

Optimal Fruit & Vegetable Storage

Temperature & Humidity

| Commodity | Temperature (°F) | Rel. humidity (percent) | Approximate storage life | Freezing point (°F) | |
|-----------------------|------------------|----------------------------|-----------------------------|------------------------|--|
| | | Fruits | | | |
| Apples | 30–40 | 90–95 | 1–12 months | 29.3 | |
| Apricots | 31–32 | 90–95 | 1–3 weeks | 30.1 | |
| Berries | | | | | |
| — Blackberries | 31–32 | 90–95 | 2–3 days | 30.5 | |
| — Currants | 31–32 | 90–95 | 1–4 weeks | 30.2 | |
| — Elderberries | 31–32 | 90–95 | 1–2 weeks | _ | |
| — Gooseberries | 31–32 | 90–95 | 3–4 weeks | 30 | |
| — Raspberries | 31–32 | 90–95 | 2–3 days | 30 | |
| — Strawberries | 32 | 90–95 | 3–7 days | 30.6 | |
| — Cherries, sour | 32 | 90–95 | 3–7 days | 29 | |
| Cherries, sweet | 30–31 | 90–95 | 2–3 weeks | 28.8 | |
| Grapes, American | 31–32 | 85 | 2–8 weeks | 29.7 | |
| Nectarines | 31–32 | 90–95 | 2–4 weeks | 30.4 | |
| Peaches | 31–32 | 90–95 | 2–4 weeks | 30.3 | |
| Pears | 29–31 | 90–95 | 2–7 months | 29.2 | |
| Plums and prunes | 31–32 | 90–95 | 2–5 weeks | 30.5 | |
| Quinces | 31–32 | 90 | 2–3 months | 28.4 | |
| Vegetables | | | | | |
| Artichokes, Jerusalem | 31–32 | 90–95 | 4–5 months | 28 | |
| Asparagus | 32–35 | 95–100 | 2–3 weeks | 30.9 | |
| Beans, dry | 40–50 | 40–50 | 6–10 months | _ | |

Optimal Fruit and Vegetable Storage, Temperature & Humidity

Prepared by: Alfred Smith's Farm, Hibbing, MN - AlfredSmithsFarm.com

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|---------------------|------------------|----------------------------|--------------------------|------------------------|
| Beans green or snap | 40–45 | 95 | 7–10 days | 30.7 |
| Beans, lima | 37–41 | 95 | 5–7 days | 31 |
| Beans, sprouts | 32 | 95–100 | 7–9 days | _ |
| Beets, bunched | 32 | 98–100 | 10–14 days | 31.3 |
| Beets, topped | 32 | 98–100 | 4–6 months | 30.3 |
| Broccoli | 32 | 95–100 | 10–14 days | 30.9 |
| Brussels, sprouts | 32 | 95–100 | 3–5 weeks | 30.5 |
| Cabbage, early | 32 | 98–100 | 3–6 weeks | 30.4 |
| Cabbage, late | 32 | 98–100 | 5–6 months | 30.4 |
| Cabbage, Chinese | 32 | 95–100 | 2–3 months | _ |
| Carrots, bunched | 32 | 95–100 | 2 weeks | _ |
| Carrots, mature | 32 | 98–100 | 7–9 months | 29.5 |
| Carrots, immature | 32 | 98–100 | 4–6 weeks | 29.5 |
| Cauliflower | 32 | 95–98 | 3–4 weeks | 30.6 |
| Celeriac | 32 | 97–99 | 6–8 months | 30.3 |
| Celery | 32 | 98–100 | 2–3 months | 31.1 |
| Chard | 32 | 95–100 | 10–14 days | — |
| Chicory, witloof | 32 | 95–100 | 2–4 weeks | — |
| Collards | 32 | 95–100 | 10–14 days | 30.6 |
| Corn, sweet | 32 | 95–98 | 5–8 days | 30.9 |
| Cucumbers | 50–55 | 95 | 10–14 days | 31.1 |
| Eggplant | 46–54 | 90–95 | 1 week | 30.6 |
| Endive and escarole | 32 | 95–100 | 2–3 weeks | 31.9 |
| Garlic | 32 | 65–70 | 6–7 months | 30.5 |
| Greens, leafy | 32 | 95–100 | 10–14 days | |
| Horseradish | 30–32 | 98–100 | 10–12 months | 28.7 |
| Jicama | 55–65 | 65–70 | 1–2 months | |
| Kale | 32 | 95–100 | 2–3 weeks | 31.1 |

