All About New York State's Apples

Where and What Kind of Apples are Produced in New York?

The majority of apples grown in New York are grown on 51,097 bearing acres in six major production districts. Those districts include Champlain Valley, Eastern Hudson Valley, Western Hudson Valley, Central, Lake Country and the Niagara Frontier. More specifically the major apple producing counties are; Wayne, Ulster, Orleans, Niagara, Clinton, Columbia, Monroe, Orange, Onondaga and Dutchess. These regions cover the 694 commercial apple growers in New York State.

New York's Top Producing Apple Counties



The top ten varieties of apples according to production volume are:

McIntosh

1.

9.

- 2. Empire
- 3.
- Red Delicious
- Cortland 4.
- Golden Delicious 5.
- 6. Rome

Paula Red

7.	Idared	
8.	Crispin	

10.	Gala, Jonagold, Jonamac	

There are other, less popular varieties Orange grown in New York State, some of Orleans those include; Acey Mac, Ginger Gold, Oswego Jerseymac, Macoun, Gala, Fuji, Saratoga Braburn and Fortune. Ulster Wayne



Total Production of Apples by Variety
New Vork State - 1000-2008

Number of Apple Farms, Trees, and Acres

2001

695 7,544,740 44,563

458,654

268,812

191,446

743,269

163,671

159,367

78,411

1,100,076

112,182

94,437

968,581

159 2,693,389 17,156

512,445 4,147

(thousand dollars)

Farms

13

34

27

46

14

10

16

61

14

12

56

233

County

Clinton

Columbia

Monroe

Niagara

Ontario

Other

Onondaga

New York State

New York State by County — 2001 and 2006

Trees Acres

3,436

1,349

1,103

4,250

582

354

695

511

506

5,669

4,805

New YORK ST	ate —	• 1999	-2000)						
Variety	1999	2000	2001	2002	2003(r)	2004	2005(r)	2006(r)	2007	2008
	(million pounds)									
All Varieties	1,260	995	1,000	680	1,070	1,280	1,045	1,260	1,310	1,250
Cortland	80	65	70	45	75	85	80	105	120	105
Crispin (Mutsu)	65	50	55	35	55	55	60	65	55	45
Delicious	115	80	90	60	95	120	90	135	140	120
Empire	150	135	150	100	155	180	155	190	200	170
Golden Delicious	60	55	70	50	75	100	125	105	115	125
Idared	115	85	65	45	70	65	80	95	60	50
McIntosh	240	210	180	120	185	215	195	215	245	265
Rome	135	90	70	50	80	95	100	90	105	100
Other	300	225	250	175	280	365	160	260	270	270

Weather and its Role in Apple Production

Apples and the Cold

Apple trees do best in a climate that splits half the year between warm and cold months. Many apple varieties require 600- 1000 hours below 45 degrees Fahrenheit in the winter months in order to produce good fruit vields. These hours are referred to as chill hours. Typically hardiness zones of at least five meet those chill hour requirements. Hardiness zones 9-10 are considered "low chill" zones only receiving 100-600 chilling hours.

Apples and the Heat

On the other end of the year, when summer months are here, most varieties are located in regions where there are approximately 150 frost free days. These regions are typically a hardiness zone of 5. During their growing periods (the summer months) days above 90 degrees Fahrenheit cause heat damage to apple trees. High heat stops the photosynthesis process and causes what is known as heat stress stunting the growth of a tree. When the spring arrives, early heat waves followed by an unseasonably late spring frost is damaging to an apple crop. The early heat

causes premature budding and the late frost will kill or severely damage the apple buds. This will reduce or ruin the apple crop for the season.

Apples and Water

Apple trees are not drought tolerant plants. They require regular watering every 7-10 days of 114 cm of water from April through August. This is considered the critical period. While apple trees are not drought tolerant, excess water causes damage as well. Saturated roots will lead to increased pest damage, damage to the foliage as well as root rot.

Apples in New York, Fast Facts:

New York is the second largest apple producing state in the United States

New York averages 29.5 million bushels of production annually

In New York State the apple industry provides employment for thousands of workers. Broken down there are:

694 family farms

2006

697 9,464,203 42,360

771,770

441,314

171,772

570,603

174,751

224,205

224,273

1,100,441

129,317

75,893

141 4,297,498 17,857

275 418,004 3,127

864,362 4,915

Trees Acres

3,151

2,018

934

592

479

1,030

4,415

430

427

2,985

Farms

10

30

27

50

12

14

13

50

9

15

51

10,000 direct agricultural jobs

7,500 indirect jobs involved with handling, distribution, marketing and shipping of apple exports.

