

Ingredient	Molasses	Cracks	Oil	Salt
American Corn	12.9%			70.9%
Argentine Corn	10.9%			
Canada Peas	9.2%			
Maple Peas	11.0%			
Vetch	13.7%			
Barley	0.6%			
Kaffir Corn				
Wheat				
Canary Seed				

Ingredient	Parts	Ingredient	Parts	Ingredient	Parts
Maple or Green Peas	5 Parts	Grains	20 Parts	Molasses	2 Parts
Wheat	10 Parts	Safflower	5 Parts	Rape	1 Part
Popcorn	10 Parts	Canary Seed	2 Parts	Vetch	1 Part
Milo	10 Parts	Linseed	1 Part		
Barley	20 Parts	Linseed	1 Part		

Ingredient	Parts	Grains	Parts	Molasses	Parts
Maple or Green Peas	1 Part	Safflower	10 Parts	Rape	1 Part
Canary Seed	2 Parts	Vetch	1 Part		
Linseed	1 Part				
Canary Seed	2 Parts				

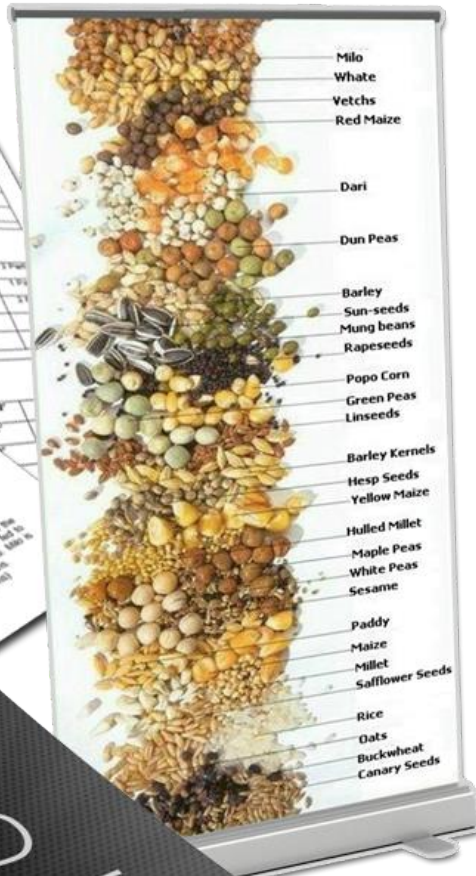
**Peas**  
Peas are the most important ingredient in any ration. They are high in protein and contain a large amount of water. They are also high in fiber and are easy to digest. They are available in many varieties, including American, Argentine, Canadian, and Maple Peas. They are usually sold in 50 lb bags.

**Corn**  
Corn is a very important grain that is high in carbohydrates but low in protein. It is usually sold in 50 lb bags. There are many varieties of corn, including American, Argentine, Canadian, and Kaffir Corn. They are usually sold in 50 lb bags.

**Pop Corn**  
Popcorn is a variety of soft corn with white, inflated hulls that pop when heated. It is high in carbohydrates and low in protein. It is usually sold in 50 lb bags.

**Oat Groats**  
Oat groats are the portion of the oat grain minus the hull. They are highly digestible and are used as a low protein feed. They are available in many varieties, including Canadian, American, and European. They are usually sold in 50 lb bags.

**Milo**  
Milo is a popular crop grown mostly in the hot western area of the United States. A large percentage of the milo crop is fed to cattle and hogs. The product is high in carbohydrates, low in protein, and is easy to digest. It is usually sold in 50 lb bags.



## **FEEDING AND NUTRITION: FUEL FOR RACING PIGEONS.**

### **Summary**

Feeding is just as important if not even more important to racing pigeons than training, breeding or even your own loft management skills in getting your birds flying at their peak levels.

### **The Basics**

The basic nutritional requirements of the pigeon are for protein, energy (best sources are fats & carbohydrates), minerals and vitamins.

Each of these nutrients is found, but in varying amounts, in all of the grains used in pigeon diets. The general rules of thumb are that pigeons have a higher protein requirement during the breeding season; they have a higher energy requirement during periods of work, such as heavy training or racing.

### **Breeding**

As your breeding pairs have been mated and the hatching of eggs approaches, you should have your birds on a **high nutritional plane**.



