

CMG GardenNotes #746

Climate Summary: Fort Collins, Greeley, and Estes Park, Colorado

| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | Annual | |
|------------------------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| <u>Monthly Temperatures</u> | | | | | | | | | | | | | | | |
| Estes Park | average extreme high | 53 | 55 | 60 | 69 | 75 | 84 | 88 | 85 | 80 | 72 | 62 | 55 | | |
| | normal daily high | 38 | 41 | 46 | 54 | 62 | 73 | 78 | 77 | 70 | 59 | 45 | 39 | 57 | |
| | normal daily low | 16 | 18 | 22 | 27 | 35 | 41 | 47 | 45 | 38 | 30 | 23 | 16 | 30 | |
| | average extreme low | -12 | -10 | -1 | 5 | 22 | 30 | 38 | 37 | 23 | 12 | -3 | -8 | | |
| Fort Collins | average extreme high | 62 | 65 | 72 | 79 | 85 | 93 | 96 | 94 | 89 | 81 | 70 | 62 | | |
| | normal daily high | 42 | 46 | 53 | 61 | 70 | 80 | 85 | 83 | 75 | 64 | 50 | 43 | 63 | |
| | normal daily low | 15 | 20 | 27 | 34 | 43 | 52 | 57 | 56 | 47 | 36 | 25 | 17 | 36 | |
| | average extreme low | -6 | 0 | 10 | 18 | 32 | 41 | 49 | 48 | 32 | 20 | 7 | -3 | | |
| Greeley | average extreme high | 62 | 65 | 75 | 82 | 88 | 97 | 100 | 97 | 93 | 83 | 71 | 61 | | |
| | normal daily high | 40 | 47 | 55 | 63 | 73 | 83 | 89 | 87 | 78 | 66 | 50 | 42 | 64 | |
| | normal daily low | 14 | 20 | 27 | 35 | 44 | 53 | 58 | 56 | 47 | 35 | 24 | 16 | 36 | |
| | average extreme low | -7 | -1 | 9 | 20 | 32 | 43 | 50 | 49 | 32 | 21 | 6 | -4 | | |

| | | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec | Annual |
|--|---------------|------------|------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| <u>Total Monthly Precipitation</u> (inches) | | | | | | | | | | | | | | |
| Estes Park | normal | 0.3 | 0.5 | 1.0 | 1.3 | 1.9 | 1.5 | 2.3 | 1.9 | 1.2 | 1.0 | 0.7 | 0.4 | 14.3 |
| | maximum | 1.8 | 2.1 | 3.3 | 4.0 | 5.4 | 3.8 | 5.3 | 5.8 | 2.7 | 2.9 | 2.1 | 1.2 | 17.4 |
| Fort Collins | normal | 0.4 | 0.4 | 1.5 | 2.1 | 2.6 | 2.1 | 1.9 | 1.4 | 1.3 | 1.0 | 0.8 | 0.5 | 15.9 |
| | maximum | 1.1 | 1.3 | 5.6 | 8.3 | 7.5 | 5.8 | 6.7 | 5.1 | 4.1 | 2.9 | 2.3 | 1.5 | 25.2 |
| Greeley | normal | 0.5 | 0.4 | 1.2 | 1.8 | 2.5 | 1.9 | 1.5 | 1.2 | 1.2 | 0.9 | 0.8 | 0.5 | 14.4 |
| | maximum | 1.4 | 1.5 | 4.1 | 7.4 | 5.4 | 4.0 | 3.4 | 3.9 | 3.4 | 2.9 | 2.3 | 1.1 | 22.2 |
| <u>Total Monthly Snowfall</u> (inches) | | | | | | | | | | | | | | |
| Estes Park | normal | 1.9 | 5.9 | 7.6 | 3.3 | 0.5 | 0.1 | 0 | 0 | 0.6 | 1.2 | 4.4 | 2.7 | 25.2 |
| | maximum | 12.0 | 30.0 | 31.5 | 14.0 | 6.0 | 3.0 | 0 | 0 | 4.0 | 9.0 | 18.0 | 12.5 | 64.5 |
| Fort Collins | normal | 8.4 | 6.2 | 12.3 | 7.28 | 1.4 | 0.1 | 0 | 0 | 1.2 | 3.9 | 9.9 | 8.4 | 59.1 |
| | maximum | 19.2 | 16.7 | 39.6 | 24.4 | 27.8 | 2.2 | 0 | 1.4 | 15.0 | 17.5 | 29.1 | 20.7 | 107.1 |
| Greeley | normal | 6.2 | 4.2 | 7.5 | 5.9 | 0.8 | 0 | 0 | 0 | 0.9 | 2.5 | 8.0 | 5.4 | 41.9 |
| | maximum | 16.3 | 13.2 | 17.0 | 16.5 | 6.0 | 0.2 | 0 | 0 | 9.0 | 20.2 | 23.5 | 13.8 | 69.9 |

