

# Germination chart: time, temperature and seed depth

How deep seeds go into the soil, from which temperature they germinate and how long it takes until they come up.

“Germinates from” is the lowest soil or compost temperature at which the source says seeds germinate or can be sown. German and UK sources give centimetres and °C, US sources inches and °F. We convert and round: inches to 0.5 cm, °F to whole °C, and show both. “—” means our sources give no value for it.

| Plant                            | Sowing depth        | Germinates from | Best at             | Germination time | Sources                                                                                                           |
|----------------------------------|---------------------|-----------------|---------------------|------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Fruiting vegetables · 10</b>  |                     |                 |                     |                  |                                                                                                                   |
| Aubergine (eggplant)             | 0.5 cm (¼ in)       | 21 °C (70 °F)   | —                   | 7–14 days        | Penn State Extension · RHS · Colorado State University Extension, GardenNotes #720                                |
| Cape gooseberry                  | —                   | —               | —                   | —                | —                                                                                                                 |
| Chilli pepper                    | 0.5 cm (¼ in)       | —               | 21 °C (70 °F)       | 10–20 days       | NMSU Guide H-240 · RHS · ProSpecieRara                                                                            |
| Cucumber                         | 3 cm (1¼ in)        | —               | 20–24 °C (68–75 °F) | 5–10 days        | Bayerische Gartenakademie (LWG) · Gartenakademie Rheinland-Pfalz (DLR) · USU Extension                            |
| Melon                            | 1.5 cm (½ in)       | —               | 23–25 °C (73–77 °F) | 3–12 days        | RHS · Sächsische Gartenakademie (LfULG) · Colorado State University Extension, GardenNotes #720                   |
| Pumpkin and winter squash        | 2.5–5 cm (1–2 in)   | —               | 18–21 °C (64–70 °F) | 6–10 days        | USU Extension · RHS · Colorado State University Extension, GardenNotes #720                                       |
| Sweet pepper                     | 1.5 cm (½ in)       | —               | 20–24 °C (68–75 °F) | 10–20 days       | USU Extension · Gartenakademie Rheinland-Pfalz (DLR) · Colorado State University Extension, GardenNotes #720      |
| Sweetcorn                        | 2.5 cm (1 in)       | —               | 18–25 °C (64–77 °F) | 10–16 days       | USU Extension · Gartenakademie Rheinland-Pfalz (DLR)                                                              |
| Tomato                           | 1.5 cm (½ in)       | —               | 20–24 °C (68–75 °F) | 6–14 days        | USU Extension · Gartenakademie Rheinland-Pfalz (DLR) · Colorado State University Extension, GardenNotes #720      |
| Zucchini (courgette)             | 2.5 cm (1 in)       | 18 °C (64 °F)   | 25 °C (77 °F)       | 3–12 days        | RHS · Gartenakademie Rheinland-Pfalz (DLR Rheinlandpfalz) · Colorado State University Extension, GardenNotes #720 |
| <b>Beans and peas · 6</b>        |                     |                 |                     |                  |                                                                                                                   |
| Broad bean (fava bean)           | 5–10 cm (2–4 in)    | 6 °C (43 °F)    | 15–20 °C (59–68 °F) | 8–14 days        | Bundesverband Deutscher Gartenfreunde (BDG) · ProSpecieRara                                                       |
| Bush bean                        | 2–3 cm (¾–1¼ in)    | 10 °C (50 °F)   | —                   | 7–10 days        | Bayerische Gartenakademie (LWG) · Utah State University Extension                                                 |
| Pea                              | 5 cm (2 in)         | 10 °C (50 °F)   | —                   | 7–10 days        | Sächsische Gartenakademie (LfULG) · RHS · USU Extension                                                           |
| Pole bean                        | 5 cm (2 in)         | 16 °C (60 °F)   | —                   | 7–10 days        | RHS · Utah State University Extension                                                                             |
| Runner bean                      | 5 cm (2 in)         | 12 °C (54 °F)   | —                   | 4–7 days         | RHS · Johnny's Selected Seeds                                                                                     |
| Sugar snap and snow pea          | 5 cm (2 in)         | 4 °C (40 °F)    | —                   | 7–10 days        | RHS · University of Maryland Extension · USU Extension                                                            |
| <b>Cabbages and turnips · 12</b> |                     |                 |                     |                  |                                                                                                                   |
| Broccoli                         | 0.5–1.5 cm (¼–½ in) | 4 °C (40 °F)    | 27 °C (80 °F)       | 3–10 days        | USU Extension · Colorado State University Extension, GardenNotes #720                                             |
| Brussels sprouts                 | 0.5–1 cm (¼–½ in)   | 8 °C (46 °F)    | 18–22 °C (64–72 °F) | 6–12 days        | Bundesverband Deutscher Gartenfreunde (BDG) · ProSpecieRara                                                       |
| Cauliflower                      | 1.5 cm (½ in)       | 4 °C (40 °F)    | 27 °C (80 °F)       | 3–10 days        | RHS · Colorado State University Extension, GardenNotes #720                                                       |

