14.7g	22.9ef	41.1d	<b>20.6D</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	0.35i	3.27fg	4.10de	6.50b	<b>3.55C</b>	1.67h	22.1ef	50.0c	100.0a	<b>43.4B</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	0.03i	3.60ef	4.10de	6.83b	<b>3.64C</b>	3.87h	18.9f	61.0b	100.0a	<b>45.9A</b>
<b>Mean</b>	<b>0.43D</b>	<b>3.29C</b>	<b>4.07B</b>	<b>6.23A</b>	-	<b>1.88D</b>	<b>16.3C</b>	<b>39.5B</b>	<b>76.4A</b>	-

Means within each column followed by the same letter (s) are not significantly different at 5% level.

♦ Chilling injury index (0=without decay; 2=spot decay; 4=25-50% decay; 8=>50 % decay).

Fruits of MA treatments, except of control treatment, were packed in carton boxes at rate of 190±10 g fruits / liter.

**Table 2: Effect of some modified atmosphere (MA) treatments and cold storage periods on chilling injury index (CII) and fruit decay (FD) percentage of Balady lime fruits after shelf life period (2010 and 2011 seasons).**

Storage period (days)	Chilling Injury Index♦				Fruit decay %			
	30	60	90	Mean	30	60	90	Mean
<i>1<sup>st</sup> Season</i>								
Packing in plastic nets (Control)	0.00j	3.63fg	5.97b	<b>3.20B</b>	0.00g	0.00g	0.00g	<b>0.00D</b>
Passive MA without additions	0.00j	3.40gh	5.17c	<b>2.86C</b>	6.70f	54.60b	65.67a	<b>42.3A</b>
Passive MA with adding 25g wetted Ca (OH) 2 per sealed package.	0.00j	2.43i	4.50de	<b>2.31D</b>	9.80ef	17.73d	62.47a	<b>30.0B</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	0.00j	4.10ef	6.97a	<b>3.69A</b>	8.83ef	19.67d	64.93a	<b>31.1B</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	0.00j	2.97h	4.93cd	<b>2.63C</b>	8.86ef	13.20e	34.03c	<b>18.7C</b>
<b>Mean</b>	<b>0.00C</b>	<b>3.31B</b>	<b>5.51A</b>	-	<b>6.84C</b>	<b>21.04B</b>	<b>45.42A</b>	-
<i>2<sup>nd</sup> Season</i>								
Packing in plastic nets (Control)	0.00h	3.57f	6.87a	<b>3.48A</b>	0.00h	0.00h	0.00h	<b>0.00D</b>
Passive MA without additions	0.00h	3.43f	5.20c	<b>2.88B</b>	5.23g	46.63c	55.43b	<b>35.8A</b>
Passive MA with adding 25g wetted Ca (OH) 2 per sealed package.	0.00h	2.53g	4.53d	<b>2.36C</b>	7.63g	22.87e	57.23b	<b>29.2B</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	0.00h	4.20de	5.83b	<b>3.34A</b>	7.10g	16.63f	62.07a	<b>28.6B</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	0.00h	3.20f	4.00e	<b>2.40C</b>	6.50g	23.00e	41.37d	<b>23.6C</b>
<b>Mean</b>	<b>0.00C</b>	<b>3.39B</b>	<b>5.29A</b>	-	<b>5.29C</b>	<b>21.83B</b>	<b>43.22A</b>	-

Means within each column followed by the same letter (s) are not significantly different at 5% level.

♦Chilling injury index (0=without decay; 2=spot decay; 4=25-50% decay; 8=>50 % decay).

Fruits of MA treatments, except of control treatment, were packed in sealed carton boxes at rate of 190±10 g fruits / liter.

