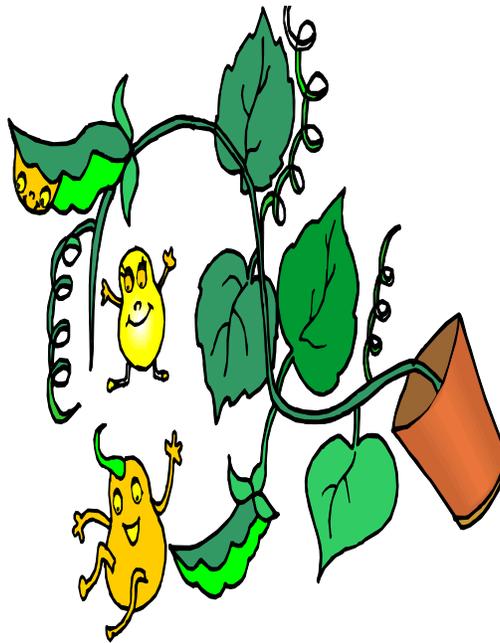


Cooking with Food Storage

Ingredients:

Dry Beans



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Use it or Lose it...Dry Beans

Varieties

There are many different beans in the legume family. They store well, cost little, and provide a punch for the nutrition dollar. While the following is a partial list of legumes and a suggested cooking hint, beans may be interchanged in most recipes. Often names are interchanged.

Baby Lima – milk flavored. Serve as a vegetable or in casseroles.

Light Red Kidney- Excellent in any recipe calling for cooked beans.

Black-eye Peas – Dry form of the popular pea. Cook with pork or chicken.

Navy – Medium-sized white pea bean. Great for baked beans and soup.

Dark Red Kidney – Colorful salad bean mainly sold in canned form.

Pink – Great barbecue style or cooked with other spicy seasonings.

Turtle or Black Bean – A favorite in southern Mexico and Caribbean. Great with rice.

Garbanzo or Chick Peas – Nut-like flavor. Ideal for salads and appetizers.

Pinto- Popular in chili, refried beans, and other Mexican dishes.

Great Northern – Larger than small white or navy beans. Good for baking.

Red- Dark red, pea-shaped. Use in any colored bean recipe.

Large Limas- Rich, buttery flavor. Cook with smoked meat or cheese.

Small White – Firm texture holds up under long slow baking.

Anasazi or Ancient Ones – Cooks in about half the time, sweeter flavor, mealier, less gas.

Bean Nutrition

A serving of beans and legumes is considered to be 1 cup cooked. Legumes are considered high in fiber, low in fat, and a good source of protein, carbohydrates, folate, and many trace minerals. They are also low cost, thus providing good nutrition for reasonable money.

Food Safety

Dry legumes must be cooked completely before eating. For this reason it is not recommended to grind dry beans and then simply mix with hot water to make instant refried beans.

Gas

Gas is an undesirable side effect of eating legumes. The body lacks enzymes to digest some sugars in the beans. Since the sugars are not digested, they ferment in the digestive tract creating gas. Following are a few ways to help alleviate undesirable gas:

1. Soak beans a minimum of 3 hours (8-12 hours is better); change soaking and cooking water 2-3 times.
2. Sprout beans – soak beans 2-3 days, changing water 3-4 times, until beans begin to sprout. Add the lacking enzyme to the diet in the form of tablets or liquid; one commercial product is called “Beano®.”

Soaking Beans

1. Quick Soak Method: hot soaking helps dissolve some of the gas-causing substances. Cover beans with twice as much water as beans, bring to a boil, boil 2 minutes, remove from heat and allow to soak at least 1 hour or up to 4 hours. Discard soaking liquid.

2. Traditional Overnight Soak: Cover with twice as much water as beans and soak 8-18 hours in cool place, discard soaking water.
3. Do not salt soaking liquid. It will toughen the bean.
4. It is not necessary to soak split peas and lentils.

