

2021 New York Red Clover Yield Trials; Cornell University;
School of Integrative Plant Science, Plant Breeding and Genetics Section

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Ithaca, South Central New York
USDA Plant Hardiness Zone 5b

[2018 Commercial and Experimental Seeding](#)

[2019 Commercial and Experimental Seeding](#)

[2021 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/>

2021 Notes: The trial planted in 2020 failed and the 2020 trial entries were replanted in the 2021 red clover trial. The trial planted in 2019 was harvested for three harvests in 2021 will be harvested in third production year (2022) if the plot outlines are visible. The trial planted in 2018 was harvested for two harvests after hand weeding the plot area. This trial had low plant stands and very low yields in 2021 in the third production year.

Following the summer of 2020 when it was quite dry and hot, the summer of 2021 was quite wet and hot. From April 2020 to October 2020, the average precipitation per month was 5.4 inches. From April 2020 to October 2020, the average temperature was 2 degrees F over the 30 year normal (1990-2020). June, August and October were all above average for temperature. Some COVID-19 restrictions remained in place for 2021. Thanks to the harvesting crew: Jesse Chavez, Jason Schiller, Ryan Crawford, Jamie Crawford, Johanna Gertin, Christina McMillan, Adrian Driesbaugh, Ileana Katzman, and CUAES CAF and Musgrave Farm Crews, including Farm managers Gene Sczepanski and Paul Stachowski, and SUNY Cobleskill Farm manager Kane Seamon.

2021 New York Red Clover Yield Trials

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

Sown May 2018

Released And Experimental Cultivars	2021 Harvest (yields reported in tons/acre)		2021 Total t/a	2020 Total t/a	2019 Total t/a	3-Yr. Total t/a	% of Checks Mean	
	24-Jun	29-Jul					2021 Total	3-Yr. Total
Freedom!	1.04	0.46	1.57	3.25	5.81	10.85	177	122
Blaze	1.03	0.38	1.50	2.88	5.53	10.20	169	114
Freedom! MR	0.89	0.49	1.43	2.99	5.48	9.87	161	110
Cinnamon Plus	0.75	0.36	1.17	2.55	5.39	9.68	132	108
Marathon	0.43	0.10	0.60	2.06	5.34	8.17	67	91
							Ck. Mean (t/a)	
Mean	0.80	0.31	1.16	2.60	5.45	9.51	0.89	8.93
5% LSD	0.64	0.17	0.49	0.31	0.71	1.02		
CV (%)	19.5	31.7	24.7	9.2	5.6	6.2		

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

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2021 New York Red Clover Yield Trials

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

Sown June 2019

Released And Experimental Cultivars	2021 Harvest (yields reported in tons/acre)			2021 Total t/a	2020 Total t/a	2-Yr. Total t/a	% Stand 10-Nov-21	% of Checks Mean	
	17-Jun	26-Jul	13-Sep					2021 Total	2-Yr. Total
	Freedom!MR	2.30	1.09					0.77	4.15
BAR TP9	2.09	1.01	0.81	3.91	2.90	6.81	66	118	110
Cardinal 2	1.99	1.04	0.75	3.78	3.01	6.78	62	114	109
BAR TP11	1.79	0.95	0.67	3.43	3.10	6.53	60	104	105
Cinnamon Plus	2.00	0.86	0.73	3.58	2.92	6.50	64	108	105
Marathon	1.65	0.71	0.68	3.03	2.86	5.90	54	92	95
GA-9908	1.66	0.53	0.63	2.83	2.89	5.71	48	85	92
								Ck. Mean (t/a)	
Mean	1.82	0.82	0.69	3.33	2.79	6.12	55	3.31	6.20
5% LSD	0.31	0.28	0.10	0.59	0.21	0.67	10		
CV (%)	13.5	26.8	11.9	13.9	6.0	8.7	14.0		

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2021 New York Red Clover Yield Trials

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Planted May 2021, Entries from 2020 replant and 2021.

Released And Experimental Varieties	Source
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BAR TP10	Barenbrug
Barduro	Barenbrug
Blaze	Mountain View Seeds
Cinnamon Plus	check
CW040040	Barenbrug
CW30091	Barenbrug
Evolve	DLF Pickseed
Freedom!MR	Barenbrug
Marathon	check
RC08	Bailey Seed and Grain
Redkin	DLF Pickseed
Robust III	Columbia Seeds/ Blue Moon
TP-12	DLF Pickseed

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