Frost Probability and Growing Season Length Summary*

| | | <u>Spring Frost Probability</u> | | | <u>Fall Frost Probability</u> | | | <u>Length of Growing Season</u> | | |
|--------------|---------------|---------------------------------|--------|---------|-------------------------------|---------|---------|---------------------------------|-----|-----|
| | | 90% | 50% | 10% | 10% | 50% | 90% | 10% | 50% | 90% |
| Estes Park | 32° threshold | May 27 | June 9 | June 21 | Sept 3 | Sept 14 | Sept 25 | 83 | 97 | 111 |
| | 28° threshold | May 5 | May 21 | June 6 | Sept 10 | Sept 21 | Oct 1 | 106 | 123 | 140 |
| | 24° threshold | Apr 18 | May 8 | May 27 | Sept 18 | Oct 4 | Oct 19 | 125 | 149 | 173 |
| Fort Collins | 32° threshold | Apr 23 | May 4 | May 16 | Sept 18 | Oct 2 | Oct 17 | 130 | 151 | 172 |
| | 28° threshold | Apr 5 | Apr 19 | May 2 | Sept 25 | Oct 11 | Oct 26 | 155 | 175 | 196 |
| | 24° threshold | Mar 26 | Apr 7 | Apr 20 | Oct 3 | Oct 20 | Nov 6 | 174 | 196 | 218 |
| Greeley | 32° threshold | Apr 21 | May 2 | May 12 | Sept 17 | Oct 1 | Oct 14 | 134 | 152 | 170 |
| | 28° threshold | Apr 4 | Apr 18 | May 2 | Sept 26 | Oct 11 | Oct 25 | 155 | 175 | 196 |
| | 24° threshold | Mar 25 | Apr 7 | Apr 20 | Oct 6 | Oct 22 | Nov 6 | 175 | 198 | 220 |

| Site Information | Station | Number | Elevation | Latitude | Longitude |
|------------------|--------------|--------|-----------|----------|-----------|
| | Estes Park | 52759 | 7750 | 40° 23' | 105° 31' |
| | Fort Collins | 51179 | 5200 | 39° 42' | 104° 13' |
| | Greeley | 53553 | 4650 | 40° 25' | 104° 42' |

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 Source: Colorado Climate Center at www.wrcc.dri.edu/summary/climsmco.html

- o CMG GardenNotes are available online at www.cmg.colostate.edu.
- o Colorado Master Gardener training is made possible, in part, by a grant from the Colorado Garden Show, Inc.
- o Colorado State University, U.S. Department of Agriculture and Colorado counties cooperating.
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Typical planting and harvest period based on average frost dates and normal temperatures

| Estes Park | | | | | | | | | | | | | | | | | | | | |
|-------------------|------------|-----------|---------|--|----------------------------|----------|-----------|--|----------|-----------|------------|----------|-----------|-------------|---------------------------|------------|------------|--|--|--|
| Mid April | Late April | Early May | Mid May | Late May | Early June FROST | Mid June | Late June | Early July | Mid July | Late July | Early Aug. | Mid Aug. | Late Aug. | Early Sept. | Mid Sept. FROST | Late Sept. | Early Oct. | | | |
| | | | | 40-45 day, cool season crops (spinach, lettuce) | | | | | | | | | | | | | | | | |
| | | | | 50-60 day, cool season crops (kohlrabi, beets, broccoli, cabbage, carrots, cauliflower, chard) | | | | | | | | | | | | | | | | |
| | | | | 65-70 day, cool season crops (peas) | | | | | | | | | | | | | | | | |
| | | | | 75-80 day, cool season crops | | | | | | | | | | | | | | | | |
| | | | | 50-55 day, semi-tender, warm season crops (summer squash) | | | | | | | | | | | | | | | | |
| | | | | 60-65 day, semi-tender, warm season crops (cucumbers) | | | | | | | | | | | | | | | | |
| | | | | 70-75 day, semi-tender, warm season crops (beans, corn) | | | | | | | | | | | | | | | | |
| | | | | 80 day, semi-tender, warm season crops (corn) | | | | | | | | | | | | | | | | |
| | | | | | | | | 70 day, tender, warm season crops (tomatoes, peppers, eggplant) | | | | | | | | | | | | |
| | | | | | | | | 65-75 day, cool season crops (peas) | | | | | | | | | | | | |
| | | | | | | | | 55-60 day, cool season crops (beets, broccoli, cabbage, carrots, cauliflower, chard) | | | | | | | | | | | | |
| | | | | | | | | 40-50 day, cool season crops (spinach, lettuce, kohlrabi) | | | | | | | | | | | | |

