

# Today's Pork







# Minnesota School Nutrition Association Annual Conference July 30, 2012

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Sponsored by Minnesota's pork farmers and the Pork Checkoff





### **Today's Pork Agenda**

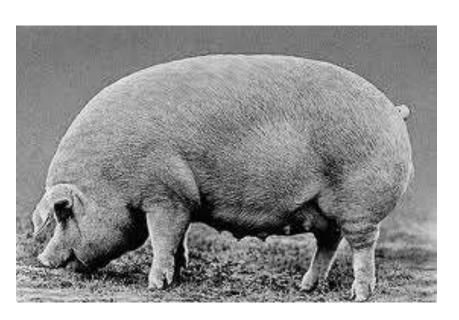
### A Wise School Menu Choice: Nutritious, Affordable, Easy-to-Prepare, Delicious

- Positive Nutritional Profile
- 2010 Dietary Guidelines
- School Nutrition Standards
- Pork Cuts and NEW Cookery Information
- Taste for Yourself: Amazing Appetite Appeal BBQ Pork and Apple Pita
- Questions

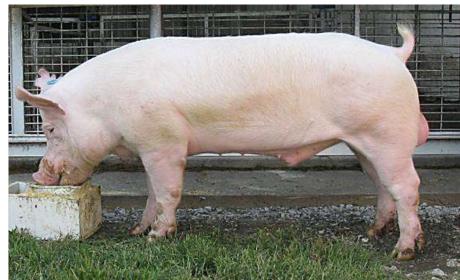




#### **Old-fashioned Lard Pig**



#### **Today's Trim Pig**







# Today's Pork: Positive Nutritional Profile Published Nutrition Research Findings











#### **Nutrition Research**

Be inspired

satritional contributions of fresh and fresh, lean pork to the diets of American adults, Using the insut surrent fattorial Health and Nutrition Exemination Survey (NHANES) data

somitably, researchers conclude that fresh purk products, and heph, lean park products in particular, are substantial sources of key outrients when these products are consumed by adults

STUDY RESULTS

One Litched States.

#### 3 Key Findings:

- Americans are consuming fresh, lean pork at levels well within the total amount recommended by the Dietary Guidelines for Americans 2010.
- daily diet can help fulfill nutrient needs, while also helping to limit the amount of calories eaten.
- 3) Calories coming from dietary fat are no compared to those not eating pork.

Nutrient Contributions from Park Americans are companing treck and thesh, least pack at levels well within the total amount that is recommended in the protein fouls Incorporating fresh, lean pork cuts into the group by current dietary guidance. On the day of interest maded, tilt askets also 5.3 purces of lotal South pick, within the S.S parcel equipments a day of total process from recommended for small inniuming 1800 catories per may becoperating bruh, lean park cuts links the stally sliet can look fulfill number needs, while also betalog to finit the assessed of calmire nation. Based on a day of consumption tresh, lean port accounts for 23 percent of total promon missie, 25 percent or every of total intake **Total Dietary Fat Contributions from Pork** of salesiscen and tharmen, and 20 percent or reure of total intakes of phosphorus, ponacours, onc. and B veterory, including resoftware, maces, wherein Bill and ellamon NLS. Catories coming from allebary fell are on Enginer or lower arroing those nating pork at compared to from who are not eating pork Transfore, Americans van Improve slictary yarlen and increase intake of important natrieves, while Recepting tomat flat and calculate in clearly, by adding these products to their daily dies. higher or lower among those eating pork CONNECT WITH THE NATIONAL PORK BOARD Tax more information and recipes to every today's wan and flore-ful ports, stat fundamentalism, floridatellisms, any or Paradiana com Portificioning: Also, Se sure to John #1468bookPark on Territor For more information, please contact Addis Shart-Brown, NS; 1D, (518) 523-3632, electric Sport, res or Victor Housing (1927) 988-2979, physical all methods by producing com-Murphy, M., Spungen, J., Bi, X., & Barraj, L. Nutrition Research Volume 31, Issue 10 (2011): 776-783.



**KEY FINDINGS** 



Pork Cut	1991 Calories	2010 Calories	1991 Fat (g)	2010 Fat (g)	1991 Saturated Fat (g)	2010 Saturated Fat (g)	1991 Cholesterol (mg)	2010 Cholesterol (mg)
Pork tenderloin	139	120	4.09	2.98	1.41	1.02	67	62
Pork boneless top loin chop	173	147	6.60	5.17	2.72	1.77	68	61
Ground pork, 96% lean	N/A	157	N/A	5.27	N/A	1.77	N/A	72
Pork top loin roast (boneless)	165	147	6.13	5.34	3.08	1.64	66	68
Pork center loin chop	172	153	6.86	6.20	2.51	1.83	70	72
Pork center rib chop	186	158	8.28	7.10	2.94	2.17	69	56
Pork sirloin roast (bone-in)	184	173	8.75	8.02	3.08	2.44	73	76



#### LOIN = LEAN

LEAN: Less than 10 grams total fat, 4.5 grams saturated fat and 95 milligrams cholesterol per 3-ounce cooked serving