| Plant                        | Sowing depth               | Germinates from | Best at             | Germination time | Sources                                                                                                                     |
|------------------------------|----------------------------|-----------------|---------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Chinese cabbage              | 1 cm (½ in)                | –               | –                   | 1–2 weeks        | Bundesverband Deutscher Gartenfreunde (BDG) · RHS                                                                           |
| Kale                         | 1 cm (½ in)                | 3 °C (37 °F)    | 18–22 °C (64–72 °F) | 6–12 days        | RHS · ProSpecieRara                                                                                                         |
| Kohlrabi                     | 0.5–1 cm (¼–½ in)          | 4 °C (40 °F)    | 27 °C (80 °F)       | 3–10 days        | Bundesverband Deutscher Gartenfreunde (BDG) · Colorado State University Extension, GardenNotes #720                         |
| Pak choi                     | 2 cm (¾ in)                | –               | 18–22 °C (64–72 °F) | 6–10 days        | RHS · Bayerische Landesanstalt für Weinbau und Gartenbau (LWG)                                                              |
| Red cabbage                  | 0.5–1.5 cm (¼–½ in)        | 8 °C (46 °F)    | 18–22 °C (64–72 °F) | 6–12 days        | USU Extension · ProSpecieRara                                                                                               |
| Savoy cabbage                | 0.5–1 cm (¼–½ in)          | 8 °C (46 °F)    | 18–22 °C (64–72 °F) | 6–12 days        | Bundesverband Deutscher Gartenfreunde (BDG) · ProSpecieRara                                                                 |
| Swede (rutabaga)             | 1 cm (½ in)                | –               | –                   | –                | Bundesverband Deutscher Gartenfreunde (BDG)                                                                                 |
| Turnip                       | 1 cm (½ in)                | 4 °C (40 °F)    | 16–29 °C (60–85 °F) | 7–10 days        | RHS · Utah State University Extension                                                                                       |
| White cabbage                | 2 cm (¾ in)                | 8 °C (46 °F)    | 18–22 °C (64–72 °F) | 6–12 days        | RHS · ProSpecieRara                                                                                                         |
| Roots and tubers · 10        |                            |                 |                     |                  |                                                                                                                             |
| Beetroot                     | 2–3 cm (¾–1¼ in)           | –               | 15–20 °C (59–68 °F) | 14–21 days       | LWG Veitshöchheim                                                                                                           |
| Black salsify                | 2–3 cm (¾–1¼ in)           | 3 °C (37 °F)    | 15–25 °C (59–77 °F) | 10–12 days       | Bundesverband Deutscher Gartenfreunde (BDG) · ProSpecieRara                                                                 |
| Carrot                       | 2 cm (¾ in)                | 4 °C (40 °F)    | 13–18 °C (55–65 °F) | 14–21 days       | Sächsische Gartenakademie (LfULG) · USU Extension                                                                           |
| Celeriac                     | do not cover (needs light) | 18 °C (64 °F)   | 22–30 °C (72–86 °F) | 2–3 weeks        | Bundesverband Deutscher Gartenfreunde (BDG) · ProSpecieRara · Johnny's Selected Seeds                                       |
| Hamburg parsley              | 1–2 cm (½–¾ in)            | 3 °C (37 °F)    | 18–25 °C (64–77 °F) | 15–25 days       | Bundesverband Deutscher Gartenfreunde (BDG) · ProSpecieRara                                                                 |
| Parsnip                      | 2 cm (¾ in)                | 4 °C (40 °F)    | 13–18 °C (55–65 °F) | 14–21 days       | Bayerische Gartenakademie (LWG) · USU Extension                                                                             |
| Potato                       | –                          | –               | –                   | –                | –                                                                                                                           |
| Radish                       | 1–1.5 cm (½ in)            | 4 °C (40 °F)    | 13–24 °C (55–75 °F) | 5–10 days        | Sächsische Gartenakademie (LfULG) · USU Extension                                                                           |
| Sweet potato                 | –                          | –               | –                   | –                | –                                                                                                                           |
| Winter radish (daikon)       | 1–2 cm (½–¾ in)            | 8 °C (46 °F)    | 18–25 °C (64–77 °F) | 6–12 days        | Bundesverband Deutscher Gartenfreunde (BDG) · ProSpecieRara                                                                 |
| Onions and leeks · 5         |                            |                 |                     |                  |                                                                                                                             |
| Garlic                       | –                          | –               | –                   | –                | –                                                                                                                           |
| Leek                         | 1.5 cm (½ in)              | –               | 20–22 °C (68–72 °F) | 7–12 days        | RHS · Landwirtschaftskammer Nordrhein-Westfalen · Colorado State University Extension, GardenNotes #720                     |
| Onion                        | 2–3 cm (¾–1¼ in)           | 2 °C (35 °F)    | 27 °C (80 °F)       | 2–3 weeks        | Sächsische Gartenakademie (LfULG) · Colorado State University Extension, GardenNotes #720 · Utah State University Extension |
| Shallot                      | 1.5 cm (½ in)              | –               | –                   | 10–14 days       | RHS · USU Extension                                                                                                         |
| Spring onion (scallion)      | 0.5–1.5 cm (¼–½ in)        | 2 °C (35 °F)    | 27 °C (80 °F)       | 7–12 days        | University of Maryland Extension · Colorado State University Extension, GardenNotes #720                                    |
| Salads and leafy greens · 12 |                            |                 |                     |                  |                                                                                                                             |
| Butterhead lettuce           | 1 cm (½ in)                | –               | 18 °C (64 °F)       | 7–14 days        | RHS · Bayerische Gartenakademie (LWG) · ProSpecieRara                                                                       |

