PULSES LENTILS, CHICKPEAS AND SPLIT PEAS

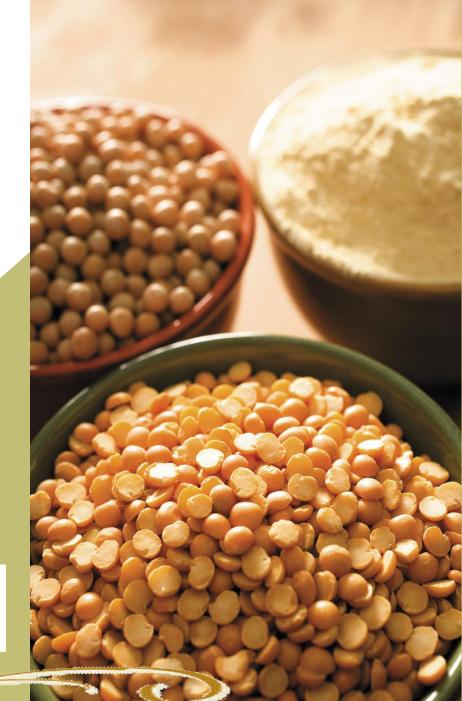
Developed by: **Julie Garden-**Robinson, Ph.D., L.R.D., **Food and Nutrition Specialist**

and Stacy Halvorson, Extension Associate

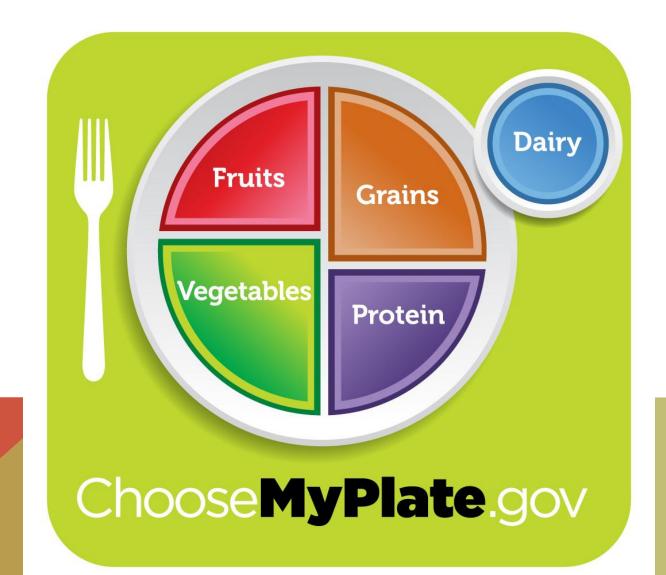




Northern _____ Pulse Growers Association



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Nutrition Standards for School Meals

Through the Healthy, Hunger-Free Kids Act championed by the First Lady and signed by President Obama, USDA is making the first major changes in school meals in 15 years, which will help us raise a healthier generation of children.



The new standards align school meals with the latest nutrition science and the real world circumstances of America's schools. These responsible reforms do what's right for children's health in a way that's achievable in schools across the Nation.

Regulation

- Final Rule: Nutrition Standards in the National School Lunch and School Breakfast Programs (1/26/12)
 - -- Press Release
 - -- School Meals Sample Menu (PDF) (JPG)
 - -- Final Summary of Public Comments on Proposed Rule
- Interim Rule: Certification of Compliance With Meal Requirements for the National School Lunch Program Under the Healthy, Hunger-Free Kids Act of 2010 (4/27/12)
 - -- Press Release: USDA to Provide Additional Funds for Nation's School Meals (4/27/12)
 - --- Child Nutrition Reauthorization 2010: Questions and Answers Related to the Certification of Compliance with Meal Requirements for the National School Lunch Program (4/27/12)
 - -- Presentation: Certification of Compliance with New Meal Pattern Requirements (PDF)
 - -- Performance Based Certification: Prototype Performance Work Statement, Performance