Cooking Legumes

1. Beans will double to triple in size during soaking and cooking. In other words, 1 cup dry beans will produce 2-3 cups of cooked beans.
2. The slower the beans are cooked the easier they are to digest. Slow cooker cooking on low for 6-10 hours is perfect.
3. If adding water to cooking beans is necessary, bring water to a boil before adding. Adding cold water to boiling beans will toughen beans and slow down cooking process.

Softening Old Beans

The older the bean the tougher it is and less digestible. Following are a few tips to soften old beans.

1. Cook and freeze. The freezing moisture in the bean helps to rupture the cell wall and create a more palatable product.
2. Pressure cook. Follow manufacturer's directions for using pressure cooker. Increase cooking time as needed to produce a desired texture.
3. Pressure-can beans. This method makes a readily usable product as well as softens beans. Follow USDA canning instructions below for pressuring.

Increasing Consumption of Beans

You should eat beans about 2-3 times a week. (2½ to 3 cups per week)

1. Plan menus.
2. Puree cooked beans and add to baked goods (bread, cake, cookies, etc.). Substitute pureed beans for shortening or margarine, straight across. (equal amounts)
3. Prepare convenience foods such as home canned dry beans or cook and freeze for later use.
4. Add whole mashed beans to meatloaves, soups, stews, casseroles (in small amounts to begin with, then increase as desired, and as allowed by family taste preference.)

Taken from: Food Storage Cooking School- Low and Hendricks, USU Extension, Salt Lake County, 1/99. Copies may be made for individual and non-profit use.

Home Canned Dry Beans or Peas

USDA Complete Guide to Home Canning, Bulletin # 539, printed 1994

Use any variety of mature dry beans. Approximately 1¼ cups (dry measure) will be needed per quart. (Or, 5 pounds will produce 7 quart jars, 3¼ pounds will be needed for 9 pint jars.)

1. Wash and sort beans.
2. Hydrate by (1) Placing beans in a large pan and covering with water. Soak 12-18 hours in a cool place. Drain water; or (2) to quickly hydrate beans, you may cover sorted and washed

beans with boiling water in a saucepan. Boil 2 minutes, remove from heat, soak 1 hour and drain.

3. Cover beans soaked by either method with fresh water. Boil 30 minutes. Add ½ tsp. of salt per pint or 1 tsp. per quart to the jar, if desired. Fill jars with beans and cooking liquid, leaving 1 inch head space.
4. Adjust lids and bands and process in pressure canner 90 minutes for quarts or 75 minutes for pints at: 13 pounds of pressure for 4,000-6,000 feet elevations, 14 pounds of pressure for 6,000-8,000 feet elevations (if pressure canner has a weight only, process at 15 pounds of pressure.)

It is suggested that any home pressure canned foods be boiled for 10 minutes before tasting.

Cooked Beans

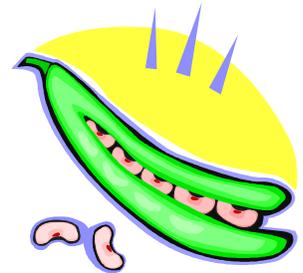
1 cup dried beans

Water for soaking

3 cups water

1 Tbsp. canola oil

Sort and soak beans. In a medium saucepan, combine drained soaked beans, water, and oil. Bring to a boil; reduce heat. Cover and simmer until beans are tender.



Bean Cooking Times

Beans (Soaked)	In a Saucepan	In a Pressure Cooker at 15 Pounds Pressure
Black Beans	1 to 1½ hours	5 to 8 minutes
Garbanzo Beans	1 to 1½ hours	5 to 7 minutes
Great Northern Beans	1 to 1½ hours	5 to 7 minutes
Lima Beans, Large	45 to 60 minutes	Not recommended
Lima Beans, Baby	1 hour	Not recommended
Pea Beans	1 to 1½ hours	5 to 8 minutes
Small White Beans	1 to 1½ hours	5 to 8 minutes
Pink Beans	1 to 1½ hours	6 to 8 minutes
Pinto Beans	1 to 1½ hours	5 to 7 minutes
Red Beans	1 to 1½ hours	6 to 8 minutes
Red Kidney Beans	1 to 1½ hours	5 to 8 minutes
Soybeans	3 hours	12 to 15 minutes