Pork Boneless Top Loin Chop — 96% Lean Ground Pork

Pork Boneless Top Loin Roast — Pork Bone-In Center Loin Chop

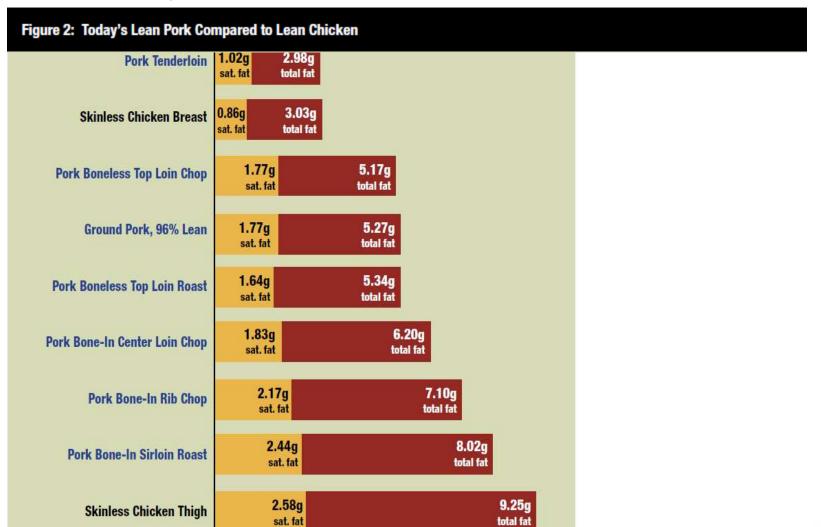
Pork Bone-In Rib Chop — Pork Bone-In Sirloin Roast

EXTRA LEAN: Less than 5 grams total fat, 2 grams saturated fat and 95 milligrams per 3-ounce cooked serving

Pork Tenderloin

**por** checkoft





Based on 3-ounce cooked servings (roasted or broiled), visible fat trimmed after cooking. Source: 2010 National Nutrient Database for Standard Reference, Release 23.





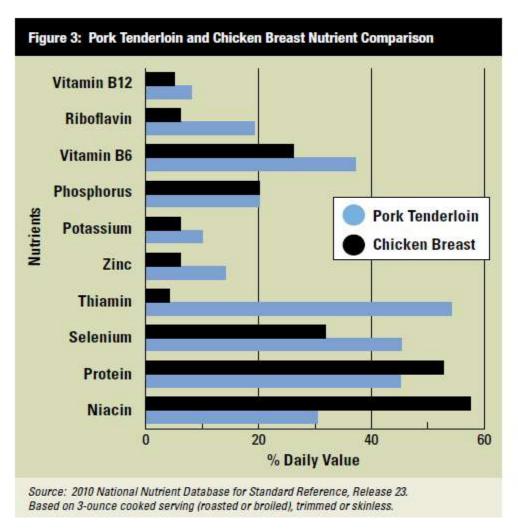


Figure 4:	Pork's	Nutrient	Packa	age
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Compared to Daily Values (DV) for nutrients, a 3-ounce serving of lean, roasted pork tenderloin contributes:

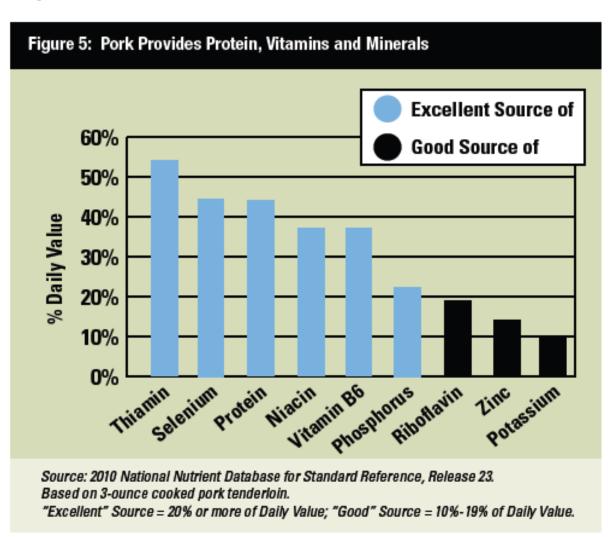
Nutrient	% Daily Value*		
Thiamin	54% DV		
Selenium	46% DV		
Protein	44% DV		
Niacin	37% DV		
Vitamin B6	37% DV		
Phosphorus	23% DV		
Riboflavin	19% DV		
Zinc	14% DV		
Potassium	10% DV		

Source: 2010 National Nutrient Database for Standard Reference, Release 23.

\*Daily Values based on a caloric intake of 2,000 kcal per day for adults and children four or more years of age.











## Today's Pork: Positive Nutritional Profile PORK is an Excellent Source of PROTEIN

ANIMAL PROTEIN is high quality protein, containing *essential* Amino Acids not available from plant sources.

