

WC MICHIGAN APPLE MATURITY REPORT FOR 10/6/2010

Mira Danilovich

Since last Wednesday we had 3 days with overnight temperatures in the 30's and two nights when the temperature dropped into the 20's. Generally cooler weather has greatly improved the fruit coloring.

Two frost events accelerated starch/sugar conversion. Most of the varieties have been harvested. Except for the occasional Golden delicious, growers are now finishing Red delicious and getting into Idareds. This is the last sampling and reporting for the season.

Idared – A few samples were tested this week. Firmness is still excellent and above requirements for the long-term CA storage. The average values for the samples are very similar and in a range from 18.5 to 18.7lb. In ten days since the last testing there has been a loss from 0.87 to 1.34 lb. Three frost-events accelerated starch/sugar conversion. One of the samples is still testing immature with the average S.I. value of 2.8 and the rest are mature at 4.1 and in the optimum window for the long-term CA. Color is excellent and average values are from 82 to 97%. Higher percentage of the fruit is showing color bleed into the flesh and around the vascular bundles. Background color shows little change... green is still prevalent color but there is a bit more of a yellow hue in it. Brix are excellent with the averages in a range from 12.42 to 13.14%.

This information is available at: www.apples.msu.edu

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**2010 Michigan State University Fruit Team Apple Maturity Summary Report
West Central**

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Date	Location	Diameter		Firmness		Starch		Index	% Sugar		Color		% Brix		Storage		Comments
		Range	Mean	Range	Mean	Range	Mean		Range	Red	Back	Range	Mean	Pot.			
	M^cIntosh																
9/2	P.Marquette-L	2.73-3.2	3.05	13.5-17.75	15.7	2-4	3	imm.	50-90	73.5	5.00	10.6-12	11.6	Mid.Terr	100% inc.s.		
	Riverton-H	2.45-3.05	2.75	14.5-21	17.4	2-6	3.9	imm.	35-60	47.5	4.70	10.4-12.6	11.24	L.T.	40% inc.s.; 20% frost scars		
	Riverton-P	2.45-3.35	2.91	17-21	19.3	2-6	3.1	imm.	50-98	78	4.40	11-14.6	13	L.T.	50% frost mscars; 10% black rot;10% inc.s.		
9/3	Shelby-F	2.78-3.13	2.93	14-20	16.4	3-6	4.5	imm.	40-75	60	4.60	9.8-12	10.9	L.T.	Being harvested		