Offer ¾ cup of vegetables to grades K-8 and 1 cup of vegetables to grades 9-12

FIABLE

MUST OFFER VEGETABLES FROM THESE GROUPS WEEKLY

Dark green Starchy

Orange/red Other

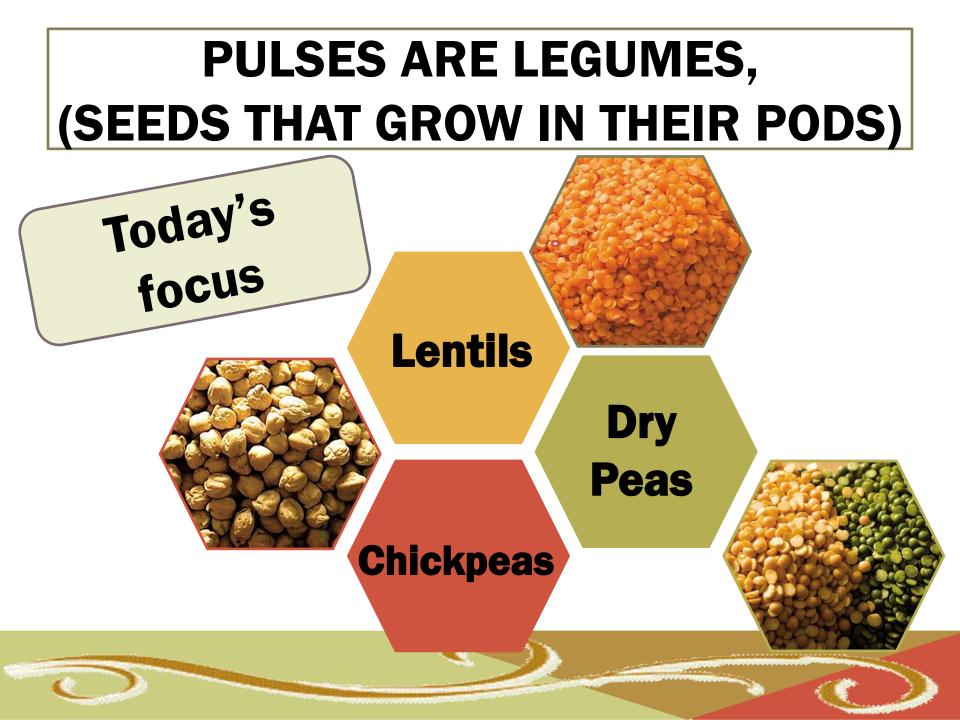
Dry edible beans/lentils



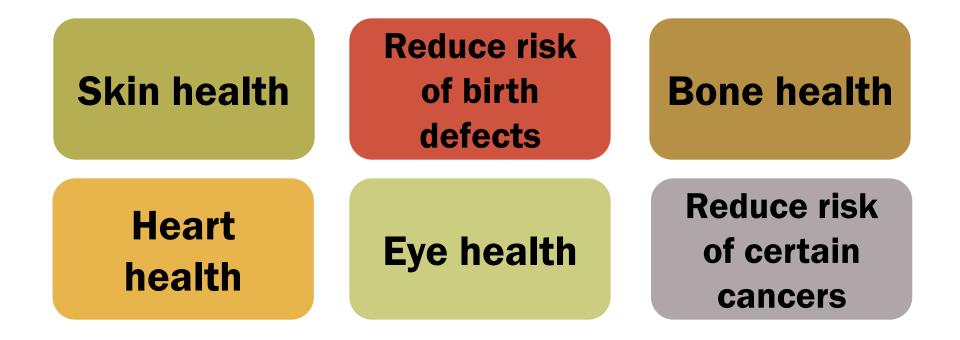


WHICH OF THESE ARE CONSIDERED PULSE CROPS?

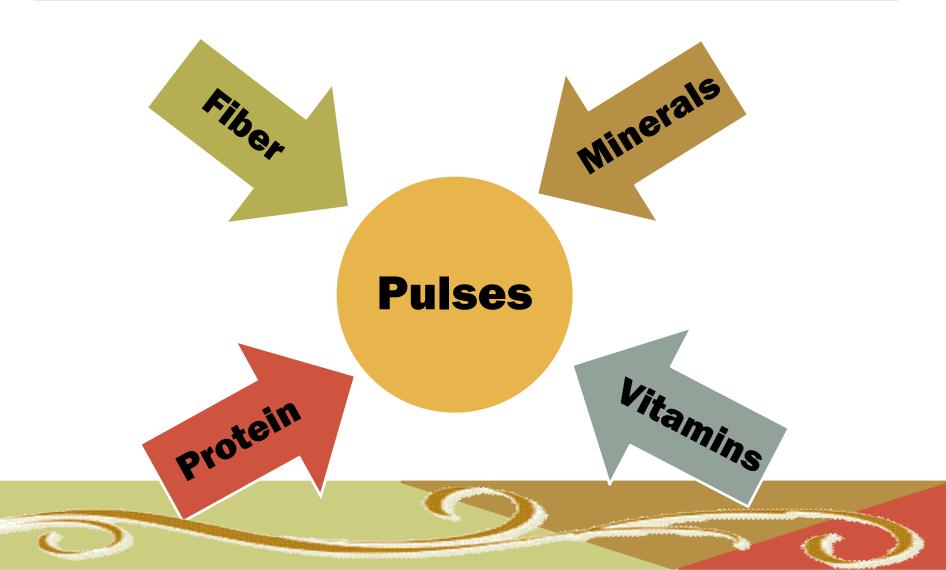




WHAT HEALTH BENEFITS ARE ASSOCIATED WITH PULSE CROPS?