**Table 3: Effect of some modified atmosphere (MA) treatments and cold storage periods on fruit weight loss % (FWL), peel color index (PCI) and pulp firmness (PF) of Balady lime fruits after cold storage periods (2010 and 2011 seasons).**

Storage period (days) MA treatment	Fruit weight loss %				Peel color index*				Pulp firmness ( kg/cm <sup>2</sup> )			
	30	60	90	Mean	30	60	90	Mean	30	60	90	Mean
<i>1<sup>st</sup> Season</i>												
Packing in plastic nets (Control)	18.6b	38.0a	36.3a	<b>30.9A</b>	2.33fg	2.60ef	3.33cd	<b>2.76D</b>	1.36a	1.55a	1.63a	<b>1.51A</b>
Passive MA without additions	2.33h	8.53g	7.87g	<b>6.24C</b>	2.63e	3.43bc	4.00a	<b>3.36A</b>	.763bcd	.977b	.887bc	<b>0.88B</b>
Passive MA with adding 25g wetted Ca(OH) <sub>2</sub> per sealed package.	2.43h	8.53g	9.53fg	<b>6.83C</b>	2.63e	3.40c	3.70b	<b>3.24A</b>	.673cde	.613cde	.563de	<b>0.62CD</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	2.47h	13.5de	16.5bc	<b>10.8B</b>	2.23g	3.07d	3.47bc	<b>2.92C</b>	.567de	.460de	.447e	<b>0.49D</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	2.47h	11.5ef	15.5cd	<b>9.84B</b>	2.33fg	3.33cd	3.57bc	<b>3.08B</b>	1.03b	.650cde	.613cde	<b>0.77BC</b>
<b>Mean</b>	<b>5.67C</b>	<b>16.0B</b>	<b>17.1A</b>	-	<b>2.43C</b>	<b>3.17B</b>	<b>3.61A</b>	-	<b>.880A</b>	<b>.851A</b>	<b>.827A</b>	-
<i>2<sup>nd</sup> Season</i>												
Packing in plastic nets (Control)	20.8b	41.3a	40.3a	<b>34.1A</b>	2.53d	2.53d	3.60abc	<b>2.89B</b>	1.18c	1.47b	1.70a	<b>1.45A</b>
Passive MA without additions	2.10h	7.93g	9.80fg	<b>6.61C</b>	2.57d	3.50bc	4.00a	<b>3.36A</b>	.860de	.927d	.842de	<b>0.88B</b>
Passive MA with adding 25g wetted Ca(OH) <sub>2</sub> per sealed package.	2.60h	8.80g	9.80fg	<b>7.07C</b>	2.30d	3.50bc	3.83ab	<b>3.21A</b>	.673f	.510f	.490f	<b>0.56D</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	3.03h	11.4ef	15.3c	<b>9.90B</b>	2.57d	3.27c	3.57bc	<b>3.13A</b>	.540f	.447f	.470f	<b>0.49E</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	2.63h	13.1de	14.7cd	<b>10.1B</b>	2.43d	3.53bc	3.77a0b	<b>3.24A</b>	.907d	.757ef	.690f	<b>0.78C</b>
<b>Mean</b>	<b>6.23C</b>	<b>16.5B</b>	<b>18.0A</b>	-	<b>2.48C</b>	<b>3.27B</b>	<b>3.75A</b>	-	<b>.831A</b>	<b>.821A</b>	<b>.839A</b>	-

Means within each column followed by the same letter (s) are not significantly different at 5% level.

\* 1 = 100 % green; 2 = < 25 % yellow; 3 = 26-50 % yellow and 4 = > 50 % yellow.

Fruits of MA treatments, except of control treatment, were packed in sealed carton boxes at rate of 190±10 g fruits / liter.

**Table 4 : Effect of some modified atmosphere (MA) treatments and cold storage periods on fruit weight loss % (FWL), peel color index (PCI) and pulp firmness (PF) of Balady lime fruits after shelf life period (2010 and 2011 seasons).**