Fort Collins

| Mid April | Late April | Early May FROST | Mid May | Late May | Early June | Mid June | Late June | Early July | Mid July | Late July | Early Aug. | Mid Aug. | Late Aug. | Early Sept. | Mid Sept. | Late Sept. | Early Oct. FROST |
|-----------|--|--|--|----------|------------|----------|-----------|------------|--|-----------|---|----------|-----------|-------------|-----------|------------|----------------------------|
| | 40-45 day, cool season crops (spinach, lettuce) | | | | | | | | 65-70 day, cool season crops (peas) | | | | | | | | |
| | 50-55 day, cool season crops (kohlrabi) | | | | | | | | 50-60 day, cool season crops (kohlrabi, beets, broccoli, cabbage, carrots, cauliflower, chard) | | | | | | | | |
| | 60-70 day, cool season crops (beets, broccoli, cabbage, carrots, cauliflower, chard, peas) | | | | | | | | | | 40-45 day, cool season crops (spinach, lettuce) | | | | | | |
| | 75 day cool season crops | | | | | | | | | | | | | | | | |
| | | 50 day, semi-tender, warm season crops (summer squash) | | | | | | | | | | | | | | | |
| | | 55-60 day, semi-tender, warm season crops (cucumbers) | | | | | | | | | | | | | | | |
| | | 65-70 day, semi-tender, warm season crops (beans) | | | | | | | | | | | | | | | |
| | | 75-80 day, semi-tender, warm season crops (corn) | | | | | | | | | | | | | | | |
| | | 85-90 day, semi-tender, warm season crops (corn) | | | | | | | | | | | | | | | |
| | | | 70-75 day, tender, warm season crops (tomatoes, peppers, eggplant) | | | | | | | | | | | | | | |
| | | | 80-85 day, tender, warm season crops (cantaloupe, watermelon) | | | | | | | | | | | | | | |
| | | | 90-95 day, tender, warm season crops (winter squash) | | | | | | | | | | | | | | |

| Greeley | | | | | | | | | | | | | | | | | | |
|--|------------|--|--|----------|------------|----------|-----------|------------|--|---|------------|----------|-----------|-------------|-----------|------------|----------------------------|--|
| Mid April | Late April | Early May FROST | Mid May | Late May | Early June | Mid June | Late June | Early July | Mid July | Late July | Early Aug. | Mid Aug. | Late Aug. | Early Sept. | Mid Sept. | Late Sept. | Early Oct. FROST | |
| 40 day, cool season crops (spinach) | | | | | | | | | 60-70 day, cool season crops (beets, broccoli, cabbage, carrots, cauliflower, chard, peas) | | | | | | | | | |
| 45-50 day, cool season crops (lettuce, kohlrabi) | | | | | | | | | 50-55 day, cool season crops (kohlrabi) | | | | | | | | | |
| 55-60 day, cool season crops (beets, broccoli, cabbage, carrots, cauliflower, chard) | | | | | | | | | | 40-45 day, cool season crops (spinach, lettuce) | | | | | | | | |
| 65-75 day, cool season crops (peas) | | | | | | | | | | | | | | | | | | |
| | | 50-60 day, semi-tender, warm season crops (summer squash, cucumbers) | | | | | | | | | | | | | | | | |
| | | 65-70 day, semi-tender, warm season crops (beans) | | | | | | | | | | | | | | | | |
| | | 75 day, semi-tender, warm season crops (corns) | | | | | | | | | | | | | | | | |
| | | 80 day, semi-tender, warm season crops (corn) | | | | | | | | | | | | | | | | |
| | | 85 day, semi-tender, warm season crops (corns) | | | | | | | | | | | | | | | | |
| | | | 70-75 day, tender, warm season crops (tomatoes, peppers, eggplant) | | | | | | | | | | | | | | | |
| | | | 80 day, tender, warm season crops (cantaloupe, watermelon) | | | | | | | | | | | | | | | |
| | | | 85 day, tender, warm season crops (winter squash) | | | | | | | | | | | | | | | |