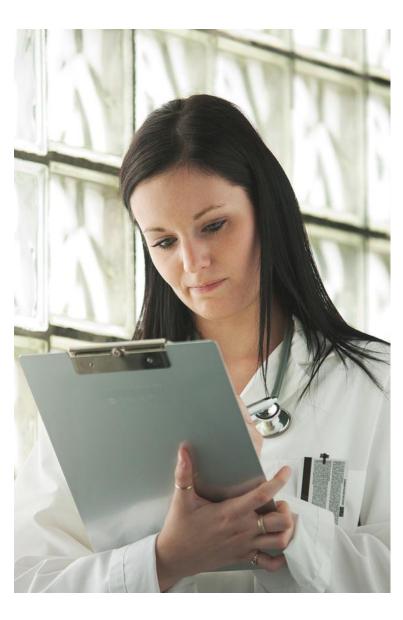


NUTRITIONAL CHARACTERISTICS



Nutrient (unit)	Reference Diet (used on food labels)	Chickpeas/garbanzo beans (per cup, cooked, without added salt)	Lentils (per cup, cooked, without added salt)	Split peas (per cup, cooked, without added salt)
Calories (kcal)	2,000	269	230	231
Total Fat (g)	Less than 65	4.3	0.8	0.8
Saturated Fat (g)	Less than 20	0.4	0.1	0.1
Trans Fat (g)	(No value set; minimize in diet)	0	0	0
Cholesterol (mg)	Less than 300	0	0	0
Sodium (mg)	Less than 2,400	11	4	4
Total Carbohydrate (g)	300	45	39.9	41.3
Fiber (g)	25	12.5	15.6	16.3
Protein (g)	50	14.5	17.9	16.4
Vitamin A (IU)	5,000	44	16	14
Vitamin C (mg)	60	2.1	3.0	0.8
Calcium (mg)	1,000	80	38	27
Iron (mg)	18	4.7	6.6	2.5
Folate (mcg)	400	282	358	127

Fiber Recommendations for Adults				
Women < 50 years	25 grams			
Men < 50 years	38 grams			
Women > 50 years	21 grams			
Men > 50 years	30 grams			



Fiber Recommendations for Kids

4 to 8 year olds boys and girls	25 grams
9- to 13-year- old girls (boys)	26 grams (31 grams)
14- to 18-year- old girls (boys)	26 grams (38 grams)



MYPYRAMID RECOMMENDATIONS

Vegetable Group

1 cup whole or mashed peas or lentils = 1 cup of vegetables

Meat and Beans Group

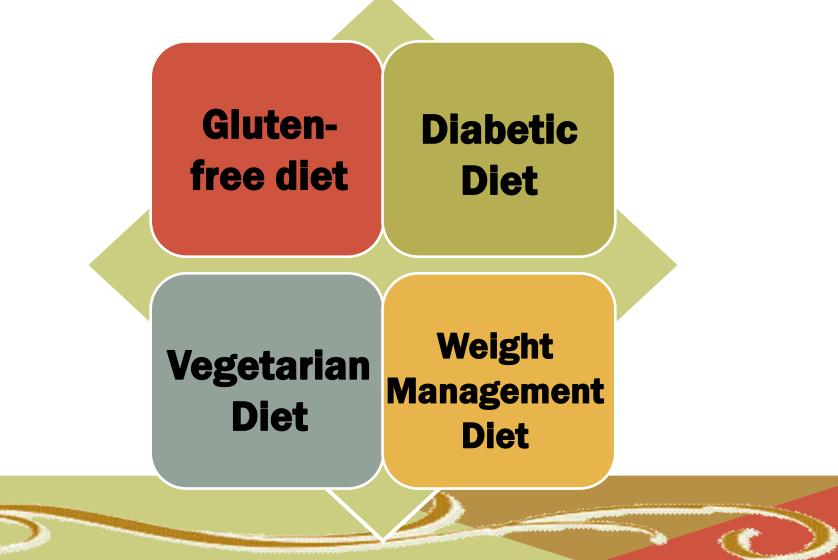
¹/₄ cup of cooked chickpeas, lentils or peas = 1 ounce equivalent