#### Protein consumption helps the body:

- Source of energy
- Provides structure muscles, organ:
- Regulates hormones, enzymes, antibodies
- Aids satiety



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## Today's Pork: Positive Nutritional Profile PORK is an Excellent Source of PROTEIN

## The amount of protein required by the body each day is individualized

- Depends on age, body size, gender, physiological state and energy output
- For healthy individuals:
  - Recommended Dietary Allowance for protein is
     0.8 g/kg/day
  - Reasonable intake 1 to 1.2 g/kg/day
  - 20 to 30% of caloric intake
  - 5 to 7 ounces of meat/day





## Today's Pork: Positive Nutritional Profile PORK is an Excellent Source of PROTEIN

**Recommended serving size**: A 3-ounce serving of cooked meat contains about 21 grams of protein

What does a 3 ounce serving look like?

A deck of cards







## Today's Pork: Positive Nutritional Profile Essential Vitamins and Minerals

#### PORK is an Excellent Source of:

**Thiamin** - needed for energy metabolism and the proper function of the nervous system

**Selenium** - needed for repair of DNA, a healthy immune system and the prevention of many cancers

**Niacin** - needed for energy metabolism, proper digestion and a healthy nervous system

Vitamin B6 - needed for cell growth

**Phosphorus** - needed for healthy bones and teeth, energy metabolism and acid/base balance in the body





## Today's Pork: Positive Nutritional Profile Essential Vitamins and Minerals

#### PORK is a Good Source of:

**Riboflavin** - needed for energy metabolism, building tissue; helps maintain good vision

**Zinc** - needed for cell reproduction, tissue growth and repair

**Potassium** - essential for maintaining proper fluid balance, nerve impulse function, muscle function, cardiac function

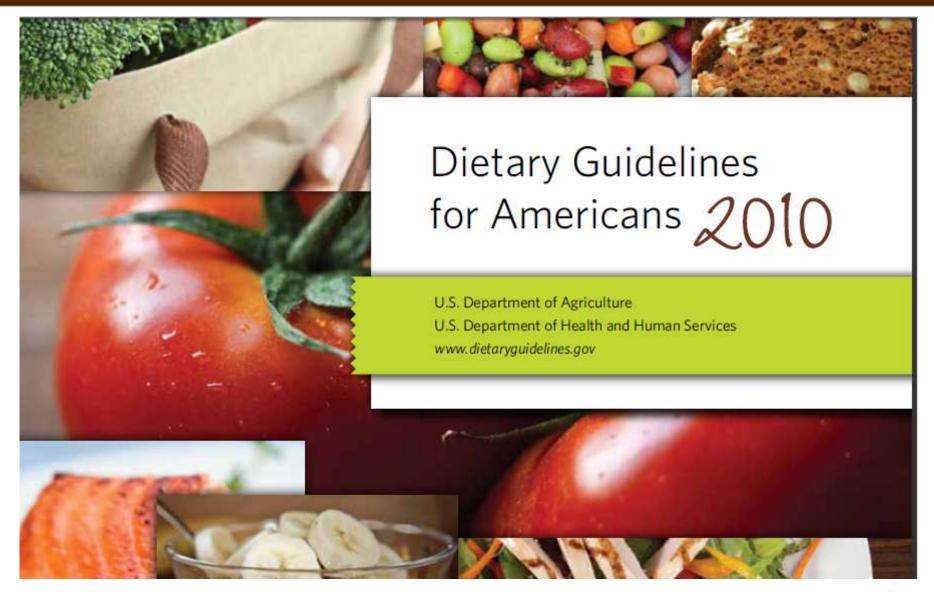
#### PORK is a Source of:

\*Vitamin B12 - needed for building proteins in the body, red blood cells and normal function of nervous tissue

\*Iron (heme-iron) - needed for the formation of hemoglobin, which carries oxygen from the lungs to the body cells

<sup>\*</sup> only found in animal products







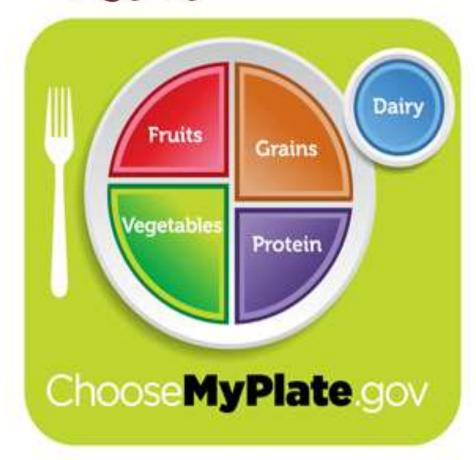
# Dietary Guidelines for Americans 2010

- Balancing Calories to Manage Weight
- Foods and Food Components to Reduce
- Foods and Nutrients to Increase
- Building Healthy Eating Patterns
- Helping Americans Make Healthy Choices





# Dietary Guidelines for Americans 2010







## **MyPlate Key Messaging**

Date	Key Message
2011	Make half your plate fruits and vegetables
2012: Jan - April	Enjoy your food, but eat less.
2012: May - Aug	Drink water instead of sugary drinks.
2012: Sept - Dec	Make at least half your grains whole grains.
2013: Jan - Apr	Avoid oversized portions.
2013: May - Aug	Compare sodium in foods like soup, bread, and frozen meals — and choose the foods with lower numbers.
2013: Sept - Dec	Switch to fat-free or low-fat (1%) milk.





