Chapter 12

Understanding Poultry

Chapter Objectives

- 1.Explain the differences between light meat and dark meat, and describe how these differences affect cooking.
- 2.Describe four techniques that help keep chicken breast moist while roasting.
- 3. Define the following terms used to classify chicken: kind, class, and style.
- 4. Store poultry items.
- 6.Determine doneness in cooked chicken.
- 7. Truss poultry for cooking.
- 8. Cut up chicken into parts.

Composition and Structure

OThe muscle tissue contains:

- Water (Approximately 75% water)
- Protein (20%)
- Fat (up to 5%)
- Small amounts of elements and carbohydrates

Remember that muscles consist of muscle fibers held together by connective tissue.

Maturity and Tenderness

- Tenderness of a piece of meat or poultry is related to connective-tissue and that connective-tissue increases with
 - Use or exercise of the muscle
 - Maturity and age of the animal or bird
- O Young, tender birds are cooked by dry heat methods, such as broiling, frying, roasting and moist methods. Older tough birds are primarily cooked by moist heat.

Free-Range and Organic Chickens

- Allowed to move around freely and eat outdoors in a more natural environment
- ONo legal definition of "Free-Range" and "Organic"
- Organic = raised without chemical growth enhancers or antibiotics – but no guarantee

"Light Meat" and "Dark Meat"

<u>Light Meat - Breast</u> <u>and Wings</u>

Less fat

Less connective tissue Cooks faster Dark Meat – Drumsticks and Thighs More Fat

More connective Tissue

Longer cooking time

Grading of Poultry and Inspection

- OAll poultry consumed in the U.S. is subject to USDA inspection
 - A guarantee of wholesomeness
 - Indicated by a round stamp
 - Required by law
- OThis ensures that products are produced under strict sanitary guidelines and are wholesome and fit for human consumption

Grading

- OBased on Quality
- OIndicated by a shield stamp and Letter Grade
- ONOT Required by U.S. Law
- OU.S. Grades
 - A, B, C (A = best)

Grading

OU.S. Grades based on

- Shape of carcass
- Amount of Flesh
- Pinfeathers
- Skin Tears, Cuts, Broken Bones
- Blemishes and Bruises

 Most poultry used in food service is Grade A

Classifications and Market Forms

- Kind Species, such as chicken, turkey, or duck
- OClass The subdivision of kind, depending on age and sex
- OStyle Amount of cleaning and processing: Live, dressed, whole, in parts, and ready-to-cook
- OState of Refrigeration: Chilled or frozen

Chicken Classes & Ages

- ORock Cornish Game Hen-5-6 weeks
- OBroiler/Fryer-6-12 weeks
- ORoaster-3-5 months
- Capon-under 8 months
- OHen/Fowl (female)-over 10 months
- OCock/rooster (male)-over 10 months

Handling and Storing

- O Poultry can be purchased in many forms:
 - Fresh
 - Frozen
 - Cut-up
 - Portioned controlled (PC)
 - Individually quick frozen (IQF)
- O Extremely perishable
- O Do not cross-contaminate
- Often carries salmonella bacteria

Handling and Storing (cont'd)

- OAll poultry is a potentially hazardous food
- OFresh chickens and small birds can be stored on ice or at 32 to 34° F for no more than four days
- OFrozen poultry should be held at 0° F and can be held for six months
- OFrozen items should be thawed under refrigeration
- ODo not refreeze poultry

Doneness

- ODomestic poultry is almost always cooked well done (except for squab and sautéed duck breast).
- OThere is a difference between well done and overcooked.

A Major Problem with Roasting

- A major problem with roasting is cooking the legs to doneness without overcooking the breasts. Consider:
- ORoasting birds breast down for part of the time
- OBasting with fat only
- OBarding
- ORoasting separately

Dry-Heat Cooking Methods

- OBroiling
- OGrilling
- ORoasting
- OThe four methods used to determine doneness of poultry
 - Touch
 - Temperature
 - Looseness of joints
 - Color of the juices

Chicken Facts

- The most popular and widely eaten poultry in the world
- OIt contains white and dark meat
- OCan be cooked by almost any cooking method
- OIt is readily available fresh and frozen