| Plant                              | Sowing depth                 | Germinates from | Best at             | Germination time | Sources                                                                                    |
|------------------------------------|------------------------------|-----------------|---------------------|------------------|--------------------------------------------------------------------------------------------|
| <b>Celery</b>                      | do not cover (needs light)   | 18 °C (64 °F)   | 22–30 °C (72–86 °F) | 2–3 weeks        | Bundesverband Deutscher Gartenfreunde (BDG) · ProSpecieRara · Johnny's Selected Seeds      |
| <b>Endive</b>                      | 1 cm (½ in)                  | 15 °C (59 °F)   | 20–22 °C (68–72 °F) | –                | RHS                                                                                        |
| <b>Florence fennel</b>             | 1–2 cm (½–¾ in)              | 10 °C (50 °F)   | –                   | 7–10 days        | Bundesverband Deutscher Gartenfreunde (BDG) · USU Extension                                |
| <b>Garden cress</b>                | do not cover (needs light)   | 5 °C (41 °F)    | 15–20 °C (59–68 °F) | –                | Bundesverband Deutscher Gartenfreunde (BDG) · Bingenheimer Saatgut Blog                    |
| <b>Iceberg lettuce</b>             | 1 cm (½ in)                  | 4 °C (40 °F)    | 13–18 °C (55–65 °F) | 7–10 days        | RHS · USU Extension                                                                        |
| <b>Lamb's lettuce (corn salad)</b> | 1 cm (½ in)                  | 5 °C (41 °F)    | 15–18 °C (59–64 °F) | 8–14 days        | Bundesverband Deutscher Gartenfreunde (BDG) · ProSpecieRara                                |
| <b>Loose-leaf lettuce</b>          | 1–2 cm (½–¾ in)              | 4 °C (40 °F)    | 13–18 °C (55–65 °F) | 7–10 days        | LfULG Sachsen · USU Extension                                                              |
| <b>Radicchio</b>                   | 0.5 cm (¼ in)                | –               | 18–21 °C (65–70 °F) | –                | USU Extension                                                                              |
| <b>Rocket (arugula)</b>            | no deeper than 0.5 cm (¼ in) | –               | –                   | 5–7 days         | Bayerische Gartenakademie (LWG) · Johnny's Selected Seeds                                  |
| <b>Spinach</b>                     | 2.5 cm (1 in)                | 4 °C (40 °F)    | 13–18 °C (55–65 °F) | 7–10 days        | RHS · USU Extension                                                                        |
| <b>Swiss chard</b>                 | 2–3 cm (¾–1¼ in)             | –               | 15–20 °C (59–68 °F) | 10–14 days       | Bayerische Gartenakademie (LWG) · LWG Veitshöchheim                                        |
| <b>Herbs · 15</b>                  |                              |                 |                     |                  |                                                                                            |
| <b>Basil</b>                       | barely cover (needs light)   | 12 °C (54 °F)   | –                   | 14–20 days       | Bayerische Gartenakademie (LWG), Merkblatt 2151                                            |
| <b>Borage</b>                      | 1 cm (½ in)                  | –               | –                   | 7–14 days        | Bingenheimer Saatgut Blog · Johnny's Selected Seeds                                        |
| <b>Chervil</b>                     | barely cover (needs light)   | –               | –                   | 15–20 days       | Bingenheimer Saatgut Blog                                                                  |
| <b>Chives</b>                      | 2 cm (¾ in)                  | –               | 15–18 °C (59–64 °F) | 14 days          | DLR Rheinland-Pfalz (K. Mahler) · Bingenheimer Saatgut Blog                                |
| <b>Coriander (cilantro)</b>        | 1–2 cm (½–¾ in)              | –               | 18–21 °C (64–70 °F) | up to 25 days    | Gartenakademie Rheinland-Pfalz (DLR) · Johnny's Selected Seeds                             |
| <b>Dill</b>                        | 2–3 cm (¾–1¼ in)             | –               | –                   | 2–3 weeks        | DLR Rheinland-Pfalz                                                                        |
| <b>Lavender</b>                    | 0.5 cm (1/8 in)              | –               | 21 °C (70 °F)       | 14–21 days       | Utah State University Extension                                                            |
| <b>Lemon balm</b>                  | 1 cm (½ in)                  | –               | 20–25 °C (68–77 °F) | up to 3 weeks    | Bayerische Landesanstalt für Landwirtschaft (LfL) · RHS                                    |
| <b>Mint</b>                        | do not cover (needs light)   | –               | 20 °C (68 °F)       | 10–14 days       | RHS · Johnny's Selected Seeds                                                              |
| <b>Oregano</b>                     | do not cover (needs light)   | –               | 20 °C (68 °F)       | 7–14 days        | RHS · Johnny's Selected Seeds                                                              |
| <b>Parsley</b>                     | 1 cm (½ in)                  | –               | 18–21 °C (64–70 °F) | 4–5 weeks        | Bingenheimer Saatgut Blog · Johnny's Selected Seeds · Gartenakademie Rheinland-Pfalz (DLR) |
| <b>Rosemary</b>                    | barely cover (needs light)   | –               | 18–21 °C (64–70 °F) | 14–21 days       | Johnny's Selected Seeds                                                                    |
| <b>Sage</b>                        | 0.5 cm (¼ in)                | –               | 18–21 °C (64–70 °F) | 2 weeks          | Johnny's Selected Seeds · RHS                                                              |
| <b>Summer savory</b>               | barely cover (needs light)   | –               | 20 °C (68 °F)       | 7–14 days        | Illinois Extension, Herb Gardening · RHS · Johnny's Selected Seeds                         |
| <b>Thyme</b>                       | do not cover (needs light)   | –               | 15–20 °C (59–68 °F) | 14–21 days       | RHS · Johnny's Selected Seeds                                                              |
| <b>Flowers · 5</b>                 |                              |                 |                     |                  |                                                                                            |
| <b>French marigold (tagetes)</b>   | –                            | –               | 24–27 °C (75–80 °F) | 4–7 days         | Mississippi State University Extension                                                     |
| <b>Nasturtium</b>                  | 1 cm (½ in)                  | –               | 16–18 °C (61–64 °F) | 7–14 days        | Bundesverband Deutscher Gartenfreunde (BDG) · Johnny's Selected Seeds                      |