# Dietary Guidelines for Americans 2010





- •MyPyramid continues to provide the background needed to build the simple, healthy plate
- •MyPlate explains the detail of MyPyramid to help people plan meals, eat wisely and improve their health





# Dietary Guidelines for Americans 2010









## School Nutrition Standards Healthy, Hunger-Free Kids Act

The new meal requirements will raise standards for the first time in more than fifteen years and improve the health and nutrition of nearly 32 million kids that participate in school meal programs every school day.

#### Changes include:

- Ensuring students are offered both fruits and vegetables every day of the week
- Substantially increasing offerings of whole grain-rich foods
- Offering only fat-free or low-fat milk varieties
- Limiting calories based on the age of children being served to ensure proper portion size





## School Nutrition Standards Healthy, Hunger-Free Kids Act

#### Changes include:

- Increasing the focus on reducing the amounts of saturated fat, trans fats and sodium
- Modified breakfast meat and or meat alternative no longer required at breakfast
- Providing vegetable options for student and smaller portions,
   with the intent of decreasing plate waste
- Longer implementation period
- Cost savings changes will save \$3.6 billion over five years





Final Rule Nutrition Standards in the National School Lunch and School Breakfast Programs - Jan. 2012

	Breakfast M	eal Pattern	T	Lunch Meal Pattern			
	Grades K-5 <sup>a</sup>	Grades 6-8 <sup>a</sup>	Grades 9-12 <sup>a</sup>	Grades K-5	Grades 6-8	Grades 9-12	
Meal Pattern	Amount of Food <sup>b</sup> Per Week (Minimum Per Day)						
Fruits (cups)c,d	5 (1) e	5 (1) e	5 (1) e	2½ (½)	2½ (½)	5 (1)	
Vegetables (cups) <sup>c,d</sup>	0	0	0	33/4 (3/4)	33/4 (3/4)	5 (1)	
Dark green f	0	0	0	1/2	1/2	1/2	
Red/Orange <sup>f</sup>	0	0	0	3/4	3/4	11/4	
Beans/Peas (Legumes) <sup>f</sup>	0	0	0	1/2	1/2	1/2	
Starchy <sup>f</sup>	0	0	0	1/2	1/2	1/2	
Other <sup>f,g</sup>	0	0	0	1/2	1/2	3/4	
Additional Veg to Reach Total <sup>h</sup>	0	0	0	1	1	1½	
Grains (oz eq) i	7-10 (1) <sup>j</sup>	8-10 (1) <sup>j</sup>	9-10 (1) <sup>j</sup>	8-9 (1)	8-10 (1)	10-12 (2)	
Meats/Meat Alternates (oz eq)	0 <sup>k</sup>	0 k	0 k	8-10 (1)	9-10 (1)	10-12 (2)	
Fluid milk (cups) 1	5 (1)	5 (1)	5 (1)	5 (1)	5 (1)	5 (1)	
Other Spe	ecifications: [	Daily Amoun	t Based on th	ne Average f	or a 5-Day V	Veek	
Min-max calories (kcal) <sup>m,n,o</sup>	350-500	400-550	450-600	550-650	600-700	750-850	
Saturated fat (% of total calories) <sup>n,o</sup>	< 10	< 10	< 10	< 10	< 10	< 10	
Sodium (mg) <sup>n, p</sup>	≤ 430	<u>≤</u> 470	≤ 500	≤ 640	≤ 710	≤ 740	
Trans fat <sup>n,o</sup>	Nutrition label	or manufacture	specifications m	ust indicate zero	grams of tran	s fat per serving	





HEALTHY, HUNGER-FREE KIDS ACT OF 2010

#### Before/After Elementary School Lunch Menu

#### Monday

#### BEFORE

Bean and cheese burrito (5.3 oz) with mozzarella cheese (1 oz) Applesauce (1/4 cup) Orange Juice (4 oz) 2% Milk (8 oz)

#### AFTER

Submarine Sandwich
(1 oz turkey, .5 oz low-fat cheese)
on Whole Wheat Roll
Refried Beans (1/2 cup)
Jicama (1/4 cup)
Green Pepper Strips (1/4 cup)
Cantaloupe wedges, raw (1/2 cup)
Skim Milk (8oz)
Mustard (9 grams)
Reduced fat mayonnaise (1oz)

Low Fat Ranch Dip (1 oz)

#### Tuesday

#### BEFORE

Hot dag on bun (3 az) with ketchup (4 T) Canned Pears (1/4 cup) Raw Gelery and Carrots (1/8 cup each) with ranch dressing (1.75 T) Low-fat (1%) Chocolate Milk (8 az)

