



# Cornell Hemp

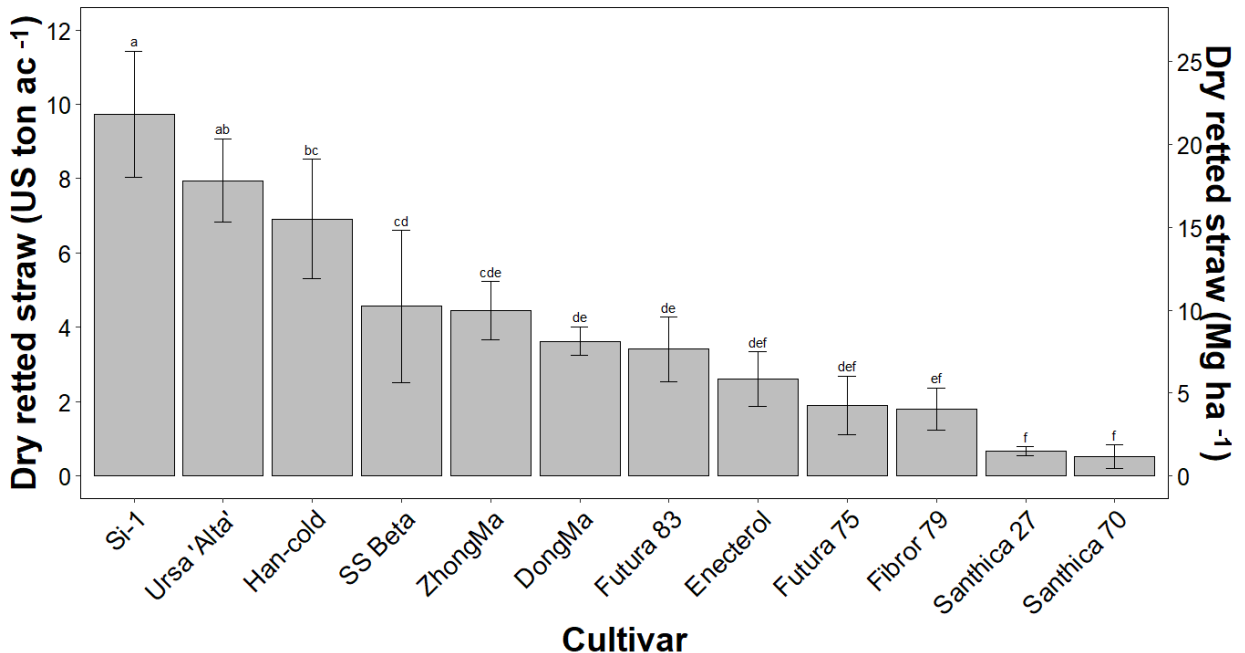
<http://hemp.cals.cornell.edu>

## Cornell Cultivars/Breeding Lines

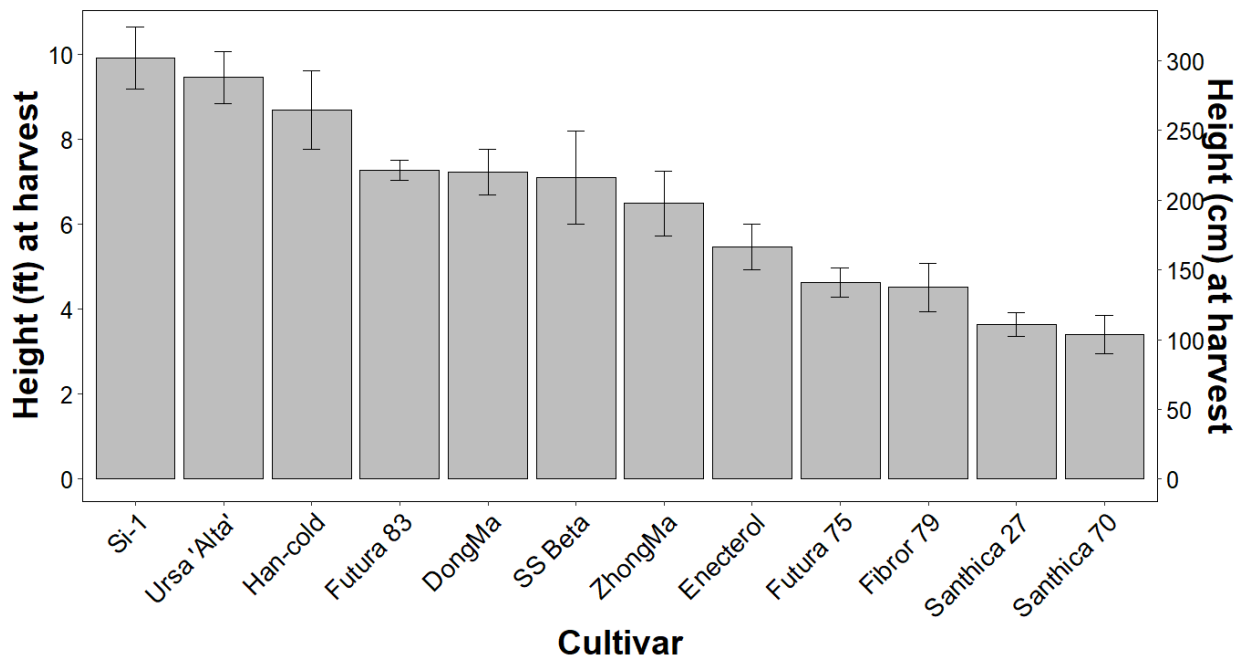
Luis Monserrate, Alexander Wares, Jacob Toth, George Stack, Maylin Murdock, and Larry Smart

### Ursa™ ‘Alta’

- Ursa™ ‘Alta’ is competitive with commercial fiber cultivars in NY.
- Its yield maximizes at northern U.S. latitudes due to short critical day length to trigger flowering.
- It consistently produced an undetectable total THC.