| Plant                           | Sowing depth                | Germinates from | Best at             | Germination time | Sources                                                                                                    |
|---------------------------------|-----------------------------|-----------------|---------------------|------------------|------------------------------------------------------------------------------------------------------------|
| <b>Pot marigold (calendula)</b> | no deeper than 2 cm (¾ in)  | 16 °C (60 °F)   | –                   | 5–15 days        | Gartenakademie Rheinland-Pfalz (DLR) · Utah State University Extension · UW–Madison Extension Horticulture |
| <b>Sunflower</b>                | 2–3 cm (¾–1¼ in)            | –               | 15–20 °C (59–68 °F) | 10–14 days       | Gartenakademie Rheinland-Pfalz (DLR)                                                                       |
| <b>Sweet alyssum</b>            | barely cover (needs light)  | –               | 18–21 °C (64–70 °F) | 8–10 days        | UW–Madison Extension · Johnny's Selected Seeds                                                             |
| <b>Green manure · 4</b>         |                             |                 |                     |                  |                                                                                                            |
| <b>Buckwheat</b>                | 3–4 cm (1¼–1½ in)           | –               | –                   | 3–5 days         | Sächsische Landesanstalt für Landwirtschaft · SARE, Managing Cover Crops Profitably                        |
| <b>Oilseed radish</b>           | 1–2 cm (½–¾ in)             | 7 °C (45 °F)    | –                   | –                | Sächsische Landesanstalt für Landwirtschaft · SARE                                                         |
| <b>Phacelia</b>                 | 1–2 cm (½–¾ in)             | –               | 13–20 °C (55–68 °F) | 7–14 days        | Sächsische Landesanstalt für Landwirtschaft · Johnny's Selected Seeds                                      |
| <b>White mustard</b>            | no deeper than 3 cm (1¼ in) | 7 °C (45 °F)    | –                   | –                | Sächsische Landesanstalt für Landwirtschaft · SARE                                                         |
| <b>Perennials · 6</b>           |                             |                 |                     |                  |                                                                                                            |
| <b>Asparagus</b>                | 2.5 cm (1 in)               | –               | 13–16 °C (55–61 °F) | –                | RHS                                                                                                        |
| <b>Globe artichoke</b>          | 2 cm (¾ in)                 | –               | 18–22 °C (64–72 °F) | 15–20 days       | RHS · Gartenakademie Rheinland-Pfalz (DLR) · LWG Veitshöchheim                                             |
| <b>Horseradish</b>              | –                           | –               | –                   | –                | –                                                                                                          |
| <b>Jerusalem artichoke</b>      | –                           | –               | –                   | –                | –                                                                                                          |
| <b>Rhubarb</b>                  | 2.5 cm (1 in)               | –               | –                   | –                | RHS                                                                                                        |
| <b>Strawberry</b>               | –                           | –               | –                   | –                | –                                                                                                          |