MYPYRAMID RECOMMENDATIONS

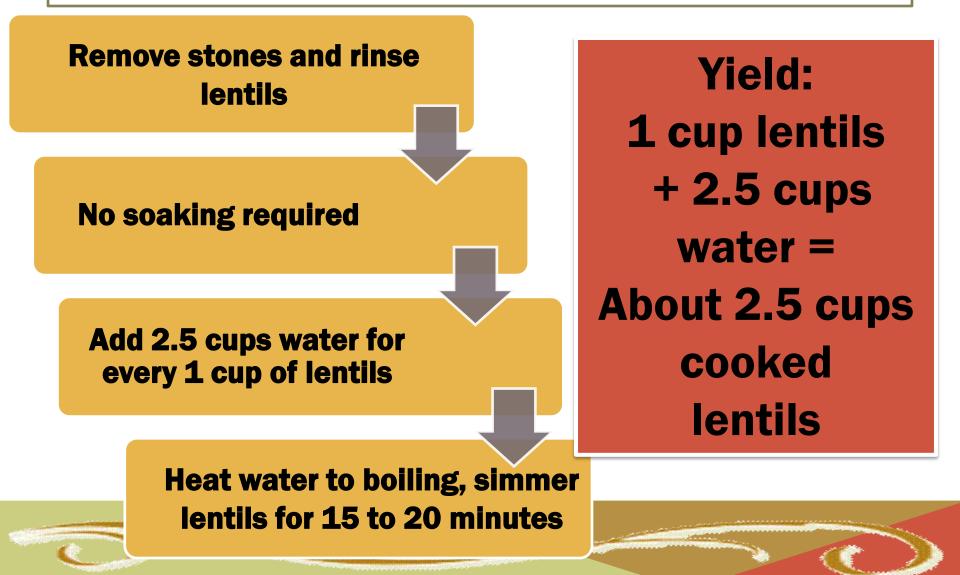


2.5 cups to 3.5 cups of beans, peas or lentils per week

ROLE IN SPECIAL DIETS



PREPARING LENTILS



PREPARING CHICKPEAS

Remove stones and rinse chickpeas

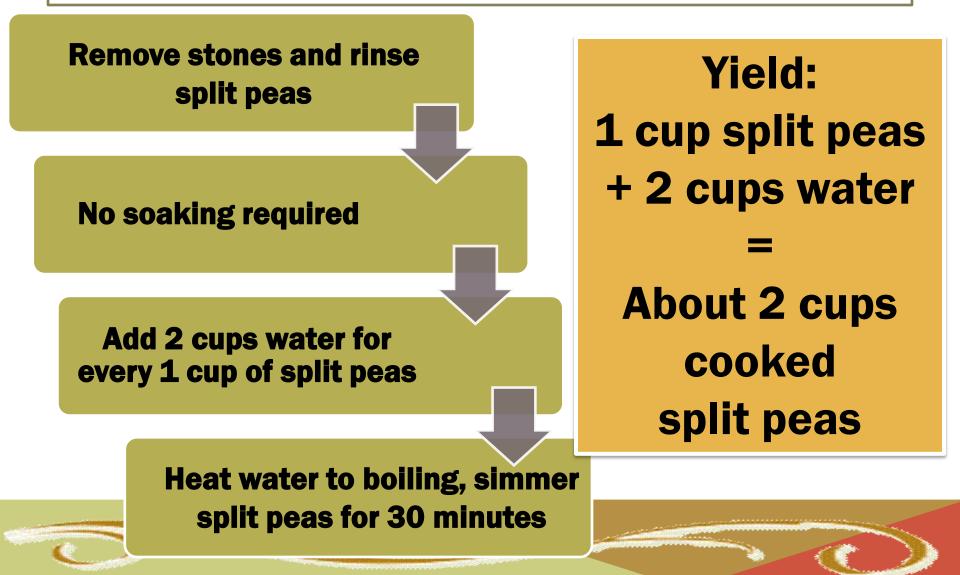
Must soak using one of the following methods: slow soak, hot soak, or quick soak

Add 2 cups water for every 1 cup of chickpeas

Yield: **1 cup chickpeas** + 2 cups water About 2 cups cooked chickpeas

Simmer for 1.5 to 2 hours

PREPARING SPLIT PEAS



ON THE MENU



Creamy Mashed Potatoes

Replace part of the potato flakes with roasted yellow pea flour.



Tacos, Spaghetti Sauce with Added Lentils





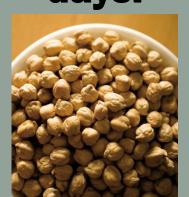
STORING PULSES

Uncooked

Store dry, uncooked pulses in a sealed container in a cool, dry place.

Cooked

Refrigerate leftovers at 40 degrees F and use within three days.



TOP 10 REASONS TO USE PULSES

Excellent source of fiber	Good source of protein	Low fat	Low sodium
Good source of iron	Excellent source of folate	Good source of potassium	Low glycemic index
	Gluten-free	Cholesterol- free	

ADDITIONAL INFORMATION

NDSU Extension Service <u>http://www.ag.ndsu.edu/ndsuag/food-nutrition</u>

Northern Pulse Growers Association <u>www.northernpulse.com</u>

MyPyramid Website <u>www.mypyramid.gov</u>



NDSU Extension Service North Dakota State University