#### AFTER Whole Wheat Spaghetti

with Meat Sauce (1/2 cup) and Whole Wheat Roll Green Beans, cooked (1/2 cup) Broccoli (1/2 cup) Cauliflower (1/2 cup) Kiwi Halves, raw (1/2 cup) Low-fat (1%) Milk (8 oz) Low Fat Ranch Dip (1 oz) Soft Margarine (5 g)

#### Wednesday

#### BEFORE

Pizza sticks (3.8 oz) with marinara sauce (1.4 cup) Banona Raisins (1 oz) Whole Milk (8 oz)

#### AFTER

Chef Salad
(1 cup romaine., 5 oz low-fat mozzarella,
1,5 oz grilled chicken) with Whole Wheat
Soft Pretzel (2,5 oz)
Corn, cooked (1/2 cup)
Baby Carrots, raw (1/4 cup)
Banana
Skim Chocolate Milk (8 oz)
Low Fat Ranch Dressing (1,5 oz)
Low Fat Italian Dressing (1,5 oz)

#### Thursday

#### BEFORE

Breaded beef patty (4 oz) with ketchup (2 T) Wheat roll (2 oz) Frozen Fruit Juice Bar (2.4 oz) 2% Milk (8 oz)

#### AFTER Oven-Baked Fish nuggets (2 oz)

with Whole Wheat Roll
Mashed Potatoes (1/2 cup)
Steamed Broccoli (1/2 cup)
Peaches
(canned, packed in juice - 3 cup)
Skim Milk (8 oz)
Tartar Sauce (1.5 oz)
Soft Margarine (5 g)

#### Friday

#### BEFORE

Cheese pizza (4.8 oz)
Canned Pineapple (1/4 cup)
Tater Tots (1/2 cup)
with ketchup (2 T)
Low-fat (1%) Chacolatz Milk (8 oz)

#### AFTER Whole Wheat Cheese Pizza

(1 slice)

Baked Sweet Potato Fries
(1/2 cup)

Grape tomatoes, raw (1/4 cup)

Applesauce (1/2 cup)

Low-fat (1%) Milk (8 oz)

Low Fat Ranch Dip (1 oz)





## School Nutrition Standards Today's Pork: A Wise School Menu Choice



- •Pairing pork with fruits and vegetables is an easy—and tasty—way to meet the new dietary guidelines.
- •Pork is a lean, low-calorie source of protein that is packed with important nutrients that we need in our diet each day.
- Pork is readily available, affordable and easy to prepare.





### **Today's Pork: Pork Cuts** Fresh Boneless Ham (Leg) Roast

# Pork Basics

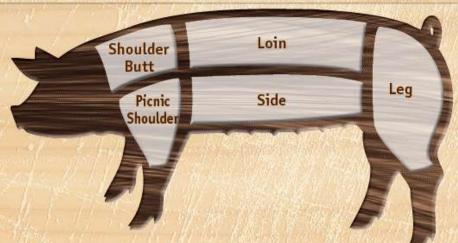




Upper row (l-r): Bone-in Fresh Ham, Smoked Ham

Lower row (l-r): Leg Cutlets, Fresh

**Boneless Ham Roast** 







Method	Cut	Thickness/ Weight	Internal Temp. followed by 3 minute rest	Average Recommended Cooking Time (minutes per pound OR total minutes)
	Loin Roast, Bone–In and Boneless*	2-5 lbs.	145° F	20 minutes per lb.
Roasting	Crown Roast*	10 lbs.	145°	12 minutes per lb.
Roast at 350° F.,	Fresh Leg/Uncured Ham*	18–20 lbs.	145°	15 minutes per lb.
unless otherwise noted. Roast in a shallow pan, uncovered	Tenderloin (roast at 425°F.)	½-1½ lbs.	145°	20-27 minutes total time
	Ribs	_	Tender	1½–2 hours
	Ham, fully cooked	5–6 lbs.	140°	20 minutes per lb.
<b>Broiling</b> 4–5 inches from heat	Loin Chops, Bone-In or Boneless (¾ inch thick)	¾ inch	145°	8-9 minutes total time
OR	Thick Loin Chops, Boneless (1½ inch thick)	1½ inches	145°	12-16 minutes total time
Grilling over direct, medium	Loin Kabobs	1 inch cubes	Tender	10–15 minutes total
heat; turn once halfway through grilling	Tenderloin	½-1½ lbs.	145°	20 minutes total time
tillough gilling	Ground Pork Patties	½-inch	160°	8–10 minutes total time
Barbecuing	Loin Roast, Bone–In and Boneless*	2-5 lbs.	145°	2 lbs. roast = 20 minutes per lb. $3\frac{1}{2}$ -5 lbs. roast = 15 minutes per lb.
over indirect medium heat (285° F.)	Shoulder (Butt)*	3–6 lbs.	Tender	45 minutes per lb.
110dt (200 1.)	Ribs		Tender	1½-2 hours total

<sup>\*</sup>Note: For easier slicing and to allow the pork juices to redistribute throughout the meat, remove larger cuts, such as roasts, from the oven or grill, loosely cover with foil, and let stand for 10 to 15 minutes before serving.





