

# HOW TO GROW LETTUCE (LACTUCA SATIVA)



*Lettuce is an ideal crop for beginner growers and seed savers alike. Gardeners can choose looseleaf varieties that do not form heads or grow iceberg lettuces that form a head of tightly overlapping leaves.*

**Time of Planting:** Plant in the spring or fall when temperatures are still cool (lettuce bolts in warm temperatures).

**Spacing Requirements:** Direct sow seeds 1/8 inch deep, 1 inch apart. Thin plants to 6-8 inches apart for Looseleaf, and up to 12 inches apart for Crisphead.

**Time to Germination:** 7-14 days

**Special Considerations:** Lettuce can be grown in dense plantings to “cut and come again”, or be grown for their heads, in which case they are grown to maturity and harvested once. When growing lettuce for seed, mature plants should be thinned to 12 to 16 inches in rows 18 to 30 inches apart. When lettuce is flowering, warmer temperatures are ideal, and overhead watering during seed production should be limited to improve seed quality.

**Common Pests and Diseases (and how to manage):** Lettuce is affected by a number of pests and diseases, including aphids, botrytis, and lettuce mosaic virus. Seedlings are also susceptible to damage by blackbirds and sparrows. Remove diseased material from the plants and garden when you notice it, and grow resistant varieties when possible.

**Harvest (when and how):** Cut mature lettuce heads at its base, where the stem meets the head. If you’re growing baby lettuce, you can plant seeds closer together and harvest by cutting about 1 to 2 inches above the soil line, and return in a few weeks to harvest more.

**Eating:** Lettuce is best eaten fresh in salads or on sandwiches.

**Storing:** You can store lettuce in a plastic bag in the refrigerator for up to 6 days.

## HOW TO SAVE LETTUCE SEEDS

*Lettuce is very easy to save seeds from. Simply allow the plant to bolt, flower, and set seeds, and then collect the seeds. A single lettuce plant can produce over a thousand seeds.*

**Life Cycle:** Annual



**Recommended Isolation Distance:** Separate varieties by 10-20 feet.

**Recommended Population Sizes:** To ensure viable seeds, save seeds from at least 1 plant. When maintaining a variety over many generations, save seeds from 5 to 10 plants. If you're saving seeds for genetic preservation of a rare variety, save seeds from 20 plants.

**Assessing Seed Maturity:** Seeds develop on each branch in turn over an extended period of time. When the light gray pappuses emerge from a mature lettuce head - a stage sometimes referred to as feathering - the seeds inside are fully developed and ready to be harvested.

**Harvesting:** The fruits and seeds of lettuce are fused together so tightly that they are almost indiscernible. Although the fruits are indehiscent and do not break open, they should be collected before they are dispersed by the wind. A simple seed-gathering technique, useful if seeds are being collected from just a few plants, is to handpick individual seed heads. Once the pappuses have emerged, but before they have fulfilled their seed dispersal function, a gardener can simply take hold of the pappuses to gather the seeds from each mature head. Each composite flower should produce about 15 to 25 seeds, making this a simple, quick method for gathering enough seeds for home use. More seeds can be collected easily as other heads on the plant mature.

Using another technique, some seed savers bend whole plants or fruiting branches into a bag and gently shake them to dislodge mature seeds. This process is more efficient than hand-picking seeds from separate flowers and can be started when about one-third of the seed heads are mature. It can be repeated every week or two until the desired quantity of seeds has been collected.

**Cleaning and Processing:** Cleaning methods vary depending on how the seeds were collected and how much chaff is present. If seeds were gathered by hand-harvesting or shaking plants, there should be relatively little chaff, and cleaning techniques can focus on separating the seeds from the pappuses. Lightly rubbing the gathered material together between one's hands or against a screen should detach the seeds from their pappuses without damaging the seeds. On a larger scale, entire plants can be threshed by rubbing the seed heads, shaking the plants over a large container, or flailing plants on a tarp. After threshing, seeds can be screened and winnowed.

**Storage and Viability:** When stored under cool, dry conditions, lettuce seeds can be expected to remain viable for six years.