Hints:

1. Rinse all beans and legumes in cold water. Remove all dirt, rocks, or bad beans.
2. Add $\frac{1}{8}$ tsp. baking soda and 1 Tbsp. cooking oil to each cup of beans while soaking. This will shorten the cooking time and decrease foaming.
3. Add meat, onions, celery, and herbs during cooking to add more flavor. Add tomatoes, catsup, vinegar and other acid foods after the beans are tender. The acid prevents softening of the beans.
4. Cooked beans freeze well and will keep up to 6 months in the freezer.

Bean Recipes

Fiesta Casserole

2 cups drained, cooked pinto beans, or

1 (15 oz.) can pinto beans drained

$\frac{1}{2}$ lb. ground beef

$\frac{1}{2}$ cup chopped onion

1 tsp. salt

$\frac{1}{4}$ tsp. pepper

1 (28 oz.) can tomatoes, un-drained, diced

1 (15 oz.) can Mexican stewed tomatoes

1 (4 oz.) can diced or chopped green chilies

$\frac{1}{4}$ tsp. garlic powder

$\frac{1}{2}$ tsp. ground cumin

1 tsp. chili powder

$\frac{1}{2}$ tsp. dried leaf oregano

1 (8 oz.) can tomato sauce

6 corn tortillas

2 cups shredded cheddar cheese

Prepare pinto beans. In large skillet, sauté onions in 1 tsp. margarine until partially cooked. Add ground beef. Brown with onion until thoroughly cooked. Add salt, pepper and beans; stir. In medium saucepan, combine tomatoes, green chilies, garlic powder, cumin, chili powder, oregano, and tomato sauce. Bring to boil; reduce heat. Cover and simmer 10 minutes. Preheat oven to 350° F. Spray 2 qt. rectangular baking pan with cooking spray. Spread thin layer of sauce on bottom of baking pan. Top with 3 cut-up tortillas. Spread half of bean-beef mixture over tortillas. Pour half sauce over to cover. Sprinkle with half of cheese. Repeat layers with remaining ingredients, reserving some cheese for top. Bake 30 minutes. Sprinkle remaining cheese on casserole for last 5 minutes of baking. Cut into rectangles. Makes 4 to 6 servings.

Wheat and Bean Chili

1 cup uncooked dry beans
1 cup uncooked wheat
1 quart water
1 onion, chopped
1 lb. ground beef
1 clove garlic
2 tsp. canola or olive oil

1 large (46 oz.) can tomato juice
1 (15 oz.) can Mexican-flavored stewed tomatoes*
1 tsp. chili powder
Salt and paprika to taste
2 tsp. brown sugar
½ tsp. cumin

Cook wheat and beans together in one quart of water (may be soaked overnight before cooking). Cook until almost tender. In separate pan, sauté meat, onions and garlic in canola or olive oil. Drain. Add to beans. Add other ingredients. Simmer for 1 hour. Season to taste.

*Fresh tomatoes may be added in place of canned stewed tomatoes. Use about 8 skinned tomatoes. Adjust spices for flavor.

Minestrone Soup

2 Tbsp. oil
1 lb. hamburger
¾ cup chopped onions
1 cup chopped celery
1½ quarts water
1 Tbsp. beef bouillon crystals
1½ tsp. salt
¼ tsp. pepper
¼ tsp. oregano

1 cup green beans or peas
½ cup kidney beans
1 cup wheat berries
1 cup sliced zucchini
½ cup shredded cabbage
½ cup sliced carrots
½ cup minced parsley
1 (15 oz.) can Italian-flavored stewed tomatoes

Heat oil; add ground beef and onion, sauté until onions are straw-colored. Drain grease from beef; add celery, water, and beef bouillon. Cover and simmer slowly until celery is tender. Add remaining ingredients. Cover and simmer 15 minutes. Yield: 8-10 servings.