Storage period (days) MA treatment	Fruit weight loss				Peel color				Pulp firmness			
	30	60	90	Mean	30	60	90	Mean	30	60	90	Mean
<i>1<sup>st</sup> Season</i>												
Packing in plastic nets (Control)	18.1d	13.3ef	16.0de	<b>15.8C</b>	2.73e	3.17d	3.43c	<b>3.11C</b>	1.03bcd	.930de	1.00cd	<b>.988A</b>
Passive MA without additions	13.1ef	15.1e	29.9b	<b>19.4B</b>	3.00de	3.93a	4.00a	<b>3.64A</b>	1.06bc	.923de	.857ef	<b>.947AB</b>
Passive MA with adding 25g wetted Ca (OH) <sub>2</sub> per sealed package.	11.4fg	9.90g	38.9a	<b>20.1B</b>	2.33f	3.77ab	4.00a	<b>3.37B</b>	1.09abc	.843ef	.840ef	<b>.926AB</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	10.6fg	22.8c	40.4a	<b>24.6A</b>	2.37f	3.63bc	4.00a	<b>3.33B</b>	1.19a	.877ef	.867ef	<b>.977A</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	6.80h	25.3c	29.4b	<b>20.5B</b>	2.73e	3.87ab	4.00a	<b>3.53A</b>	1.13ab	.760f	.763f	<b>.886B</b>
<b>Mean</b>	<b>12.0C</b>	<b>17.3B</b>	<b>30.9A</b>	-	<b>2.63C</b>	<b>3.67B</b>	<b>3.89A</b>	-	<b>1.10A</b>	<b>.867B</b>	<b>.865B</b>	-
<i>2<sup>nd</sup> Season</i>												
Packing in plastic nets (Control)	19.7de	12.8gh	18.1ef	<b>16.9C</b>	2.80ef	2.97e	3.43d	<b>3.07C</b>	1.02a	.857a	.850a	<b>.908B</b>
Passive MA without additions	14.7fg	19.1e	31.8b	<b>21.9AB</b>	2.77ef	3.93ab	4.00a	<b>3.57A</b>	1.14a	.983a	.857a	<b>.994A</b>
Passive MA with adding 25g wetted Ca (OH) <sub>2</sub> per sealed package.	9.13ij	12.1ghi	39.8a	<b>20.3B</b>	2.63fg	3.67bcd	3.93ab	<b>3.41AB</b>	1.20a	.923a	.903a	<b>1.01A</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	10.1hi	22.9cd	37.9a	<b>23.6A</b>	2.43g	3.60cd	4.00a	<b>3.34B</b>	1.19a	1.10a	.933a	<b>1.07A</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	6.03j	23.9c	34.0b	<b>21.3B</b>	2.47g	3.83abc	4.00a	<b>3.43AB</b>	1.20a	.920a	.893a	<b>1.01A</b>
<b>Mean</b>	<b>11.9C</b>	<b>18.2B</b>	<b>32.3A</b>	-	<b>2.62C</b>	<b>3.60B</b>	<b>3.87A</b>	-	<b>1.15A</b>	<b>.957B</b>	<b>.887C</b>	-

Means within each column followed by the same letter (s) are not significantly different at 5% level.

\* 1 = 100 % green; 2 = < 25 % yellow; 3 = 26-50 % yellow and 4 = > 50 % yellow.

Fruits of MA treatments, except of control treatment, were packed in sealed carton boxes at rate of 190±10 g fruits / liter.

**Table 5: Effect of some modified atmosphere (MA) treatments and cold storage periods on juice and TSS percentages as well as vitamin C content of Balady lime fruits after cold storage periods (2010 and 2011 seasons).**