#### **Today's Pork: NEW Cookery Information**



## Be 145°F.



**Pork today is very lean and shouldn't be overcooked.** To check doneness, use a digital cooking thermometer. The National Pork Board follows the guidance of the U.S. Department of Agriculture, which recommends cooking roasts, tenderloins, and chops to an internal temperature of 145 degrees F., followed by a 3 minute rest time, resulting in a flavorful, tender and juicy eating experience.



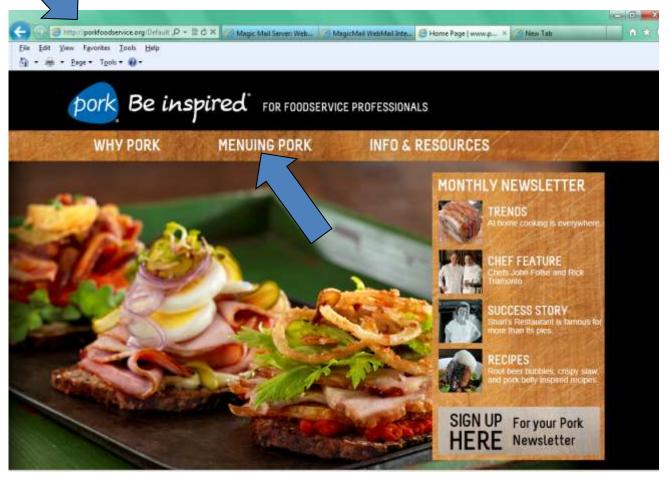
Ground pork, like all ground meat, should be cooked to 160 degrees F. Pre-cooked ham can be reheated to 140 degrees F. or enjoyed cold.





### **Today's Pork: Taste for Yourself**

#### **BBQ Pork and Apple Pita**







# Today's Pork: Taste for Yourself BBQ Pork and Apple Pita







#### **Today's Pork: Taste for Yourself**

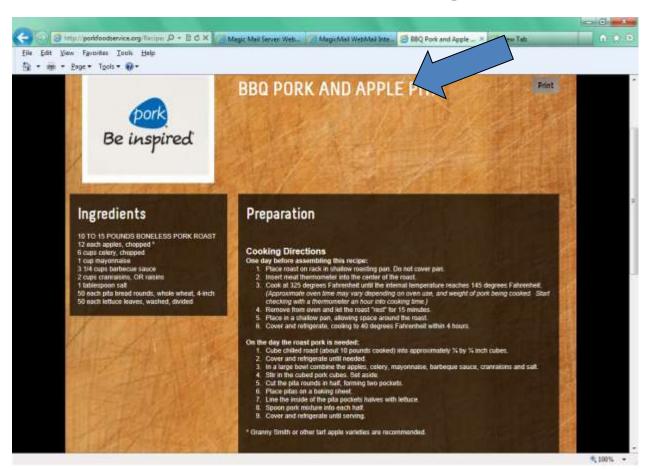
#### **BBQ Pork and Apple Pita**







## Today's Pork: Taste for Yourself BBQ Pork and Apple Pita







## Today's Pork: Taste for Yourself BBQ Pork and Apple Pita

www.PorkFoodService.org

#### **INGREDIENTS**

10 to 15 pounds boneless pork roast

3 1/4 cups barbecue sauce

1 cup light mayonnaise

12 medium apples, chopped \*

6 cups chopped celery

2 cups sweetened, dried cranberries or raisins

50 whole wheat pita bread rounds

50 lettuce leaves, divided



<sup>\*</sup> Granny Smith or other tart apple varieties are recommended

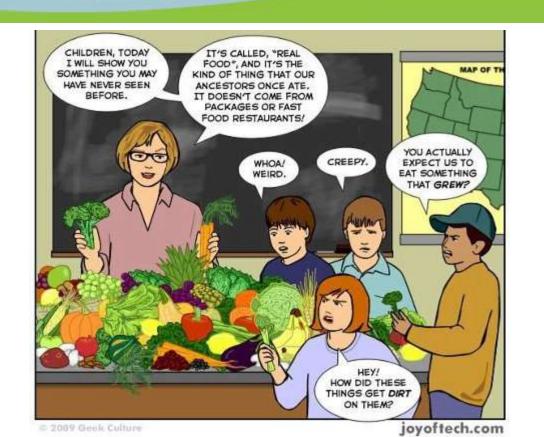




Institute for Agriculture and Trade Policy

## Farm2School

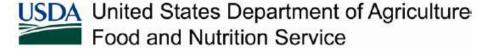














#### **USDA Foods Fact Sheet for Schools & Child Nutrition Institutions**

(last updated, 04-02-12)

