

Cornell Hemp

<http://hemp.cals.cornell.edu>

Evaluation of 27 industrial hemp grain and fiber cultivars across New York State in 2020

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Locations:

We are testing cultivars in small plot trials at two locations on Cornell research farms in the Southern Tier and Finger Lakes.



Ithaca (Snyder) – June 6

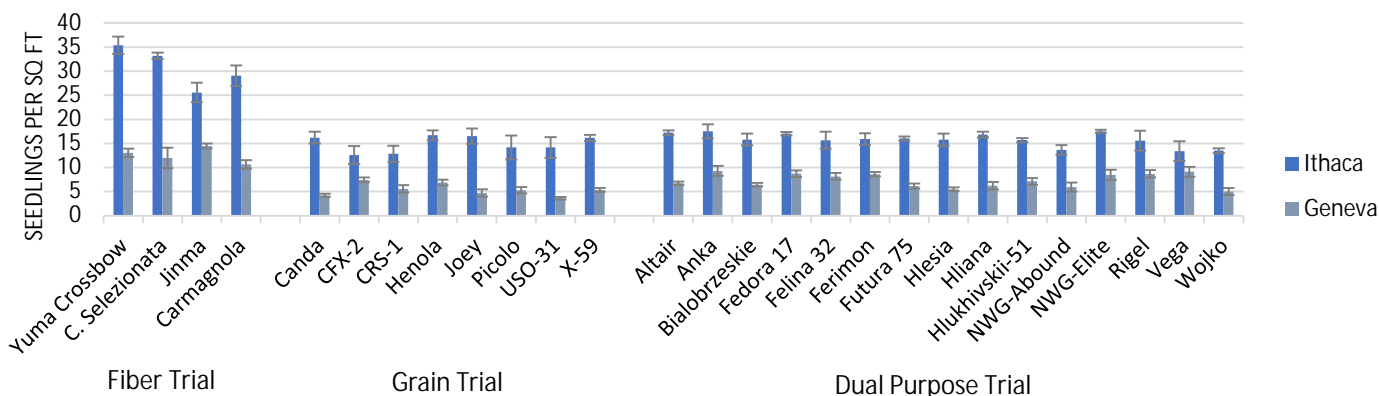
Tile drained silt loam

Geneva (RN) – June 4

Moderately well drained loam

Stand establishment:

Planting was accomplished using a cone seeder at 20 live seed/ft² for grain and dual purpose with a goal of 15 seedlings/ft² and 40 live seed/ft² for fiber cultivars with the goal of 30 seedlings/ft².



Harvest yield and quality assessment:

We will harvest the grain and dual-purpose plots with a small plot combine, weigh dry grain, and then analyze for oil and protein content. Fiber types will be cut with a sickle bar, retted, weighed, and analyzed. Cannabinoids will be quantified from female flowers in each plot.



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Grain cultivars	Source	Purity	Germ	TSW (g)
USO-31	UNISeeds Inc.	0.9983	0.75	15.0
CFX-2	Hemp Genetics International	0.9974	0.79	16.8
Piccolo	Hemp Genetics International	0.9981	0.70	15.9
CRS-1	Hemp Genetics International	0.9941	0.81	18.8
Henola	Bija Hemp	0.9996	0.76	15.0
X-59	Legacy Hemp	0.9975	0.72	21.2
Canda	Parkland Industrial Hemp Growers	0.9979	0.67	20.0
Joey	Parkland Industrial Hemp Growers	0.9965	0.73	18.3
Dual Purpose cultivars	Source	Purity	Germ	TSW (g)
Altair	UNISeeds Inc.	0.9983	0.91	17.9
Anka	UNISeeds Inc.	0.9981	0.90	16.9
Felina 32	UNISeeds Inc.	0.9935	0.75	16.6
Ferimon	UNISeeds Inc.	0.9990	0.83	16.6
Futura 75	UNISeeds Inc.	0.9986	0.78	18.7
Rigel	UNISeeds Inc.	0.9977	0.69	18.5
Vega	UNISeeds Inc.	0.9992	0.95	19.1
Bialobrzeskie	Bija Hemp	0.9974	0.93	12.2
Wojko	Schiavi Seed	0.9935	0.47	15.7
Fedora 17	UniSeeds, Inc.	0.9985	0.93	16.8
NWG-Elite	New West Genetics	0.9969	0.87	13.2
NWG-Abound	New West Genetics	0.9997	0.90	14.2
Hlukhivs'ki 51	Fiacre Seeds	0.9988	0.76	17.3
Hliana*	Fiacre Seeds	0.9986	0.81	16.8
Hlesia*	Fiacre Seeds	0.9978	0.78	18.4
Fiber cultivars	Source	Purity	Germ	TSW (g)
Carmagnola	Schiavi Seed	0.9905	0.80	16.2
Carmagnola Selezionata	Schiavi Seed	0.9963	0.76	20.5
Yuma Crossbow		0.9978	0.81	15.8
Jinma			0.57	15.6