Storage period (days) MA treatment	Juice %				TSS %				Vit. C (mg/ 100 cm <sup>3</sup> juice)			
	30	60	90	Mean	30	60	90	Mean	30	60	90	Mean
<i>1<sup>st</sup> Season</i>												
Packing in plastic nets (Control)	33.4bc	31.9cd	38.3a	34.5A	9.10cd	10.4a	10.6a	10.0A	55.0ab	36.8c	35.5c	42.4A
Passive MA without additions	25.5gh	26.4fg	28.6ef	26.8C	9.23c	9.33c	9.47bc	9.34B	37.0c	44.8abc	41.5bc	41.1A
Passive MA with adding 25g wetted Ca (OH) 2 per sealed package.	29.9de	28.2ef	35.5b	31.2B	9.13cd	9.10cd	9.43bc	9.22B	56.1ab	38.0c	30.8c	41.6A
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	23.9h	21.6i	27.7efg	24.4D	9.23c	9.27c	9.73b	9.41B	57.8a	45.3abc	32.0c	45.0A
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	28.6ef	33.5bc	38.4a	33.5A	8.77de	8.63e	8.83de	8.74C	57.2a	41.4bc	33.0c	43.9A
<b>Mean</b>	<b>28.2B</b>	<b>28.3B</b>	<b>33.7A</b>	-	<b>9.09C</b>	<b>9.35B</b>	<b>9.61A</b>	-	<b>52.6A</b>	<b>41.3B</b>	<b>34.6C</b>	-
<i>2nd Season</i>												
Packing in plastic nets (Control)	37.0c	32.7e	41.0a	36.9A	8.97e	10.1b	10.8a	9.96A	57.2a	38.7b-e	35.0def	43.6A
Passive MA without additions	27.3hi	27.0i	28.6gh	27.6C	9.27cde	9.50c	10.3b	9.68B	56.1a	41.4bc	40.5bcd	46.0A
Passive MA with adding 25g wetted Ca (OH) 2 per sealed package.	30.8f	29.4fg	34.4d	31.5B	9.13de	9.23cde	9.53c	9.30C	53.3a	43.2bc	37.5cde	44.7A
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	24.6j	22.0k	30.4f	25.7D	9.23cde	9.07e	9.53c	9.28C	55.0a	43.0bc	34.0ef	44.0A
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	29.8fg	39.0b	40.5a	36.4A	9.03e	9.00e	9.47cd	9.17C	58.9a	43.9bc	31.0f	44.6A
<b>Mean</b>	<b>29.9B</b>	<b>30.0B</b>	<b>35.0A</b>	-	<b>9.13C</b>	<b>9.37B</b>	<b>9.93A</b>	-	<b>56.1A</b>	<b>42.0B</b>	<b>35.6C</b>	-

Means within each column followed by the same letter (s) are not significantly different at 5% level.

Fruits of all MA treatments , except of control treatment, were packed in sealed carton boxes at rate of 190±10 g fruits / liter.

**Table 6: Effect of some modified atmosphere (MA) treatments and cold storage periods on juice and TSS percentages as well as vitamin C content of Balady lime fruits after shelf life period (2010 and 2011 seasons).**

Storage period (days) MA treatment	Juice%				TSS%				Vit. C (mg/ 100 cm <sup>3</sup> juice)			
	30	60	90	Mean	30	60	90	Mean	30	60	90	Mean
	<i>1<sup>st</sup> Season</i>											
Packing in plastic nets (Control)	28.4h	29.4gh	37.0bc	<b>31.6D</b>	10.2b	10.1b	10.8a	<b>10.4A</b>	39.7a	35.8a	34.2a	<b>36.6A</b>
Passive MA without additions	36.9bcd	37.5b	46.5a	<b>40.3A</b>	9.23c	9.10c	9.10c	<b>9.14B</b>	35.6a	33.1a	31.6a	<b>33.4BC</b>
Passive MA with adding 25g wetted Ca(OH) <sub>2</sub> per sealed package.	36.3bcd	35.3def	35.5def	<b>35.7B</b>	9.13c	9.03c	9.10c	<b>9.09B</b>	36.2a	33.7a	32.5a	<b>34.1B</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	32.2f	30.8fg	35.3def	<b>32.8C</b>	8.90cd	9.17c	8.87cd	<b>8.98B</b>	35.4a	31.1a	28.5a	<b>31.7C</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	35.4def	34.1e	35.1de	<b>34.9B</b>	8.60d	9.13c	9.03c	<b>8.92B</b>	23.3a	21.9a	21.0a	<b>22.1D</b>
<b>Mean</b>	<b>33.9B</b>	<b>33.4B</b>	<b>37.9A</b>	-	<b>9.21A</b>	<b>9.31A</b>	<b>9.37A</b>	-	<b>34.0A</b>	<b>31.1B</b>	<b>29.6B</b>	-
	<i>2<sup>nd</sup> Season</i>											
Packing in plastic nets (Control)	29.9f	30.5f	33.9cde	<b>31.4D</b>	9.73b	9.47b	10.9a	<b>10.0A</b>	36.7a	35.7a	32.5a	<b>35.0A</b>
Passive MA without additions	37.0b	37.0b	47.8a	<b>40.6A</b>	9.07c	8.90c	9.13c	<b>9.03B</b>	38.5a	36.8a	32.9a	<b>36.1A</b>
Passive MA with adding 25g wetted Ca(OH) <sub>2</sub> per sealed package.	33.4cde	31.9def	36.9b	<b>34.1C</b>	9.03c	8.90c	8.93c	<b>8.96B</b>	37.9a	34.9a	32.5a	<b>35.1A</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	33.1cde	31.6ef	34.4cd	<b>33.0C</b>	9.07c	8.93c	9.07c	<b>9.02B</b>	35.0a	28.8a	28.3a	<b>30.7B</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	37.0b	35.3bc	37.7b	<b>36.7B</b>	8.90c	8.93c	9.07c	<b>8.97B</b>	26.3a	25.4a	25.0a	<b>25.6C</b>
<b>Mean</b>	<b>34.1B</b>	<b>33.3B</b>	<b>38.1A</b>	-	<b>9.16B</b>	<b>9.03B</b>	<b>9.43A</b>	-	<b>34.9A</b>	<b>32.3B</b>	<b>30.2C</b>	-