Conclusion: apples are important to New York!

Apple Variety Information:

Empire Apple

Hardiness zone range: 4-7

Bloom date: Mid April Ripening date: September

Crispin (Mutsu) Apple

Hardiness zone range: 5-9

Ripening date: Early October

Approximate growing season length: 138 days

Bloom date: Mid April

well as very refreshing.

Idared Apple

ber

Hardiness zone range: 5-8

Bloom date: Mid April

Approximate growing season length: 138 days.

Empire apples are very crisp, juicy apple with a creamy white flesh. They are a blend of sweet and tart.

Crispin apples are very sweet apples. They are super crisp, very juicy as

The idared apple is a sweetly tart and juicy apple. It has a firm, pale, yellow

Red Delicious Apple

Hardiness zone range: 4-7

Bloom date: Mid April

Ripening date: Mid September

Approximate growing season length: 153 days.

Red Delicious apples are sweet and juicy fruit with a crisp yellow flesh.

Fuiji Apple

Hardiness zone range: 6-9

- Fuiji apples have a high heat tolerance
- Bloom date: Mid May
- Ripening fate: October
- Approximate growing season length: 137 days

The fuiji apple has a crisp, cream colored flesh. It is very sweet and very juicy.

Granny Smith Apple

Hardiness zone range: 6-9

Granny Smith apples are a heat resistant variety

Bloom date: Late May

Ripening date: Middle –Late October

Approximate growing season length: 142 days

Granny smith apples are extremely tart. They are crisp and juicy.

Rome Apple

Hardiness zone range: 4-8

Bloom date: Mid May

Ripening date: Mid October

Approximate growing season length: 153 days

Approximate growing season length: 213 days

greenish flesh that is sometimes tinted pink.

This mildly tart apple has a firm greenish, white flesh. It is prefect for making sauce and pies.

Cortland Apple

Hardiness zone range: 4-7

Bloom date: Mid April

Ripening date: Mid September

Approximate growing season length: 153 days

With their tender snow white flesh the Cortland apple is a juicy variety. It is a sweet apple with a hint of tartness.

Sources for this fact sheet:

"Apple Varieties." Apple Country New York State. New York Apple Association, 2010. Web. 14 Jul 2011. < http:// www.nyapplecountry.com/varieties.htm>.

"Apple Varieties." Orange Pippin. Orange Pippin Ltd, 2011. Web. 14 Jul 2011. <http://www.orangepippin.com/apples>.

"Ag Facts." New York State Department of Agriculture and Markets. New York State, 2011. Web. 14 Jul 2011. < http:// www.agmkt.state.nv.us/agfacts.html>.

New York State Department of Agriculture and Markets, Agricultural

McIntosh Apple

- Hardiness Zone Range: 4-7
- Bloom Date: Mid April
- Ripening Date: Mid September
- Approximate Growing Season Length: 153 days

McIntosh apples are excellent for eating, they are sweet with a tart tang. Their flesh is tender and white.

Gala Apple

- Hardiness Zone Range: 4-10
- Gala apples are a heat resistant variety
- Bloom Date: Mid to Late April
- Ripening Date: Late August
- Approximate Growing Season Length: 138 days

Gala apples have a mild sweet flavor. Their flesh is crisp and yellow colored. As well the Gala is a very juicy apple.

Nutrition Facts

Serving Size

1 medium apple (154g / 5.5 oz.)

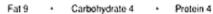
Amount per Ser	ring
Calories 80	Calories from Fat 0
	% Daily Value*
Total Fat 0g	0%
Saturated Fa	at Og 0%
Cholesterol	0mg 0 %
Sodium Omg	0%
Potassium 1	70mg 5%
Total Carbol	ydrate 22g 7%
Dietary Fibe	r 5g 20%
Sugars 16g	
Protein 0g	
Vitamin A 2%	 Vitamin C 8%

Calcium 0%	•	Iron 2%

*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs:

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	Calories:	2,000	2.500	
Total Fat	Less than	65g	80g	
Sat Fat	Less than	20g	259	
Cholesterol	Less than	300mg	300mg	
Sodium	Less than	2,400mg	2.400mg	
Potassium		3,500mg	3,500mg	
Total Carbohydrate		300g	375g	
Dietary fiber		26g	30g	
Calaries net a	warm:			















Ripening date: Mid September

Approximate growing season length: 153 days

Golden Delicious apples have a mild sweet flavor. Their flesh is yellow, crisp and provide the apple with its juicy quality.









