

Corn Plant Care Information

Latin Name/Genus: Zea mays

Family: Poaceae

Difficulty: Moderately challenging

Season: Warm season

Exposure: Full-sun

Zone: Hardy between zones 3-11

Timing: Direct sow in late spring. If the soil is not warm

enough, seeds often rot before sprouting – especially when not treated with fungicide. Untreated corn seeds should be planted only when the soil has warmed up above 18°C – warmer for super-sweet (sh2) types, and even warmer for a good stand. Use a soil thermometer. If spring weather is cold, consider planting in flats or individual pots, indoors with bottom heat, for transplanting. Seeds should germinate in 7-10 days. If it rains after planting and corn does not emerge, just re-plant the area.

Starting: Do not soak corn seeds prior to planting. Plant 2-5cm (1-2") deep (shallower for sh2 seed or in cool soil). Sow seeds around 7.5cm (3") apart, in rows 60-90cm (24-36") apart. Because corn is wind pollinated, plant in a dense block of at least 4 rows, rather than in single rows. This increases the chance of corn pollen, which emerges from male flowers at the growing tip, to fall down onto the receptive female silks that extend from each corn cob.

Days to Maturity: From direct sowing.

Growing: Ideal pH: 5.8-6.8. Corn is a heavy feeder, so add manure or compost, and use 500g (1 lb) of complete organic fertilizer per 6m (60') of row, mixing it thoroughly into the soil beneath each seed furrow. Thin to at least 20-25cm (8-10") apart in the row. Large eared and double-eared varieties need to be 30cm (24") apart. Keep free of weeds until knee-high, and then leave it alone. Use the days to maturity listed for comparative purposes among the varieties only – every garden may be different.

Nutrient Preferences: Corn appreciates the usual macronutrients (nitrogen, phosphorus and potassium) during its various growth stages, but also benefits from applications of calcium, magnesium, and sulfur.

Harvest: When the silks at the end of an ear are a dry brown, the cob seems to start to droop, and the kernels release milky juice when cut.

Harvesting Popcorn: Leave the ears of popcorn varieties on the plants to dry as long as possible into late summer and early fall. The husks should turn yellow/brown as they dry and the kernels should harden. Once the plants appear to be completely dry, or if wet weather is in the forecast, harvest the ears and bring them indoors. Remove the husks. Store the ears in mesh bags in a warm, dry, airy location. The ideal humidity level for curing popcorn is 13 to 14%. Curing is the process after drying that

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allows for long term storage of popcorn kernels. Once a week, remove a few kernels and try popping them. Popcorn that is chewy or kernels that have jagged edges after popping both mean that the kernels are not dry enough. Continue curing and test-popping until the desired texture is reached. Then remove the kernels and store them in an air-tight container.

Diseases & Pests: Prevent disease and nutritional exhaustion of the soil by using 4-year crop rotation and composting old stalks. In regards to pests, wireworms are often present in home gardens and may burrow into the seeds. Loopers are pale olive-green caterpillars up to 2.5cm (1") long. They chew into the centre of young corn plants and can kill the plant if the growing tip is damaged. Seed corn maggot is a small, legless maggot that attacks germinating seed. Planting in warm soil or using predatory nematodes may help prevent seed-destroying soil creatures.

Companion Planting: Corn is a good companion to beans (including soya), beets, cucumbers, dill, melons, parsley, peas, potatoes, squash, and sunflowers; amaranth makes a great mulch between rows by competing with weeds and conserving ground moisture. Avoid planting next to celery or tomatoes.