	RedMac																
9/3	Shelby-F	2.6-3.1	2.84	14-20.5	17.6	3-6	3.7	imm.	35-95	74	4.40	11.6-13.6	12.4	L.T.	10% inc.s.		
	GALA																
9/2	Roverton-H	2.53-3.05	2.71	19-23	21.13	1-5	2.5	imm.	50-80	62	2.90	12-14.6	12.6	L.T.	30% Frost scars; 30% inc. s.		
	P. Marquette-L	2.35-2.8	2.65	21-23	22.1	1-2	1.7	imm.	65-95	86	2.60	11.2-14	12.6		20% frost scars; 30% inc.s.; 10% n.s.		
	Honeycrisp																
9/2	P. Marquette-L	2.5-3.1	2.82	13.5-20	16.4	1-7	4.3	mat.	30-75	51	3.90	10.6-13.6	11.6				
9/18		2.7-3.2	3.03	12.5-20	16	4-8	6.3	mat.	40-95	59	3.50	10.4-14.2	12.3		30% b.p.;60% inc.s.; 10% n.s.; 10% frost scars		
9/2	Riverton-H	2.7-3.4	3.11	14.5-20	17.5	1-2	1.3	imm.	30-75	58	3.60	12.8-15	13.5		20% bitter rot;20% w.c.;20% black rot;40% frost scars		
9/20		2.87-3.5	3.3	13-20.5	15.6	6	6	mat.	50-90	72.5	3.00	14-16.8	14.7		40%bit.pi;20% bitter rot; 40% inc.s.		
	Cortland																
9/20	Riverton-H	2.8-3.53	3.22	14.25-20.5	17.25	1-2	1.4	imm.	80-100	93.2	4.30	12.8-15	13.6		50% inc.s.;20% n.s.; 10% color bleed;10% frost scars		
	Jonathan																
9/3	RubyJohn	2.2-2.68	2.5	17.5-23	21	1-2	1.8	imm.	95-100	98	4.50	11.6-13.6	12.5		40% inc.s.;20% color bleed; 10% n.s.		
	LuckyJohn																
9/13	Elbridge	2.76-3.06	2.91	16.5-22	18.4	2-6	4.1	mat.	90-100	99	4.50	13-15.8	14.7	L.T.	30% color bleed; 10% w.c.; 10% b.p.; 10% n.s.		
9/20	Elbridge-NCP	2.65-2.9	2.7	15.5-19.5	16.9	5-8	6.6	o.mat.	95-99	98	4.30	12.4-14	13.1	L.T.	10% bitter pit;10% inc.s.;10%color bleed/being harvested		
	Jonagold																
9/13	Elbridge-LT	2.6-2.23	3	15-21	18.23	1-3	2.4	imm.	0-50	17	4.90	11.6-14.6	12.5		40% frost scars; 100% inc.s.; 10% hail scars		
	Elbridge-HR	2.67-3.28	3	16-23	19.2	2-6	4.2	mat.	50-90	68	4.10	12.2-14.8	13.8	L.T.	20% inc.s.; 10% n.s.		
9/20	Elbridge-YR	2.78-3.3	3.1	15-21	18.74	3-7	5	mat.	95-100	98	4.90	12.6-15	13.8	L.T.	10% m.c.;30%color bleed;30%inc.s.		
9/18	P. Marquette-l	2.6-3.18	2.9	15-20.5	17.3	5-8	6.7	o.mat.	0-50	33	4.70	10.4-13	11.4	L.T.	40% inc.s.		
	Summit-K	2.7-3.28	3.1	16-23	20	2-4	3.1	imm.	65-98	84	4.10	12.8-14.6	13.7	L.T.	20% w.c.; 20% frost rings; 30% inc.s.; 30% n.s.		
	Empire																
9/13	Elbridge-F	2.62-3.06	2.9	17.25-23	19.8	2-3	2.5	imm.	35-98	73	4.10	11.4-13	12.4	L.T.	30% inc.s.; 10% hail scar/being harvested		

