CHAPTER 16

UNDERSTANDING VEGETABLES



COOKING VEGGIES CHANGES THE FOLLOWING:

- TEXTURE
- FLAVOR
- COLOR
- NUTRIENTS



Controlling Texture Changes

(Changing texture is one of the main purposes of cooking veg.)

FIBER

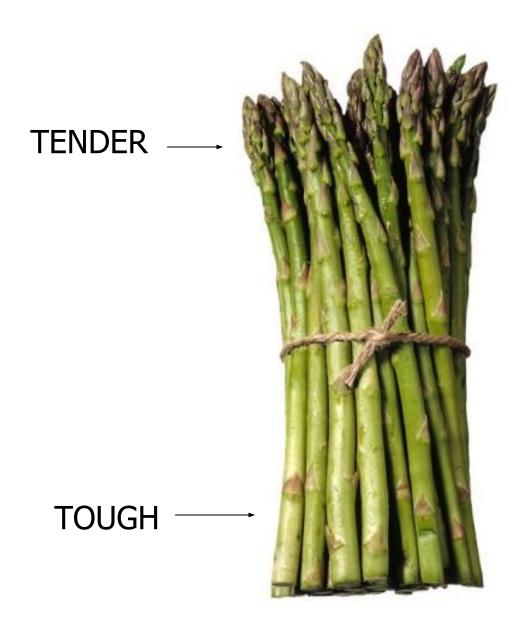
The amount of fiber varies in:

- 1. Different veggies (spinach vs. carrots)
- Different examples of same veggies old versus young
- In same veggie asparagus tip versus stem









FIBER IS MADE FIRMER BY:

- ACIDS lemon jc., vinegar, tomato
- SUGARS strengthen cell structure (fruit cookery)

FIBER IS SOFTENED BY:

- HEAT
- ALKALIS bad for green veggies!

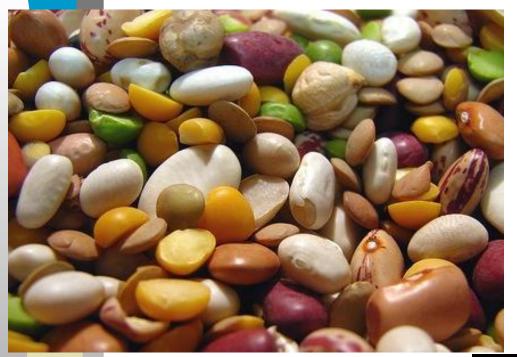






STARCH

- Dry legumes, rice, pasta need water so starch granules can absorb, swell, soften.
- Moist starchy veggies: sweet potatoes, potatoes; need to be cooked until the starch molecules soften.







GUIDELINES FOR COOKING:

- Don't overcook!
- Cook close to service time
 - Shock to cool quickly and reheat
- Make sure pieces are same size!
 - Take care of those veggies that
 - are tough and tender at the same
 - time
 - Don't mix batches of cooked veggies together



CONTROLLING FLAVOR CHANGES

Cook for short time – quickly Boil water first, than add veggies Minimize leaching by using the least amount of water as possible Steam where appropriate vs.

boiling

COOKING, CONT'D

Flavor Changes:

- Cooking changes the flavor which is desirable as long as you don't overcook
- Overcooking cabbage? (Flavor?)Brussell sprouts?

Sweetness:

- Young, fresh veggies are sweet by nature
- Store for a short time
- Add a bit of sugar to older veggies to soften





CONTROLLING NUTRIENT LOSSES

- Hi temps
- Long cooking times
- Leaching
- Alkalis (baking soda, hard water)
- Plant enzymes destroyed by high heat
- Oxygen

■ 2o – A LITTLE OR A LOT?

Use just enough to cover

Using a little increases cooking time: water temp drops; recovery
The best method

preserves nutrients while maintaining color, flavor and texture



QUALITY IN COOKED VEGGIES

- Color
- Appearance on plate
- Texture
- Flavor
- Seasonings
- Sauces
- Attractive combinations



HANDLING VEGETABLES

WASHING

- Wash thoroughly
- Cold water; veg. sink
- Scrub root veggies
- Leafy veggies: several times
- Wash, drain, cover lightly to crisp

SOAKING

- Not so much today
- Salt draws out bugs!
- Fluff up limp veggies with a dose of ice water!
- Dried beans soak to soften before cooking

PEELING AND CUTTING

- Not too much peel!
- Uniform pieces
- Cut close to service; retain moisture
- Veggies that brown when cut and exposed to air: potatoes, eggplant, sweet potatoes
- Store in water; water with acid

PROCESSED VEGGIES







FROZEN VEGGIES

- Temperature 0 degrees
- arge ice crystals no
 - good
 - Signs of leakage no
 - ood
 - Freezer burn no good
- Cook from frozen state
- Shorter cooking time; they are par cooked



CANNED VEGGIES

No puffed or swollen cans

Drained weight is important

Check the grade: US
Grade A is best; B or
C???? What would we
use these for?



COOKING CANNED VEGGIES:

- Wipe can top
- Drain ½ the liquid
- Heat but don't boil; reheating
- Heat close to service
- Season? Butter?
- Dress them up?

