

Maturity Report September 10, 2013, Virginia Tech

Sample Collection Date	Cultivar	Location	Number of Orchards Tested (10)		Firmness (lbs)	Soluble Solids (°Brix)	Starch-iodine Index (1-8)**	Fruit Diameter (inches)	Fruit wt. (g)	Ethylene (ppm)	
			Fruit Each	Background Color (1-4)*							Red Color (%)
8/14/13	Gala (Crimson)	AHS JR AREC	1		23.5	23.0	11.1	1.2	2.8	151	1.07
8/19/13	Gala (Crimson)	AHS JR AREC	1		36.0	22.0	11.2	1.1	2.7	154	0.00
8/14/13	Gala (Buckeye)	AHS JR AREC	1		59.5	23.9	12.2	1.4	2.7	161	0.00
8/19/13	Gala (Buckeye)	AHS JR AREC	1		74.6	21.3	11.4	2.0	2.9	181	0.00
8/14/13	Gala (Royal)	AHS JR AREC	1		12.4	20.1	10.8	1.6	2.8	171	0.00
8/19/13	Gala (Royal)	AHS JR AREC	1		28.8	18.9	11.5	2.9	2.9	174	1.51
8/26/13	Gala	Various	4		91.1	18.0	12.4	5.4	2.9	185	1.71
8/14/13	Golden Supreme	AHS JR AREC	1	2.8		19.9	10.9	1.9	3.1	210	0.55
8/17/13	Golden Supreme	AHS JR AREC	1	2.3		17.7	10.7	2.2	3.0	218	1.38
8/19/13	Golden Supreme	AHS JR AREC	1	2.6		17.2	10.7	2.1	3.2	232	0.28
8/26/13	Golden Supreme	AHS JR AREC	1	2.6			12.0	2.5	2.9	178	0.69
8/14/13	Ginger Gold	AHS JR AREC	1	3.5		17.9	12.5	1.5	3.1	213	0.00
8/19/13	Ginger Gold	AHS JR AREC	1	3.8		18.1	12.5	1.4	3.1	195	0.00
8/26/13	Ginger Gold	AHS JR AREC	2	3.9		16.0	12.8	3.5	3.2	210	0.00
8/19/13	Honeycrisp	AHS JR AREC	1		10.6	15.8	10.6	1.3	3.0	197	0.76
8/26/13	Honeycrisp	Varoius	2		54.3	15.1	12.3	3.2	3.2	222	2.22
8/19/13	Red Delicious	AHS JR AREC	1		54.0	19.7	9.5	1.3	2.8	171	0.00
8/21/13	Red Delicious	AHS JR AREC	1		65.0	10.8	9.9	1.2	2.8	169	0.00
8/26/13	Red Delicious	Various	16		91.3	18.4	9.8	2.0	2.9	181	0.25
9/3/13	Red Delicious	Various	4		94.6	16.4	9.8	1.4	3.0	205	1.15
9/10/13	Red Delicious	AHS JR AREC	2		91.8	17.3	10.0	2.6	3.0	221	7.68
8/19/13	Empire	AHS JR AREC	1		56.5	19.3	10.4	1.7	2.9	168	0.00
8/26/13	Empire	AHS JR AREC	4		63.0	18.6	10.6	1.5	2.7	144	0.04
9/3/13	Empire	AHS JR AREC	1		64.0	16.2	10.1	2.4	2.7	134	0.59
8/26/13	Cameo	AHS JR AREC	1		33.5	18.1	10.2	1.7	2.9	186	0.53
8/26/13	Fuji (Early Strains)	Various	2		80.3	16.3	13.6	4.3	3.2	223	1.51
9/10/13	Fuji (Early Strain, Daybreak)	AHS JR AREC	1		84.2	15.3	12.8	6.3	3.2	210	1.13
9/10/13	Fuji (Late Strain, BC2)	AHS JR AREC	1		30.0	18.4	10.8	2.4	2.9	183	0.20
8/26/13	Golden Delicious	Various	23	2.3		18.3	11.9	2.2	2.9	176	0.17
9/3/13	Golden Delicious	Various	3	2.4		16.1	11.8	1.9	3.0	179	0.56
9/10/13	Golden Delicious	AHS JR AREC	2	2.3		16.9	13.1	2.7	3.1	207	0.39
8/26/13	Idared	Various	6		41.1	17.5	10.1	1.2	3.0	173	0.12
8/26/13	Jonagold	AHS JR AREC	1		35.5	18.7	11.8	2.8	3.0	186	0.00
8/26/13	Rome	Various	1		21.2	24.6	9.2	2.0	3.0	190	0.00
9/3/13	Rome	Various	2		52.6	21.4	10.0	2.2	3.0	187	0.64
8/26/13	York	AHS JR AREC	1		53.5	24.4	9.4	1.0	3.0	166	1.20

* 1 = green, 2 = light green, 3 = yellowish green, 4 = yellow.

** 1 = 100% starch, 5 = 60% starch, 8 = 0% starch.