#### ***Peas***

There are several thousand different species of peas grown throughout the world. The garden pea and field pea (canada, maple, austrian, vetch) are grown for their seeds. Field peas will test approximately 22-23 percent crude protein. Peas are used as protein sources. (Vetch Pea Pictured) Protein: 5g / Fat: 0.4g / Carbs: 14g (Per 100 Grams)



#### ***Corn***

Dent corn is very popular grain that is high in carbohydrate but low in protein. Over half of the corn grown in the United States is used in livestock rations. Protein: 9g / Fat: 4.7g / Carbs: 74g (Per 100 Grams)



#### ***Pop Corn***

Popcorn is a variety of flint corn with similar nutritional characteristics as dent corn. Popcorn has no dent since the horny starch covers the top portion of the kernel. One of the uses of popcorn in the United States is as a snack. The expansion of the water in the kernel causes the grain to explode when heated.

Protein: 11g / Fat: 4g / Carbs: 74g (Per 100 Grams)



### **Oat Groats**

Oat groats are the portion of the oat grain, minus the hull. This highly digestible product is used in a few pigeon mixes. Oat groats contain more protein than corn, but are lower in carbohydrate. Oats are grown in many countries, mostly in cooler areas.

Protein: 17g / Fat: 7g / Carbs: 66g (Per 100 Grams)



### **Milo**

A popular crop grown mostly in the mid western area of the United States. A large percentage of the milo crop is fed to cattle and hogs. The product is high in carbohydrate. Milo is more drought resistant than many other cereal grains. Protein: 11g / Fat: 3g / Carbs: 75g (Per 100 Grams)



### **Buckwheat**

Buckwheat does not belong to the regular wheat family. The flour is used in animal and human nutrition.

Protein: 11.73g / Fat: 2.71g / Carbs: 74.95g (Per 100 Grams)



### **Wheat**

Wheat is a grass that is grown throughout the world. There are several types of wheat. Some wheats are planted in the spring for fall harvest, some are planted in the fall for spring harvest. Winter wheats are mostly the white variety, while many spring wheats are red. Hard wheats are used for breads while soft wheats are used to make pastries. Many wheat by-products

are used for livestock feeds.

Protein: 14g / Fat: 2.5g / Carbs: 71g (Per 100 Grams)



### **Barley**

Barley is the fourth largest crop grown in the world. Most areas plant barley in the spring and harvest in the summer, although some farmers plant in the fall as a winter annual. The grain is

used to make beer, in livestock feeds, and in cooking. Barley, like other cereal grains, is high in carbohydrate.

Protein: 9.91g / Fat: 1.16g / Carbs: 77.72g (Per 100 Grams)



### ***Millet***

Common millet (proso) is grown in many countries for human and bird food consumption. This grass family plant is relatively drought resistant and will produce in less than good soils. Millet has a very short growing season (less than 80 days), so this crop may be grown in areas where other grains would not do well.

Protein: 11.02g / Fat: 4.22g / Carbs: 72.85g (Per 100 Grams)



### ***Flax***

A seed high in oil and protein. Flax is usually pressed to capture the flax oil (also called linseed oil). The remaining byproduct is called linseed meal, used in livestock feed. Protein: 18.29g / Fat: 42.16g / Carbs: 28.88g (Per 100 Grams)



### ***Safflower***

Safflower is a high fat content seed that is also used for pressing to make oil. The seed is high in protein and fat, also has a bitter taste.

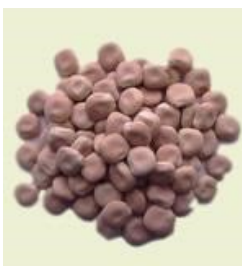
Protein: 16g / Fat: 38g / Carbs: 34g (Per 100 Grams)



### ***Canary Seed***

Canary is a grass plant that is grown in cooler areas of North America and Europe. The majority of canary seed grown is used in caged bird food formulas.

Protein: 13g / Fat: 5.2g / Carbs: 55.8g (Per 100 Grams)



### ***Lupins***

Lupins are mostly utilized by stock feed manufacturers in compound feed rations. Ruminants are the biggest users followed by pigs and poultry. There is virtually no starch in any of the lupin species. This is in marked contrast to crops such as

field peas and chickpeas, which can have 50-70% of the cotyledon weight as starch and have low protein and oil content, and the soybean with 15-20% oil and high protein content. Their crude protein content ranges from about 28 to 42 %. Proximate analyses for whole grain of the major domesticated species

Protein: 16g / Fat: 3g / Carbs: 10g (Per 100 Grams)



### ***Rape***

Rapeseed is the seed of the rape or rapeseed plant, a member of the mustard family. Unfortunate associations with the name of this plant aside, rapeseed is actually a major crop in many nations of the world, with the seeds being one of the principal components of the crop, although some cultures also eat the stalks, leaves, and flowers of rapeseed. For those who find the common name “rape” a bit off-putting, this plant is also known as oilseed, rapa, rapaseed, or Brassica napus, more formally. Protein: 4.1g / Fat: 0.4g / Carbs: 6g (Per 100 Grams)