Visit us at www.fns.usda.gov/fdd

#### 100173 - PORK, LEG ROAST, FROZEN, 36-42 LB

#### **Nutrition Information**

CATEGORY	Meat/Meat Alternates	Pork, fresh, leg (ham), separable lean and fat, cooked, roasted	
PRODUCT DESCRIPTION	<ul> <li>Frozen boneless, trimmed, netted pork leg (fresh ham) roast prepared from U.S. inspected fresh domestic pork.</li> </ul>		1 oz (28 g)
PACK/YIELD	Individual roasts are vacuum packaged and packed 36-42 lbs net weight per case.	Calories Protein	77 7.60 g
	One lb AP pork outside roast yields about 0.58 lb cooked trimmed, sliced lean meat and provides about 9.28 servings 1 oz cooked lean meat.	Carbohydrate Dietary Fiber Sugars	0 g 0 g 0 g
	One lb AP pork inside roast yields about 0.54 lb cooked trimmed, sliced lean meat and provides about 8.64 servings 1 oz cooked lean meat.	Total Fat Saturated Fat	4.99 g 1.833 g
	<ul> <li>CN Crediting: 1 oz cooked pork provides 1 oz-equivalent meat/meat alternate.</li> </ul>	Trans Fat Cholesterol Iron	0 g 27 mg 0.29 mg
STORAGE	<ul> <li>Store frozen pork roasts in original shipping container off the floor at or below 0 °F.</li> </ul>	Calcium Sodium Magnesium	4 mg 17 mg 6 mg
	<ul> <li>Refrigerate leftover pork covered and labeled in a dated container and use within 2 days</li> </ul>	Potassium Vitamin A	100 mg 3 IU
	Use First-In-First-Out (FIFO) storage practices to ensure use of older product first.	Vitamin A Vitamin C Vitamin E	1 RAE 0.1 mg 0.06 mg



































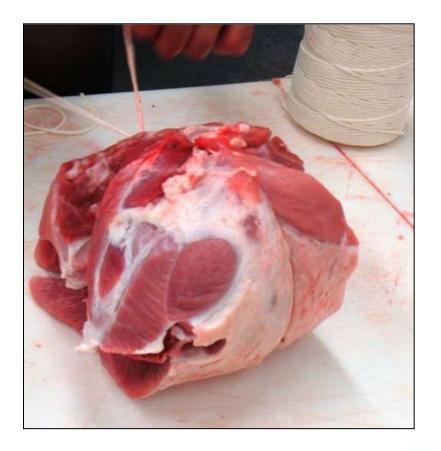






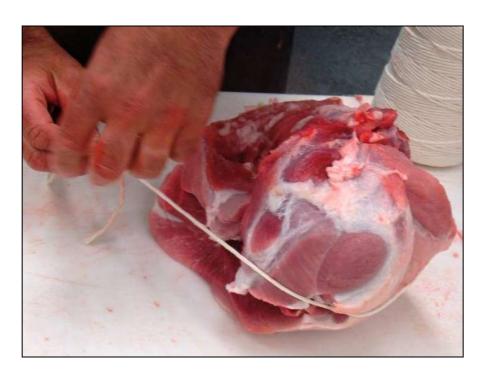


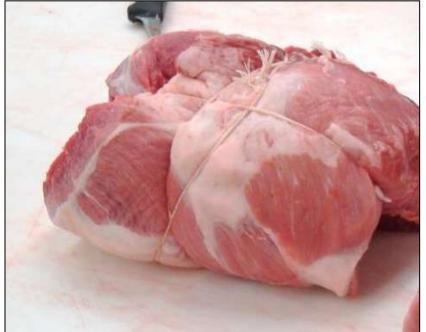
















#### **Today's Pork: Taste for Yourself**

#### **BBQ Pork and Apple Pita**

www.PorkFoodService.org

#### PREPARATION DIRECTIONS

Place pork roast on rack in shallow roasting pan. Do not cover pan. Insert oven-proof meat thermometer into center of roast. Place pan in 325°F oven and bake until the internal temperature of meat reaches 145°F.

Cooking time will vary depending on oven type and weight of pork roast. Start checking thermometer one hour into cooking time.)

Remove cooked roast from oven, loosely cover with foil and let rest for 15 minutes.

Place cooked roast in shallow container, allowing space around the meat.

Cover and refrigerate, cooling to 40°F within 4 hours.





#### **Today's Pork: Pork Cuts**

#### Fresh Boneless Ham (Leg) Roast







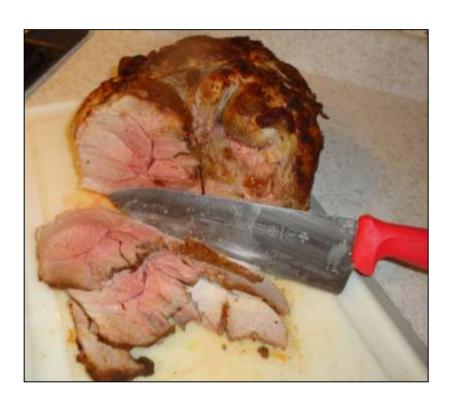


















## Today's Pork: Taste for Yourself BBQ Pork and Apple Pita

www.PorkFoodService.org

Cut chilled roast (about 10 pounds cooked) into approximately 1/4-inch cubes. Cover and refrigerate until needed.