Another Minestrone Soup

½ lb sausage or hamburger
2 cans diced tomatoes
1 small can tomato sauce
1 small yellow onion
1 can corn
1 can green beans
1 can kidney beans (about 2 cups)

1 can garbanzo beans (about 2 cups)
Oregano
Parsley
Sage
Salt & Pepper
Water

Brown sausage or hamburger on the stove. When browned, put in crock pot along with diced tomatoes and onion. Let stand for a few hours, or all day, cooking on low or medium heat. One hour before serving, add in drained corn, green beans, kidney beans and garbanzo beans. Add spices, salt and pepper to taste. Add water to the consistency you like.

Taco Soup

1 lb. lean ground beef	1 can kidney beans
1 onion, chopped	1 can black beans
1 can (28-oz.) tomatoes, crushed	1 can corn, drained
1 can (8 oz.) tomato sauce	1 pkg. taco seasoning mix

In a large saucepan, sauté ground beef and onion; drain fat. Add tomatoes, tomato sauce, drained kidney beans, corn and seasoning mix. Simmer 15 minutes. Garnish with grated cheese, sour cream, diced green onions, sliced black olives, salsa guacamole or tortilla chips. Yield 4-6 servings.

Old Fashioned Split Pea Soup

1 lb. green split peas	1 (1 lb.) meaty ham shank,	8 cups water
1 cup chopped celery	cut in 3 or 4 pieces	2 chicken bouillon cubes
1 cup chopped onion	1 medium potato, peeled,	1 bay leaf
1 garlic clove, minced	diced	½ cup milk
2 Tbsp. canola oil	¼ tsp. pepper	

Sort and rinse peas. In heavy 4 quart pot, sauté celery, onion, and garlic in oil until onion is tender but not browned. Add rinsed peas, ham shank pieces, potato, pepper, water, bouillon cubes and bay leaf. Bring to boil; reduce heat. Cover and simmer until peas are very tender, about 45 minutes. Remove and discard bay leaf. Remove ham shank pieces. Cut meat from bones and discard bones. Dice meat; set aside. Puree soup in blender or food processor and return to pot. Stir in diced meat and milk. Cook over medium heat 10 minutes, stirring frequently. Serve steaming hot in large soup bowls. Makes 6 to 8 servings.

Six Bean Barbecued Beans

8 slices bacon, diced, and browned until crisp	2 cans pork and beans
½ lb. ground beef, browned and drained	1½ cups ketchup
1 chopped onion, sauté and add to beef	½ cup brown sugar
1 can kidney beans	1 tsp. hickory smoke flavor
1 can pinto beans	1 tsp. salt
1 can Great Northern beans	1 tsp. vinegar
1 can butter (Lima) beans	1 tsp. prepared mustard
1 can navy beans	Other seasonings, to taste

Place all ingredients in a 5-6 quart slow cooker. Cook on low 4-6 hours.

Quick and Easy Bean Pot

½ lb. bacon, fried until crisp, then crumbled
1 onion, chopped
½ lb. ground beef
4 (16 oz.) cans pork and beans

1 cup tomato catsup
¼ cup brown sugar
1 tsp. Worcestershire sauce

Sauté onion in bacon drippings until tender. Add ground beef. Fry until ground beef is cooked through. Add remaining ingredients. Simmer in large heavy pan on stove for at least one hour or simmer in a slow cooker for 2-3 hours. You may add seasoning salt, chili powder, or other spices to your taste.