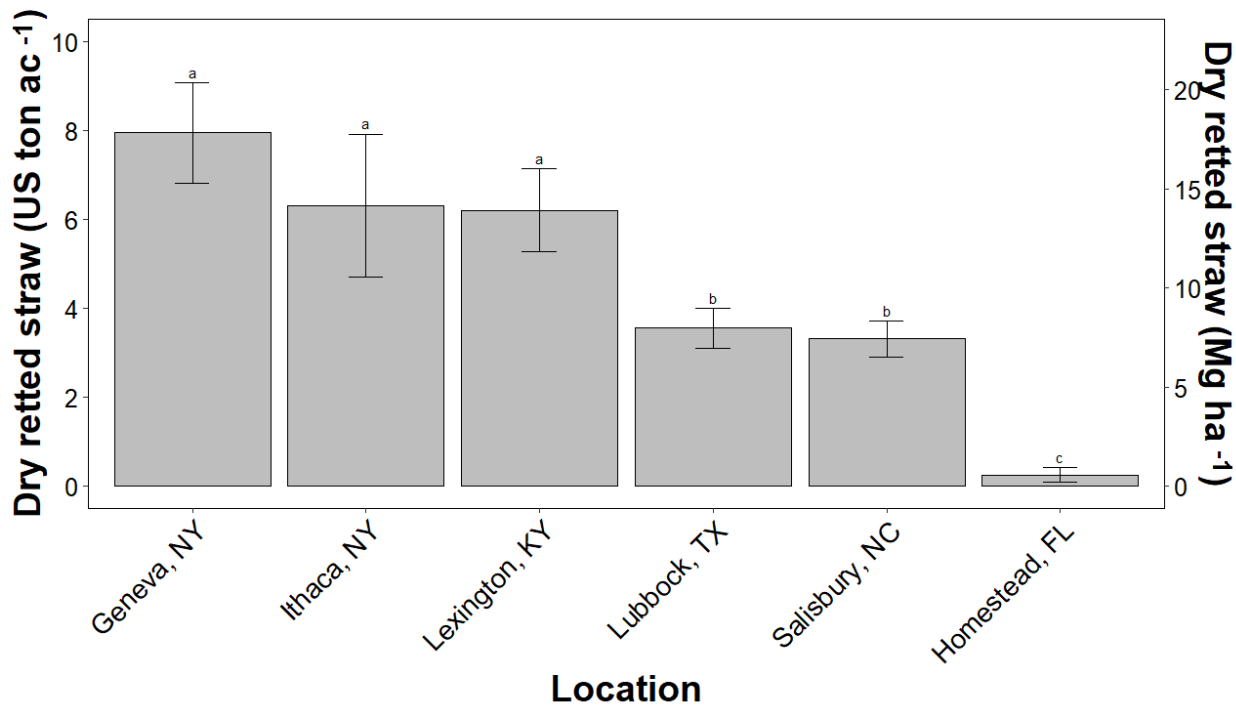


**Figure 1.** Mean dry retted straw yield of 12 fiber hemp cultivars tested in Geneva, NY in 2022.



**Figure 2.** Mean canopy heights of 12 fiber hemp cultivars tested in Geneva, NY in 2022.

