Commodity Fact Sheet Green (Snap) Beans

Information compiled by the California Foundation for Agriculture in the Classroom

How Produced – Snap beans, also referred to as green beans or string beans, are edible pod beans that can be grown as bush beans or pole (climbing) beans. California farmers primarily plant bush beans.

Snap beans are a warm season crop, with an ideal growing temperature that ranges from 65° to 85°F. The seed is planted as early as March and as late as August, depending on first and last frost. Seed is planted mechanically by a tractor pulling a planter. The beans are typically planted at 80 pounds per acre, depending on seed size, with two rows on each bed.

Most varieties mature in 50 to 70 days. High temperatures (above 90°F) and late season rains can cause blossoms to drop without the opportunity for fruit to

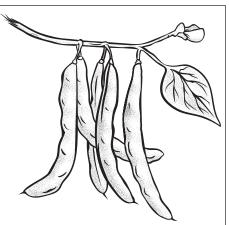
set, greatly reducing yield. Since excess water at any time during growth can increase the plant's susceptibility to root rot infection, many growers use drip irrigation, and some growers still use sprinklers.

Snap bean pods are harvested two to three weeks after blooming. Marketable pods are fleshy, tender, and green for only a short period; they will quickly become tough, fibrous, and overmature if not harvested on time. Pods of desirable length, shape and width are selected, harvested, and graded. Harvesting can be done by hand or by machine. Hand-harvesting allows for multiple harvests of a field, while machine-harvesting is a one-time operation because the plants are destroyed in the process.

Snap beans are highly perishable and should be cooled quickly after harvest. Some growers practice field packing so snap beans are quickly moved from field to cooler with minimum handling. Snap beans destined for further processing are transported to a facility where they are sorted, washed, and trimmed prior to freezing or canning.

History – The common bean was cultivated in ancient Mesoamerica approximately 8,000 years ago. Beans were even found in the mummy covering of a woman in a Peruvian cemetery dating back to pre-Inca civilization. Snap beans originated in the tropical southern part of Mexico, Guatemala, Honduras, and Costa Rica. They spread from this center of origin to North and South America long before European explorers ever arrived.

When early explorers first returned home with these, natives



of Central and South America and Europeans used them not as food crops but as ornamentals. They appreciated the butterfly-like blossoms in shades of red, pink, or white, but

did not appreciate the tough texture of the pod.

Snap beans, by nature, had a fibrous strip that ran down the length of the bean. This portion had to be removed before it could be enjoyed. This led to the nickname "string beans." Botanists, however, found a way to remove the string through breeding and in 1894 the first "stringless" bean plant was cultivated. Today, commercial varieties of edible pod beans are grown without the strings.

Varieties – Snap bean varieties can be flat or round. The flat types, called

Kentucky Wonder, include varieties such as Magnum, Greencrop, and Calgreen. The round types, called Blue Lake, include Jade, Benchmark, Strike, Landmark, and many more. Yellow-podded varieties are Goldrush and Slenderwax. A popular Italian flat bean variety is Romano. Snap beans also come in purple-podded varieties. The purple pods are flavorful, and turn green when cooked.

Commodity Value – California is ranked seventh in the nation for production of fresh market snap beans, while Florida is the top producer. Approximately 95% of the snap bean crop in California is marketed as fresh, with the remainder marketed for processing. In 2020, California's snap bean growers harvested more than 31,000 tons on 5,900 acres throughout the state. The state's crop value reached \$20 million in 2020.

Top Producing Counties – Snap beans are produced in many areas of California. Primary production areas include Tulare County, Riverside County, and Orange County.

Nutritional Value – A 1/2 cup serving of snap beans is a good source of fiber, folate, and beta-carotene. Our bodies use beta-carotene to make vitamin A, a nutrient important for vision, immune function, and skin and bone health. Snap beans also contain small amounts of calcium and vitamin C. Green, yellow, and purple snap beans are similar in taste, texture, and nutrition.

For additional information:

Orange County Produce Website: ocproduce.com