## Ingredient Chart

<b><u>Ingredient</u></b>	<b><u>Moisture</u></b>	<b><u>Protein</u></b>	<b><u>Fat</u></b>	<b><u>Carb</u></b>
<b>American Corn</b>	12.9%	9.3%	4.3%	70.3%
<b>Argentine Corn</b>	10.5%	10.3%	4.7%	71.0%
<b>Canada Peas</b>	9.2%	25.2%	1.1%	57.8%
<b>Maple Peas</b>	11.0%	21.9%	0.9%	58.2%
<b>Vetch</b>	13.7%	25.4%	1.5%	50.7%
<b>Barley</b>	9.6%	12.8%	2.3%	66.9%
<b>Kaffir Corn</b>	9.4%	11.1%	3.2%	72.6%
<b>Wheat</b>	10.6%	12.3%	1.8%	71.1%
<b>Canary Seed</b>	7.0%	17.2%	5.5%	59.1%
<b>Flax</b>	9.2%	22.6%	33.7%	23.2%
<b>Hemp</b>	8.0%	10.0%	21.0%	45.0%
<b>Millet</b>	9.1%	11.8%	3.3%	64.7%
<b>Oats</b>	8.4%	16.0%	6.8%	65.5%
<b>Milo</b>	11.0%	11.0%	3.3%	70.3%
<b>Buckwheat</b>	10.0%	11.0%	2.4%	73.3%
<b>Lupins</b>	9.0%	37.5%	8.5%	45.0%

## Feed Recipes

### ***Standard Mix***

<b>Maple or Dunn Peas</b>	20 Parts	<b>Hard Wheat</b>	20 Parts
<b>Corn (maize)</b>	10 Parts	<b>Milo</b>	20 Parts
<b>Barley</b>	10 Parts	<b>Safflower</b>	5 Parts
<b>Millet*</b>	3 Parts	<b>Linseed*</b>	2 Parts
*Optional			

### ***Young Bird Mix***

<b>Maple or Dunn Peas</b>	20 Parts	<b>Groats</b>	6 Parts	<b>Millet*</b>	2 Parts
<b>Hard Wheat</b>	15 Parts	<b>Safflower</b>	5 Parts	<b>Rape*</b>	2 Parts
<b>Corn (maize)</b>	15 Parts	<b>Canary Seed*</b>	2 Parts	<b>Vetch*</b>	2 parts
<b>Milo</b>	15 Parts	<b>Linseed*</b>	2 Parts		
<b>Barley</b>	10 Parts	<b>Lupin*</b>	2 Parts		
*Optional					

### ***Moulting Mix***

<b>Maple or Dunn Peas</b>	16 Parts	<b>Groats</b>	2 Parts	<b>Millet*</b>	1 Part
<b>Hard Wheat</b>	15 Parts	<b>Safflower</b>	5 Parts	<b>Rape*</b>	1 Part
<b>Popcorn</b>	35 Parts	<b>Vetch*</b>	3 Parts		
<b>Milo</b>	5 Parts	<b>Linseed*</b>	2 Parts		
<b>Barley</b>	10 Parts	<b>Lupin*</b>	2 Parts		

\*Optional

### ***Sprint Mix***

<b>Maple or Dunn Peas</b>	5 Parts	<b>Groats</b>	20 Parts	<b>Millet*</b>	2 Parts
<b>Hard Wheat</b>	15 Parts	<b>Safflower</b>	5 Parts	<b>Rape*</b>	1 Parts
<b>Popcorn</b>	15 Parts	<b>Canary Seed*</b>	2 Parts	<b>Vetch*</b>	1 Parts
<b>Milo</b>	10 Parts	<b>Linseed*</b>	1 Parts		
<b>Barley</b>	20 Parts	<b>Lupin*</b>	1 Parts		
*Optional					