Crock Pot Beans

2 cups dried beans (such as pinto, kidney, etc.)
8 cups water

Optional additions:

1 small onion, chopped
2 cloves garlic, minced
1 tsp cumin
½ tsp pepper
½ tsp oregano
1 tsp salt

Sort beans checking for rocks, dirt, etc. Rinse well. Combine rinsed beans and water in crock-pot. Cook on low for 6-8 hours (or overnight) until beans are soft. At this point, remaining ingredients may be added—continue cooking until onion is tender (about 30 minutes). Beans may be used in any recipe that calls for canned beans, with or without the additional ingredients. The beans keep in the refrigerator for 2-3 days or may be frozen for later use.

Bean Puree

1 cup dried large lima beans, Great Northern beans, or pinto beans
Water for soaking
3 cups water
1 tsp. salt
1 Tbsp. canola oil

In medium saucepan, combine drained soaked beans, 2½ cups water, salt and oil. Bring to boil; reduce heat. Cover and simmer until beans are tender 1 to 1½ hours. Drain beans, reserving cooking liquid. Put 1 to 2 cups beans in blender with ¼ cup to ½ cup reserved cooking liquid. Blend on medium speed until smooth, stopping blender occasionally to scrape sides and stir puree up from bottom. Bean mixture should circulate slowly. Makes about 2 cups of puree.

Apple Surprise Cake

1 cup Bean Puree made with pinto beans	2 tsp. baking powder
½ cup shortening or applesauce	½ tsp. salt
1 cup sugar	1 tsp. ground cinnamon
1 egg	½ tsp. ground cloves
½ cup apple butter	½ tsp. ground allspice
1½ cups flour	1 cup diced, peeled apple

Prepare bean puree (see page 28). Grease 9x13 inch pan. Preheat oven to 350° F. In medium bowl, cream shortening and sugar until light and fluffy. Add egg; continue beating until light. Stir in Bean Puree and apple butter. Sift together flour, baking powder, salt, cinnamon, cloves, and allspice into medium bowl. Stir flour mixture into bean mixture until blended. Mix in diced apple. Pour into greased pan. Bake 40 to 50 minutes. Cool cake in pan. Cover top of cooled cake with icing.

Spicy Zucchini Bread

1 cup Bean Puree made with pinto beans	2 cup sifted flour
3 eggs	1 tsp. salt
1½ cup sugar	1 tsp. baking soda
½ cup canola oil	2½ tsp. baking powder
1½ cup shredded zucchini	2 tsp. ground cinnamon
1 tsp. vanilla	

Prepare bean puree (see page 28). Grease two 9x5 inch loaf pans. Preheat oven to 350° F. In large bowl, combine eggs, sugar and oil. Beat with electric mixer until smooth. Add zucchini, Bean Puree and vanilla. Sift together flour, salt, baking soda, baking powder, and cinnamon. Add to bean mixture. Stir until blended. Pour into greased pans. Bake 40 to 50 minutes or until wooden pick inserted in center comes out clean. Remove from pan. Cool on a rack. May be stored in an airtight plastic bag at room temperature or in the refrigerator.

Awesome Oatmeal Cookies

¾ cup white beans, mashed	3 cups oats
1 cup brown sugar	1 cup whole wheat flour
½ cup granulated sugar	1 tsp. salt
1 egg	½ tsp. soda
1 teaspoon vanilla	

Preheat oven to 350°. Beat mashed white beans, brown sugar, granulated sugar, egg, and vanilla until smooth and creamy. Combine remaining ingredients in a separate bowl and mix together. Add to bean and sugar mixture; mix well. Drop onto greased cookie sheets and bake at 350° F for 10 minutes. Cool on cookie sheet for 5 minutes then transfer to wire rack and cool completely.

Yield: approximately 36 cookies

Nuts, coconut, raisins, and/or chocolate chips may be added with dry ingredients.

Banana Bread

2 ripe bananas	1½ tsp. vanilla extract
2 eggs	1¾ cups flour (at least half of this should be whole wheat)
¼ cup mashed white beans	1 tsp. baking soda
¼ cup Smart Balance® margarine (or more beans)	½ tsp. salt
1¼ cups white sugar	

Preheat oven to 300° F. Grease one 9x5 inch loaf pan. In medium bowl, mash bananas and stir in eggs until well blended; set aside. In large bowl, beat beans and Smart Balance together, and gradually add sugar. Stir in vanilla and banana mixture. Wisk together the flour, baking soda, and salt; blend into batter. Add walnuts if desired. Pour into pan. Bake for 1 hour 15 minutes (check after 50-60 minutes), or until toothpick inserted into center of loaf comes out clean.

