Onion

(Allium cepa)

Recommended Varieties

Early Bulb

Grano (red or white) Granex (red or white) California Early Red

Green Bunching (scallions)

(best quality obtained by growing seeds or transplants) Evergreen White Southport White White Sweet Spanish White Lisbon Tokyo Long White

Late Bulb

Fiesta (yellow Sweet Spanish type) Yellow Sweet Spanish White Sweet Spanish Southport White Globe Southport Red Globe Stockton Yellow Globe

Onions are often grouped according to taste. The two main types of onions are strong flavored (American) and mild or sweet (sometimes called European). Each has three distinct colors -- yellow, white, and red. Generally, the American onion produces bulbs of smaller size, denser texture, stronger flavor, and better keeping quality than European types. Globe varieties tend to keep longer in storage.

Onion varieties also have different requirements regarding the number of daylight hours required to make a bulb. If the seed catalog lists the onion as long-day, it sets bulbs when it receives 15 to 16 hours of daylight. Short-day varieties set bulbs with about 12 hours of daylight. The variety and the planting date are extremely important in the production of a good bulb crop. Before buying and planting, obtain advice from an experienced gardener or your county Cooperative Extension farm advisor. If you live south of Bakersfield, use early varieties seeded or transplanted in October for June harvest. Sets and late varieties are not recommended. If you live north of Bakersfield, seed or transplant early varieties from November through January for late spring or summer harvest Seed or transplant late varieties or sets from January through March for late summer or fall harvest.

You can grow onions from seed, sets, or from transplants. Seed requires a longer growing period than onions grown by other methods and the plants have to be thinned. However, it is the cheapest method and is the one most commonly used. Sets are small, immature onion bulbs that are planted the same way as seed. Sets are a good method for producing a quick crop of green onions. They are not recommended for the production of mature, dry bulbs because varieties used to produce sets are frequently not well adapted to California and/or they frequently result in bolting (going to seed) rather than bulbing.

Transplants are also an easy method for producing an early crop, but you will probably have to raise your own plants as they are rarely available from nurseries. Dry onions are ready to harvest when the tops fall over (approximately 6 months after planting). Pull onions and let them dry for a few days on the top of the ground. Cover the bulbs with the tops to prevent sunburn. When the tops and 'necks" are dry, remove the tops and store the bulbs in a cool, dry place. Or you can leave the tops on, braid them, and hang in a cool, dry place. If onions are allowed to form seed stalks, the center of the bulb becomes woody, undesirable to eat and not suitable for long storage.

Plant green onions 4 to 6 times thicker than you would dry bulb onions. Harvest green onions when they are 1/4 to 1/2 inch in diameter.

Onions vary in their pungency or 'hotness." In general, the softer varieties, such as Grano and Sweet Spanish, are milder than the harder varieties, such as Southport White Globe. The mild onions are preferred for fresh consumption, but the stronger flavored ones are better for cooking.

Nutritional Value

Serving size:	1/2 cup, chopped, boiled	Primary Nutrie	<u>ents</u>	<u>%RDA(m)</u>	<u>%RDA(f)</u>
Calories	47	Vitamin C	6 mg	10	10
Fat	0.2 g	Folic acid	15 mcg	7.5	8
Calories from fat	4%				
Cholesterol	0				
Sodium	2 mg				
Protein	1.4 g				
Carbohydrate	10.7 g				

What the Problem	Probable Cause	Comments	
Looks Like			
Tiny bulbs.	Wrong variety	Plant right variety at	
Roots look while and normal.	Wrong time to plant	proper time. Garlic and	
	Weed competition	onions do not compete well	
		with weeds.	
Seedstalks develop	Cold weather after plants	Plant right variety at proper	
	are 6-1 0 weeks old	time. Do not "overwinter".	
Roots rotted and pink in	Pink root	Grow a pink root-resistant	
color. Yields drastically	Caused by soil fungus	variety Rotate crops to	
reduced.	-	reduce disease severity.	
Tunnels and cavities in bulb	Onion maggot	Preventive controls only.	
and underground stem. Plant	(Adults are small flies.	Nothing practical can be	
may die or become wilted	Larvae are off -white,	done once pest occurs on	
and yellow. Tips may	legless.	growing crop. Destroy cull	
turn brown.		onions after harvest.	
Leaves turn silvery	Onion thrips	Most common during dry,	
Leaves can also have		warm weather. Use	
white streaks, blotches		insecticidal soap.	
Yellow or white areas on leaves.	Downy mildew	Destroy old plant debris.	
Leaves, stalks bend, wilt, and die.	(Fungus attacks plants	Keep soil well-drained.	
Soft, white to purple spore (mold)	only in onion family -	Allow plants to dry out	
growth during wet, humid weather	the <i>Allium</i> family)	between irrigations.	
		Keep air circulating.	
		Use resistant varieties.	
Plants collapse.	White rot	Destroy diseased plants.	
Bulbs have soft, watery rot. Leaves	Caused by the fungus	To prevent spread in soil,	
and/or bulbs have white, fuzzy	Sclerotium spp. in	do not compost.	
growth speckled with black bodies.	northern California	Rotate crops. Fungus	
Coodlings are rate thistoped		survives in soil for years.	
Seedlings are pale, thickened,	Stem and bulb nematode	Use certified seed. Do not	
deformed. Older plants are stunted,		plant onions in areas where	
limp. Leaftips are dying.		onions, garlic, leeks, or	
Bulbs swollen at base.		chives grew in previous years.	
		Parsley and celery are also	
		hosts. Remove and destroy	
		infested culls.	

Problem Diagnosis for Onion