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|--------------------------|------------------|----------------------------|--------------------------|------------------------|
| Kohlrabi | 32 | 98–100 | 2–3 months | 30.2 |
| Leeks | 32 | 95–100 | 2–3 months | 30.7 |
| Lettuce | 32 | 98–100 | 2–3 weeks | 31.7 |
| Melons | | | | |
| — Cantaloupe (3/4 slip) | 36–41 | 95 | 15 days | 29.9 |
| — Cantaloupe (full slip) | 32–36 | 95 | 5–14 days | 29.9 |
| — Casaba | 50 | 90–95 | 3 weeks | 30.1 |
| — Crenshaw | 45 | 90–95 | 2 weeks | 30.1 |
| — Honey Dew | 45 | 90–95 | 3 weeks | 30.3 |
| — Persian | 45 | 90–95 | 2 weeks | 30.5 |
| — Watermelon | 50–60 | 90 | 2–3 weeks | 31.3 |
| Mushrooms | 32 | 95 | 3–4 days | 30.4 |
| Okra | 45–50 | 90–95 | 7–10 days | 28.7 |
| Onions, green | 32 | 95–100 | 3–4 weeks | 30.4 |
| Onion, dry | 32 | 65–70 | 1–8 months | 30.6 |
| Onion sets | 32 | 65–70 | 6–8 months | 30.6 |
| Parsley | 32 | 95–100 | 2–2.5 months | 30 |
| Parsnips | 32 | 98–100 | 4–6 months | 30.4 |
| Peas, green | 32 | 95–98 | 1–2 weeks | 30.9 |
| Peas, southern | 40–41 | 95 | 6–8 days | _ |
| Peppers, chili (dry) | 32–50 | 60–70 | 6 months | _ |
| Peppers, sweet | 45–55 | 90–95 | 2–3 weeks | 30.7 |
| Potatoes, early crop | 40 | 90–95 | 4–5 months | 30.9 |
| Potatoes, late crop | 38–40 | 90–95 | 5–10 months | 30.9 |
| Pumpkins | 50–55 | 50–70 | 2–3 months | 30.5 |
| Radishes, spring | 32 | 95–100 | 3–4 weeks | 30.7 |
| Radishes, winter | 32 | 95–100 | 2–4 months | |

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| Rhubarb | 32 | 95–100 | 2–4 weeks | 30.3 |
| Rutabagas | 32 | 98–100 | 4–6 months | 30 |
| Salsify | 32 | 95–98 | 2–4 months | 30 |
| Spinach | 32 | 95–100 | 10–14 days | 31.5 |
| Squashes, summer | 41–50 | 95 | 1–2 weeks | 31.1 |
| Squashes, winter | 50 | 50–70 | 1–6 months | 30.5 |
| Sweet potatoes | 55–60 | 85–90 | 4–7 months | 29.7 |
| Tomatoes mature, green | 55–70 | 90–95 | 1–3 weeks | 31 |
| Tomatoes firm, ripe | 55–70 | 90–95 | 4–7 days | 31.1 |
| Turnips | 32 | 95 | 4–5 months | 30.1 |
| Turnip greens | 32 | 95–100 | 10–14 days | 31.7 |
| Watercress | 32 | 95–100 | 2–3 weeks | 31.4 |

Storage Tips

- **High Humidity** To achieve high humidity conditions in your cooler, without using internal hudmifiers, one can store the produce item in an airtight container. The humidity is provided by the moisture present in the freshly harvested produce item. The tighter the seal, the more effectively the high humidity can be maintained.
- Storage Groups
 - \circ Cold storage (temperatures 32 to 36°F).
 - Cool storage (temperatures 40 to 55°F).
 - Warmer storage (temperatures 55 to 60°F).

References

• Hardenburg, R.E., A.E. Watada and C.Y. Wang. 1986. *The Commercial Storage of Fruits, Vegetables, and Florist and Nursery Stocks*. USDA-ARS Agriculture Handbook Number 66 (revised) 136p.