Carrot Cake

4 eggs or equivalent egg substitute	2 cups all purpose flour
2 cups sugar	2 tsp. baking soda
⅔ cup white beans, pureed until smooth paste	2 tsp. cinnamon
1 tsp. vanilla	1 tsp. salt
1 (8 oz) can crushed pineapple, drained	1 cup walnuts, chopped (reserve 1-2 Tbsp. to sprinkle on top)
2 (14.5oz) cans sliced carrots, drained and mashed	

Prepare 9x13 inch pan with cooking spray and dust lightly with flour. Preheat oven to 375° F. Beat eggs thoroughly in large bowl. Add sugar and beat well. Beat in beans and vanilla. Add pineapple and carrots. Combine dry ingredients and stir gently into batter. Fold in walnuts. Pour into prepared pan. Bake 35 – 45 minutes or until sides pull away from pan and toothpick inserted in middle comes out clean. Cool completely before frosting.

Cream Cheese Frosting

1 (8 oz) package cream cheese, softened, (fat free or reduced fat)	1 tsp. vanilla
1 Tbsp. butter	3½ to 3¾ cups powdered sugar

Combine cream cheese and butter until smooth. Add vanilla and enough powdered sugar until mixture is of spreading consistency. Spread on cooled cake and sprinkle a few chopped walnuts on top. Cut into 24 pieces. Yield: 24 servings.

Rice and Black Beans #2

Quick and oh-so-tasty!

1 cup uncooked rice (preferably brown rice)
1 clove garlic
Tablespoon garlic
Thyme
Salt

½ polska kielbasa sausage
1 can (or 2 cups) black beans
½ cup water
1 chicken bullion cube

Cook one cup of rice with one clove of minced garlic, a tablespoon of butter, and sprinkles of thyme and salt.

Slice half of one polska sausage in thin slices, and heat in skillet or microwave. Once heated, add one can drained and rinsed black beans, 1/2 cup water, and one chicken bullion cube. Simmer until consistency you'd like (I like it a little bit "mushy").

Serve beans/meat mixture over rice, with hot chulula sauce, if desired.

Black Bean and Corn Salsa

2 cans black beans (about 4 cups), rinsed and drained
1 can whole corn, drained
2 large tomatoes, chopped
1 avocado chopped
½ small red onion, chopped
2 fresh jalapeños, seeded and finely chopped
1 small can sliced black olives, drained

¼ cup cilantro, finely chopped or pureed* in blender
2 Tbs. olive oil
1 Tbs. red wine vinegar
3-4 Tbs. lemon juice
1 tsp. salt
½ tsp. pepper

Mix olive oil, red wine vinegar, lemon juice, salt and pepper in a small bowl and set aside. Combine all other ingredients and pour liquid mixture over and stir. Chill or serve immediately.
*To puree cilantro: add olive oil, red wine vinegar, lemon juice, salt, pepper, and cilantro to blender. Puree until mixed well. Note: this will make the cilantro really tiny.

Red Pepper and Garbanzo Bean Salad

Vinaigrette:
1 Tbs olive oil
2 Tbs lemon juice
3 Tbs chicken bouillon
1 Tbs Dijon mustard
Pepper and salt as wanted

Salad:
1 medium red bell pepper, sliced
1 cup cooked garbanzo beans
1 ½ cup celery, cut
1 small red or green onion, diced
½ medium cucumber, finely cut

In a small bowl, mix vinaigrette ingredients. In a large bowl, combine salad ingredients. Add the vinaigrette and stir. Cover and refrigerate between 30 minutes and 2 hours.