

2020 New York Red Clover Yield Trials; Cornell University;
School of Integrative Plant Science, Plant Breeding and Genetics Section

J. Hansen and D. Viands
JLH17@cornell.edu

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

[2018 Commercial and Experimental Seeding](#)

[2019 Commercial and Experimental Seeding](#)

[2020 Commercial and Experimental Seeding](#)

Red Clover 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. 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/>

2020 Notes: Trials planted in 2018 and 2019 successfully overwintered at Ithaca, NY. The trials planted in 2020 were postponed until late summer due to COVID-19. This summer was quite dry and hot. In June, there was very little rain until June 28 when it rained 1 inch. In July the weather was also hot and dry, with 2 big rain events on July 12th (1.75 inches) and July 24th (1.23 inches). In August, new seedings were planted. The 2020 red clover trial did not establish well and thus will be replanted spring 2021. Yields for 2020 are quite low due to drought conditions for much of the growing season.

Due to COVID-19, Cornell undergraduate students were not allowed to work this summer. Thanks to the harvesting crew: Jesse Chavez, Jason Schiller, Ryan Crawford, Josh Knecht, Julie Hansen.

In 2021, Dr. Don Viands (drv3@cornell.edu) will retire as Forage Breeder at Cornell University and Dr. Virginia Moore (vm377@cornell.edu) will fill this role.

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2020 New York Red Clover Yield Trials

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

Sown May 2018

Released And Experimental Varieties	2020 Harvest (yields reported in tons/acre)			2020 Total t/a	2019 Total t/a	2-Yr. Total	% Stand 16-Sep-20	% of Checks Mean	
	16-Jun	21-Jul	2-Sep					2020 Total	2-Yr. Total
	Freedom!	2.37	0.54					0.34	3.25
Freedom! MR	2.19	0.48	0.32	2.99	5.48	8.47	52	130	110
Blaze	2.13	0.40	0.34	2.88	5.53	8.41	54	125	109
Cinnamon Plus	1.97	0.33	0.25	2.55	5.39	7.95	42	110	103
Marathon	1.55	0.27	0.25	2.06	5.34	7.40	40	89	96
Mean	1.94	0.37	0.30	2.60	5.45	8.05	49	2.31	7.68
5% LSD	0.25	0.05	0.05	0.31	0.71	0.59	9		
CV (%)	10.2	11.5	14.1	9.2	5.6	5.8	14.5		

Check varieties are Marathon and Cinnamon Plus.

Trial Means are for 10 entries.

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2020 New York Red Clover Yield Trials

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

Sown June 2019

Released And Experimental Varieties	2020 Harvest (yields reported in tons/acre)			2020 Total t/a	% Stand 10-Sep-20	% of Checks Mean 2020 Total
	2-Jun	13-Jul	26-Aug			
Freedom!MR	1.79	1.16	0.17	3.13	83	108
BAR TP11	1.79	1.15	0.16	3.10	78	107
Cardinal 2	1.70	1.14	0.16	3.01	82	104
Cinnamon Plus	1.82	0.94	0.15	2.92	84	101
BAR TP9	1.70	1.06	0.15	2.90	82	100
GA-9908	1.74	1.01	0.13	2.89	74	100
Marathon	1.80	0.92	0.14	2.86	82	99
						Ck. Mean
Mean	1.68	0.97	0.14	2.79	74	2.89
5% LSD	0.16	0.14	0.01	0.21	6	
CV (%)	7.7	11.0	7.9	6.0	6.7	

Check varieties are Marathon and Cinnamon Plus.

Trial Means are for 14 entries.

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2020 New York Red Clover Yield Trials

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

Sown August 2020

Seeding failure - will be replanted in 2021.

Released And Experimental Varieties	Company
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BAR TP10	Barenbrug
Barduro	Barenbrug
Cinnamon Plus	check
CW040040	Barenbrug
CW30091	Barenbrug
Freedom!MR	Barenbrug
Marathon	check
Robust III	Columbia Seeds

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