

2023 New York Red Clover Yield Trials; Cornell University;
School of Integrative Plant Science, Plant Breeding and Genetics Section

Ithaca, South Central New York

t/a = tons per acre dry matter

USDA Plant Hardiness Zone 5b

[2021 Commercial and Experimental Seeding](#)

[2022 Commercial and Experimental Seeding](#)

[2023 Commercial and Experimental Seeding](#)

Red Clover Cultivar Trial Protocol and Notes:

Trials are seeded with a 6 row seeder and harvested with a Carter Harvester with a 1 meter cutting width head. The trials are planted in randomized complete block designs. All trials are planted with 5 or 6 replicates. Trials are harvested 3 times each year. Check cultivars planted in each trial are Marathon and Cinnamon Plus. At each harvest, one third to one fifth of the plots are sampled for dry matter determination. A digital hanging scale is used to measure plot weights. A portable platform scale is used to weigh the samples taken for dry matter determination. Samples are oven dried for 7 days at 55 degrees C. Trial applications and summaries are found at:

<https://blogs.cornell.edu/varietytrials/forage/>

2023 Notes: Red Clover trials planted in 2021 and 2022 successfully overwintered although there were only 58 out of 151 days with 1 inch or more of snow from November 2022 to March 2023 and snowfall was 22.3 inches below normal. In 2023, April was a warm dry month and was followed by cooler temperatures and low precipitation in May and early June. May 17-18 had a deep freeze that impacted area fruit farms. Starting June 13, Ithaca had 6.6 inches of rain for the remainder of the month, followed by a rainy July (6.5 inches or 2.6 inches above normal precipitation). Forage yields were 3.79 tons per acre over the 2 trials in this report. The red clover trial planted in 2021 will be harvested in 2024 if the trial has a reasonable plant stand. The red clover trials planted in 2022 and 2023 will be harvested in 2024.

Thanks to the harvesting crew: Jesse Chavez, Ryan Crawford, Jamie Crawford, Abby Nonnenberg, Miguel Barrera, Ashton Pihl, Emileen Flores, Thomas Jacquot and CUAES CAF and Musgrave Farm Crews, including Farm managers Gene Sczepanski and Jeff Stayton. Julie Hansen JLH17@cornell.edu.

2023 New York Red Clover Yield Trials

Cornell U. Agricultural Experiment Station, Tompkins Co., Ithaca, NY

Sown May 2021

Released And Experimental Varieties	2023 Harvest (yields reported in tons/acre)			2023 Total t/a	2022 Total t/a	2 Yr. Total t/a	% Stand 10/12/2023	% of Checks Mean	
	20-Jun	1-Aug	29-Sep					2023 Total	2 Yr. Total
	RC08	2.57	1.73					0.49	4.79
Cinnamon Plus	2.57	1.50	0.55	4.61	3.80	8.41	59	102	103
Freedom!MR	2.29	1.71	0.53	4.53	3.86	8.39	57	100	103
CW040040	2.64	1.65	0.54	4.83	3.51	8.34	57	106	102
Raptor	2.33	1.75	0.47	4.55	3.77	8.32	56	100	102
BAR TP10	2.50	1.56	0.41	4.48	3.82	8.30	58	99	102
CW30091	2.49	1.65	0.44	4.59	3.71	8.29	58	101	102
Redkin	2.52	1.69	0.48	4.69	3.60	8.29	61	103	102
DFRC-13	2.64	1.62	0.41	4.65	3.62	8.28	64	103	102
Blaze	2.37	1.65	0.42	4.44	3.73	8.17	60	98	100
TP-12	2.40	1.65	0.45	4.50	3.67	8.17	38	99	100
Evolve	2.46	1.48	0.48	4.43	3.73	8.15	63	98	100
DFRC-16	2.49	1.60	0.42	4.51	3.59	8.10	65	99	99
Marathon	2.42	1.63	0.41	4.46	3.42	7.88	52	98	97
DFRC-12	2.34	1.45	0.44	4.24	3.59	7.82	62	93	96
Barduro	1.60	1.55	0.43	3.58	3.30	6.88	36	79	84
Mean	2.41	1.62	0.46	4.49	3.66	8.15	57	Ck.Mean 4.54	Ck.Mean 8.15
5% LSD	0.34	0.31	0.08	0.47	0.37	0.70	9		
CV (%)	9.8	13.6	12.0	7.4	7.1	6.1	10.9		

Marathon and Cinnamon Plus are the check cultivars for Cornell Red Clover Trials.

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2023 New York Red Clover Yield Trials

Cornell U. Agricultural Experiment Station, Tompkins Co., Ithaca, NY

Planted May 2022.

Released And Experimental Varieties	2023 Harvest (yields reported in tons/acre)			2023 Total t/a	% Stand 10/13/2023	% of Checks Mean 2023 Total
	12-Jun	26-Jul	4-Oct			
Ruby Red	2.39	1.61	0.90	4.90	63	127
20-LARC-1	2.24	1.34	0.87	4.44	65	115
BY-RC31	2.09	1.35	0.83	4.27	66	111
Medallion	1.86	1.32	0.96	4.13	62	107
DFRC 15	2.02	1.26	0.83	4.10	65	107
F 4167	1.92	1.18	0.95	4.06	70	105
Evolve	1.93	1.31	0.79	4.03	66	105
Marathon	1.95	1.15	0.85	3.95	62	103
F 4168	1.90	1.23	0.79	3.92	66	102
F 4166	1.76	1.16	0.95	3.87	65	100
DFRC 13	1.72	1.25	0.86	3.83	73	99
Redkin	1.81	1.18	0.82	3.80	51	99
F 4164	1.87	1.23	0.67	3.78	66	98
Cinnamon Plus	1.73	1.19	0.83	3.75	71	97
DFRC 12	2.00	1.09	0.65	3.74	72	97
F 4172	1.68	1.22	0.81	3.71	59	96
F 4082	1.70	1.05	0.77	3.53	69	92
						Ck. Mean
Mean	1.92	1.24	0.83	3.99	65	3.85
5% LSD	0.48	0.17	0.24	0.64	10	
CV (%)	17.7	9.4	20.1	11.4	11.0	

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Planted May 2023.

Released And Experimental Varieties	Entered By:
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Cinnamon Plus	check	
CW040040	Barenbrug	
CW202	Barenbrug	Trial was not
DFRC 28	WI	harvested in
DFRC 29	WI	seeding year.
DFRC 30	WI	
Evolve	DLF	
FF9615	check	
Freedom!MR	check	
GA-9908	Smith Seed Service	
Marathon	check	
Medallion	DLF	
Redkin	DLF	
SERV-V15	Smith Seed Service	
Starfire II	check	

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