

CMG GardenNotes #746

Climate Summary: Fort Collins, Greeley, and Estes Park

		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		

Note: Climate averages/norms are based on a 30 year periods. In this fact sheet the years of 1970 to 1999 were used except for Estes Park (1970 to 1994) due to limited data.

		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 <http://ccc.atmos.colostate.edu>

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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	Mid June	Late June	Early July	Mid July	Late July	Early Aug.	Mid Aug.	Late Aug.	Early Sept.	Mid Sept.	Late Sept.	Early Oct.
				40-45 day, cool season crops (spinach, lettuce)											FROST		
				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)													
				FROST		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	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.		
	40-45 day, cool season crops (spinach, lettuce)								65-70 day, cool season crops (peas)										FROST
	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)																	
		FROST	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	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.		
40 day, cool season crops (spinach)									60-70 day, cool season crops (beets, broccoli, cabbage, carrots, cauliflower, chard, peas)								FROST		
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)																	
		FROST	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)																