Means within each column followed by the same letter (s) are not significantly different at 5% level.

Fruits of all MA treatments , except of control treatment, were packed in sealed carton boxes at rate of 190±10 g fruits / liter.

**Table 7: Effect of some modified atmosphere (MA) treatments and cold storage periods on acidity (%), technological index (TI) and TSS/ acid Ratio of Balady lime fruits after cold storage periods (2010 and 2011 seasons).**

Storage period (days) MA treatment	Acidity (%)				Technological index(TI)				TSS/Acid ratio			
	30	60	90	Mean	30	60	90	Mean	30	60	90	Mean
	<i>1<sup>st</sup> Season</i>											
Packing in plastic nets (Control)	7.67a	7.73a	7.80a	<b>7.73A</b>	3.04c	3.32b	4.06a	<b>3.47A</b>	1.19i	1.35e-h	1.36e-h	<b>1.30C</b>
Passive MA without additions	7.15b	6.63cd	5.63g	<b>6.47B</b>	2.36gh	2.46fg	2.71def	<b>2.51C</b>	1.29ghi	1.41def	1.68a	<b>1.46A</b>
Passive MA with adding 25g wetted Ca (OH) <sub>2</sub> per sealed package.	7.18b	5.90fg	5.93efg	<b>6.34B</b>	2.73de	2.57efg	3.35b	<b>2.88B</b>	1.27ghi	1.55bc	1.59ab	<b>1.47A</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	6.93bc	6.40de	5.80fg	<b>6.38B</b>	2.20hi	2.00i	2.69def	<b>2.30D</b>	1.33fgh	1.45cde	1.68a	<b>1.49A</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	6.97bc	6.27def	5.90fg	<b>6.38B</b>	2.51efg	2.89cd	3.39b	<b>2.93B</b>	1.26hi	1.38efg	1.50bcd	<b>1.39B</b>
<b>Mean</b>	<b>7.18A</b>	<b>6.59B</b>	<b>6.12C</b>	-	<b>2.57B</b>	<b>2.65B</b>	<b>3.24A</b>	-	<b>1.27C</b>	<b>1.42B</b>	<b>1.56A</b>	-
<i>2<sup>nd</sup> Season</i>												
Packing in plastic nets (Control)	7.67ab	7.83a	7.30bc	<b>7.60A</b>	3.32d	3.29d	4.44a	<b>3.68A</b>	1.17a	1.29a	1.48a	<b>1.31B</b>
Passive MA without additions	7.13c	6.37d	6.33d	<b>6.61B</b>	2.53h	2.57gh	2.93e	<b>2.68D</b>	1.30a	1.50a	1.62a	<b>1.47A</b>
Passive MA with adding 25g wetted Ca (OH) <sub>2</sub> per sealed package.	7.33bc	6.27d	6.00de	<b>6.53BC</b>	2.81ef	2.71f	3.28d	<b>2.93C</b>	1.25a	1.47a	1.59a	<b>1.44A</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	7.17c	6.23d	5.63e	<b>6.34C</b>	2.27i	1.99j	2.90e	<b>2.39E</b>	1.29a	1.45a	1.69a	<b>1.48A</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	6.97c	6.30d	5.97de	<b>6.41BC</b>	2.69fg	3.51c	3.83b	<b>3.34B</b>	1.30a	1.43a	1.59a	<b>1.44A</b>
<b>Mean</b>	<b>7.25A</b>	<b>6.60B</b>	<b>6.25C</b>	-	<b>2.72C</b>	<b>2.82B</b>	<b>3.48A</b>	-	<b>1.26C</b>	<b>1.43B</b>	<b>1.60A</b>	-

Means within each column followed by the same letter (s) are not significantly different at 5% level.