### ***Distance Mix***

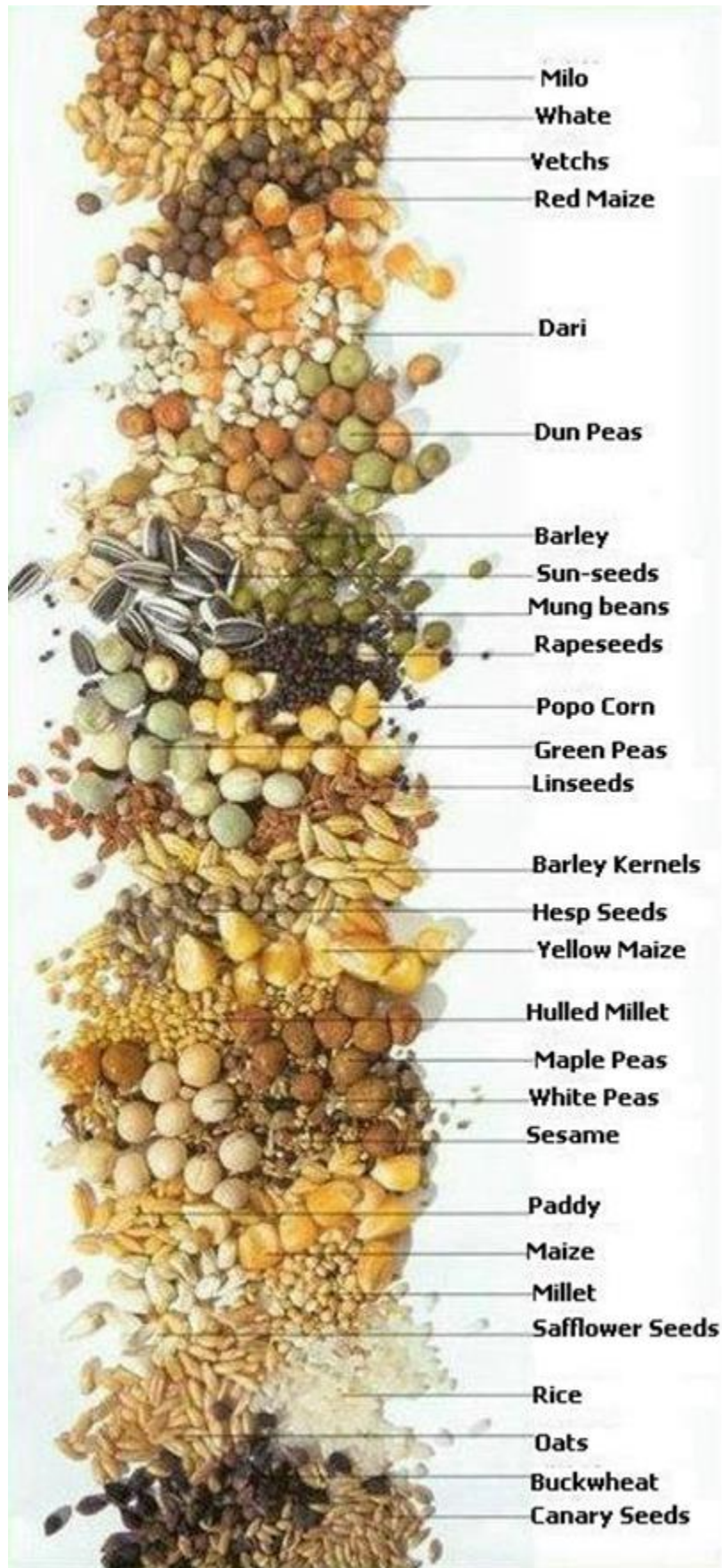
<b>Maple or Dunn Peas</b>	15 Parts	<b>Groats</b>	10 Parts	<b>Millet*</b>	2 Parts
<b>Hard Wheat</b>	15 Parts	<b>Safflower</b>	10 Parts	<b>Rape*</b>	1 Parts
<b>Popcorn</b>	15 Parts	<b>Canary Seed*</b>	2 Parts	<b>Vetch*</b>	2 Parts
<b>Milo</b>	15 Parts	<b>Linseed*</b>	1 Parts		
<b>Barley</b>	7 Parts	<b>Lupin*</b>	2 Parts		
*Optional					

### ***Breeding Mix***

<b>Maple or Dunn Peas</b>	29 Parts	<b>Canary Seed*</b>	2 Parts
<b>Hard Wheat</b>	15 Parts	<b>Linseed*</b>	1 Parts
<b>Popcorn</b>	10 Parts	<b>Lupin*</b>	4 Parts
<b>Milo</b>	5 Parts	<b>Millet*</b>	2 Parts



<b>Groats</b>	5 Parts	<b>Rape*</b>	1 Parts
<b>Safflower</b>	5 Parts	<b>Vetch*</b>	10 Parts
*Optional			



Milo

White

Vetchs

Red Maize

Dari

Dun Peas

Barley

Sun-seeds

Mung beans

Rapeseeds

Popo Corn

Green Peas

Linseeds

Barley Kernels

Hesp Seeds

Yellow Maize

Hulled Millet

Maple Peas

White Peas

Sesame

Paddy

Maize

Millet

Safflower Seeds

Rice

Oats

Buckwheat

Canary Seeds