In large bowl combine barbecue sauce and light mayonnaise. Stir in chopped apples, chopped celery and sweetened, dried cranberries. Stir in pork cubes.

Cut each pita bread round crosswise, forming two pockets.

Place pita pockets on baking sheets. Line the inside of each pita pocket with lettuce leaf. Spoon pork mixture into each pocket. Cover and refrigerate until serving.





#### **Today's Pork Agenda**

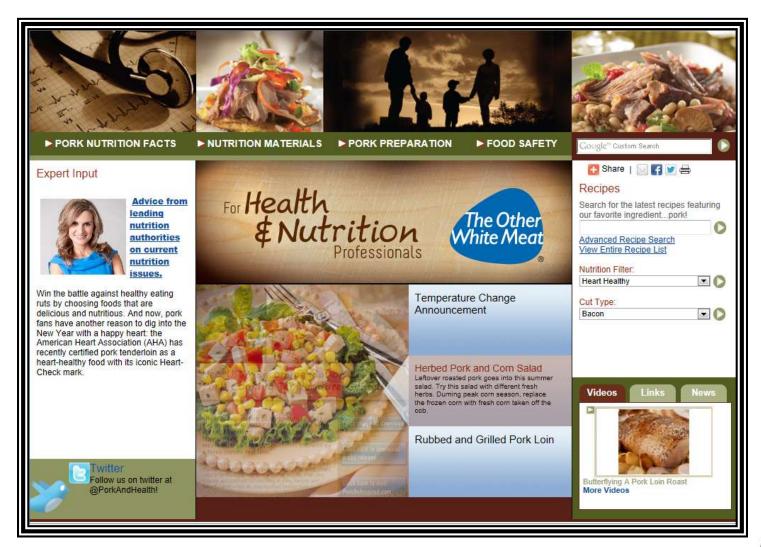
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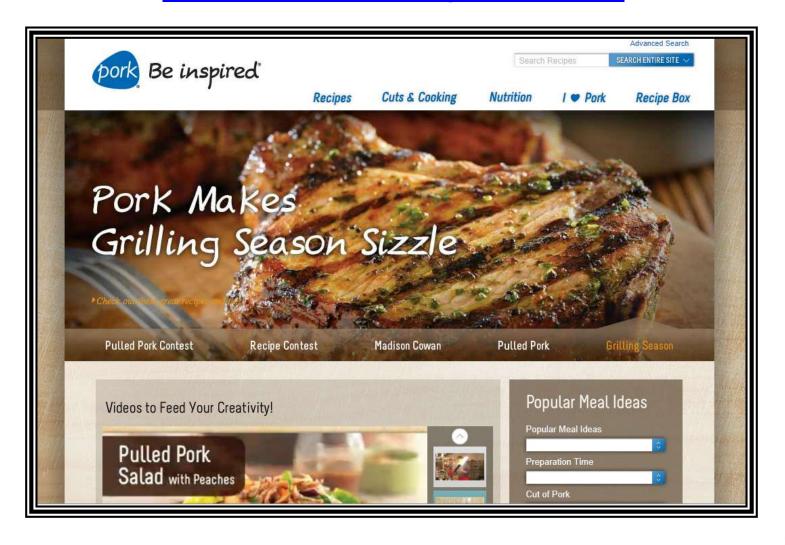
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#### www.PorkBelnspired.com







#### Facebook.com/PorkBeInspired







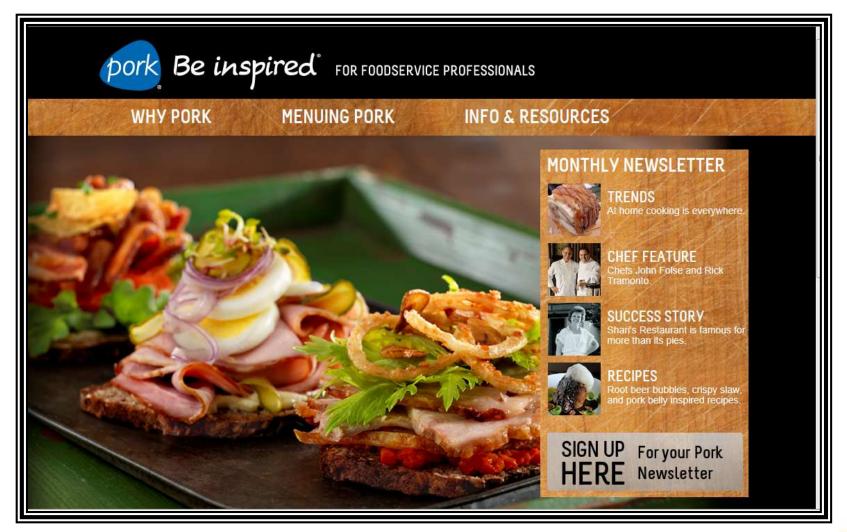
#### www.Pork4Kids.com







#### www.PorkFoodService.org







#### **QUESTIONS?**