Fruits of MA treatments, except of control treatment, were packed in sealed carton boxes at rate of 190±10 g fruits / liter.

**Table 8: Effect of some modified atmosphere (MA) treatments and cold storage periods on acidity (%), technological index (TI) and TSS/ acid Ratio of Balady lime fruits after shelf life period (2010 and 2011 seasons).**

Storage period (days) MA treatment	Acidity (%)				Technological index(TI)				TSS/Acid ratio			
	30	60	90	Mean	30	60	90	Mean	30	60	90	Mean
	<i>1<sup>st</sup> Season</i>											
Packing in plastic nets (Control)	8.57a	7.37cd	7.57bc	<b>7.83A</b>	2.89gh	2.97fgh	3.99b	<b>3.28B</b>	1.19fg	1.37bcd	1.43bc	<b>1.33A</b>
Passive MA without additions	7.87b	7.07de	7.37cd	<b>7.43B</b>	3.41c	3.41c	4.23a	<b>3.68A</b>	1.17g	1.29def	1.24efg	<b>1.23B</b>
Passive MA with adding 25g wetted Ca (OH) <sub>2</sub> per sealed package.	7.60bc	6.80ef	5.83h	<b>6.74C</b>	3.32cd	3.18c-f	3.23cde	<b>3.25B</b>	1.20fg	1.33cde	1.56a	<b>1.36A</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	6.63efg	6.53fg	6.33fg	<b>6.50C</b>	2.87h	2.83h	3.13d-g	<b>2.94D</b>	1.34cd	1.40bc	1.40bc	<b>1.38A</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	6.73ef	6.50fg	6.23gh	<b>6.49C</b>	3.05e-h	3.12d-g	3.17c-f	<b>3.11C</b>	1.28def	1.40bc	1.45b	<b>1.38A</b>
<b>Mean</b>	<b>7.48A</b>	<b>6.85B</b>	<b>6.67B</b>	-	<b>3.11B</b>	<b>3.10B</b>	<b>3.55A</b>	-	<b>1.24C</b>	<b>1.36B</b>	<b>1.41A</b>	-
	<i>2<sup>nd</sup> Season</i>											
Packing in plastic nets (Control)	8.30a	7.37cd	7.57c	<b>7.74A</b>	2.92ef	2.89ef	3.71b	<b>3.17BC</b>	1.17hi	1.28efg	1.44abcc	<b>1.30B</b>
Passive MA without additions	8.00ab	7.03de	7.38cd	<b>7.47B</b>	3.35c	3.29cd	4.37a	<b>3.67A</b>	1.13i	1.27fg	1.24gh	<b>1.21C</b>
Passive MA with adding 25g wetted Ca (OH) <sub>2</sub> per sealed package.	7.67bc	7.03de	5.83h	<b>6.84C</b>	3.02def	2.84ef	3.30cd	<b>3.05CD</b>	1.18hi	1.27fg	1.53a	<b>1.33B</b>
Active MA 10% O <sub>2</sub> + 3% CO <sub>2</sub>	6.77ef	6.53fg	6.10gh	<b>6.47D</b>	3.00def	2.83f	3.12c-f	<b>2.98D</b>	1.34def	1.37cde	1.49a	<b>1.40A</b>
Active MA 10% O <sub>2</sub> + 6% CO <sub>2</sub>	6.80ef	7.47fg	6.20gh	<b>6.49D</b>	3.30cd	3.15cde	3.42c	<b>3.29B</b>	1.31d-g	1.38bcd	1.47ab	<b>1.39A</b>
<b>Mean</b>	<b>7.51A</b>	<b>6.89B</b>	<b>6.62C</b>	-	<b>3.11B</b>	<b>3.00B</b>	<b>3.58A</b>	-	<b>1.23C</b>	<b>1.31B</b>	<b>1.43A</b>	-

Means within each column followed by the same letter (s) are not significantly different at 5% level.

Fruits of MA treatments, except of control treatment, were packed in sealed carton boxes at rate of 190± 10 g fruits / liter.