Sow about two to three times as deep as the seed is wide. (Cornell Garden-Based Learning)

Fine seeds are sown shallow. (Sächsische Gartenakademie (LfULG))

## Sources

The titles are links. Every value with its source is also online: [www.beetfox.com/germination-chart](http://www.beetfox.com/germination-chart)

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- USU Extension: How to Grow Peppers in Your Garden
- NMSU Guide H-240: Growing Chile Peppers in New Mexico Gardens
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- USU Extension: How to Grow Pumpkins in Your Garden
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- RHS: How to grow cauliflowers
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- Bayerische Gartenakademie (LWG): Pastinake (Infoschrift 2157)
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- LWG Veitshöchheim: Flyer „Rote Bete – Die vitaminreiche Zauberknolle“
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- Sächsische Gartenakademie (LfULG): Faltblatt „Zwiebeln“ (2006), Abschnitt Lauchzwiebeln
- RHS Grow your own: Shallots (Steckzwiebeln)
- University of Maryland Extension: Growing Onions in a Home Garden
- RHS: How to grow leeks
- RHS Grow your own: Lettuce
- LfULG Sachsen: Gartensalate – Anbau im Haus- und Kleingarten
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60. Bayerische Landesanstalt für Landwirtschaft (LfL): Kulturanleitung für Zitronenmelisse (2001)
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