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Date	Location	Diameter		Firmness		Starch		Index	Red%		Color		% Brix		Storage		Comments
		Range	Mean	Range	Mean	Range	Mean		Range	Red	Back	Range	Mean	Potential			
	Golden delicious																
9/2	Riverton-H	2.35-3.02	2.62	17-23	20	1-2	1.1	imm.	0	0	4.00	10.4-12.8	11.9	L.T.	80% frost scars; 20% inc.s.		
9/20		2.5-2.95	2.73	15-20	17.83	3-4	3.1	mat.	0-45	16.5	3.90	12.2-14	13.2		40% frost scars; 10% inc.s.		
9/24		2.68-3.2	2.93	13.5-18	16.3	3-6	4.3	mat.	0	0	3.60	11-13	11.9		20% inc.s.;10% frost scars/being harvested		
9/20	Riverton-L	2.53-2.85	2.7	14.5-18.5	17.3	3-8	6.4	mat.	0	0	4.00	9-11.6	10.7		10% m.c.; 100 frost scars		
9/13	Elbridge-NCP	2.58	3.12	18-23.5	20.4	1-2	1.5	imm.	10-50	33	3.50	13.4-16.6	15.1	L.T.	10% inc.s.		
9/20		2.78-3.22	2.94	19.5-23.25	21.63	1-3	2	imm.	30-70	41	3.40	10.6-12	11.3	L.T.	10% w.c.;40% inc.s.;10% frost scars/being harvested		
	Red delicious																
	Early Red Chief																
9/3	Shelby	2.65-2.85	2.76	17.5-22	19.3	1-2	1.4	imm.		100		9.8-10.9	10.2	L.T.	10% m.c.; 10% inc.s.; 10% n.s.		
9/13		2.65-3.05	2.84	16-22.5	18.1	2-3	2.1	imm.	99-100	99.5	4.80	9.8-11.4	10.5	L.T.	20% m.c.; 30% inc.s./being harvested		
	Red Chief																
9/13	Elbridge-SCP	2.45-3	2.75	18-23	19.3	2-3	2.2	imm.	75-98	89	4.10	10.6-11.6	11		30% m.c.; 20% inc.s.		
9/20	Elbridge-SCP	2.65-3	2.81	16.5-21.5	18.24	2-3	2.4	imm.	80-100	89	5.00	10.2-11.6	11		30% m.c.;50%inc.s.;10% frost rings		
9/28	Elbridge-SCP	2.55-3.02	2.8	18-21.5	19.33	2-5	3.1	mat.	98-100	99.3	3.80	10.4-12.8	11.9		30% m.c.;50% inc.s.; 10% w.c.; 20% frost scars		
9/13	Elbridge-NCP	2.6-3	2.74	16-23	18.7	2	2	imm.	65-100	84	2.30	10-11.4	10.6		60% inc.s.		
9/20	Elbridge-NCP	2.55-3.05	2.75	17-22	19.2	2-3	2.4	imm.	90-100	97	4.25	11-11.4	11.12		40% m.c.;20% n.s.; 20% frost scars		
9/28	Elbridge-NCP	2.65-2.97	2.82	17.5-21.5	19.46	2-4	2.8	mat.	95-100	99	4.00	11.4-13.8	12.34		30% m.c.; 40% w.c.; 20% inc.s.; 10% bitter pit; 30% frost scars		
9/18	Summit-K	2.55-2.97	2.8	17-22.5	19.3	1-2	1.9	imm.	75-100	93	4.30	10-12	10.5	L.T.	10% m.c.; 40%inc.s.;20% frost scars; 10% n.c.		
9/24	Summit-K	2.7-3.15	2.88	15.5-20	18.21	2-4	2.3	imm.	95-100	98.4	4.00	10.6-12	11.14		60% m.c.;40% frost scars; 10% w.c.		
9/20	Riverton-H	2.7-2.95	2.83	16-20	17.4	1-3	2	imm.	100	100	0.00	10-12	11.3	M-L	20% m.c.; 10% iinc.s.; 10% n.s.;70% frost scars		
9/24	Riverton-H	2.65-3.07	2.83	16.25-19.5	17.8	2-3	2.7	mat.	99-100	99.8	4.00	10-11.8	11		40% m.c.; 30% frost scars; 20% inc.s.		
9/20	Riverton-P	2.5-2.92	2.7	17.5-21.5	19.7	2-3	2.4	imm.	95-100	99	4.00	10.4-13.4	11.5		70% bitter pit; 10% m.c.;20% inc.s.;10% n.c.;100% c.bleed		
9/28	Riverton-P	2.82-3.2	2.98	15.5-22	18.45	2-3	2.5	mat.	98-100	99.7	4.00	11.4-13	12.42		30% bitter pit;40% m.c.;50% inc.s.;20% color bleed		
	Starking delicious																
9/18	P.Marquette	2.6-2.9	2.7	16-22	19.3	2	2	imm.	95-100	99	3.80	10.4-12.6	11.6	L.T.	50% inc.s.; 10% m.c.; 10% w.c.10% frost scars		
9/24	P.Marquette	2.5-2.86	2.71	16.5-22	18.7	2-3	2.2	imm.	95-100	99.2	3.67	10.2-12.2	11.14		30% inc.s.; 10% m.c.; 40% frost scars; 10% hail scars		
	Low Rome																
9/18	Summit-P	2.62-3.4	2.9	21-23	22.8	2-5	3	mat.	100	100		11-12.6	11.9		100% color bleed		