## Performance across latitudes

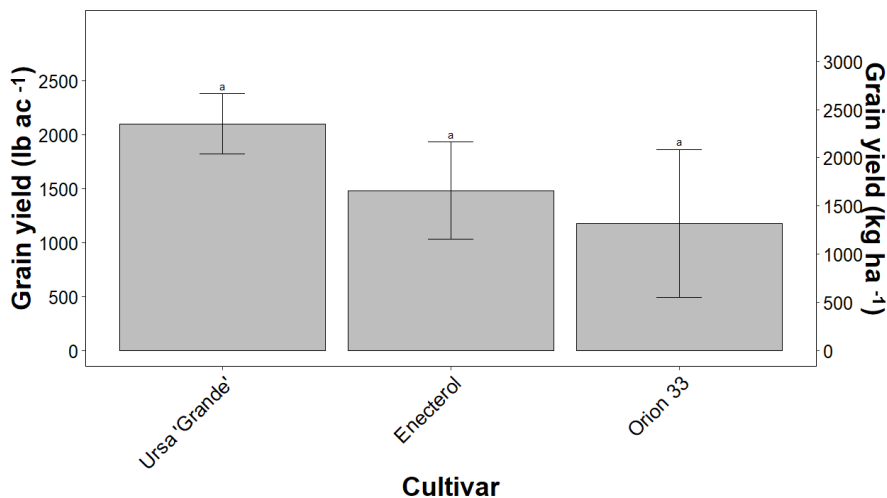


**Figure 3.** Mean dry retted straw yield of Ursa 'Alta' cultivated at different latitudes in 2022.

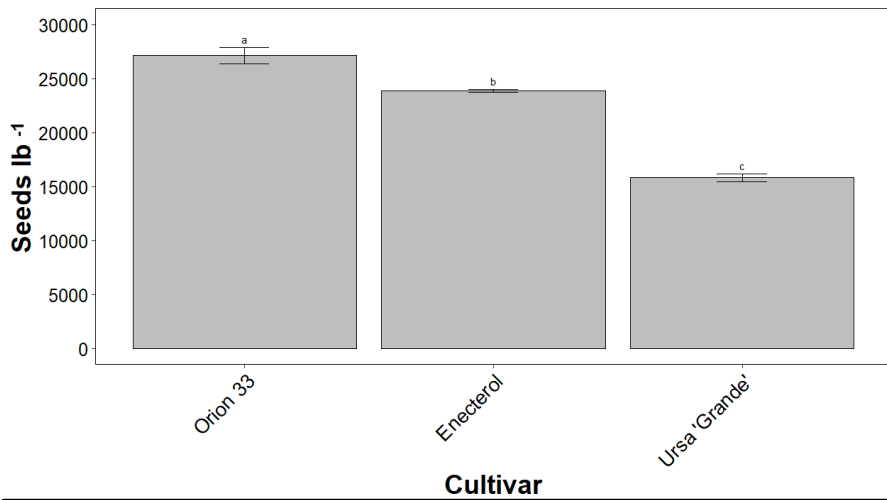


# Ursa™ ‘Grande’

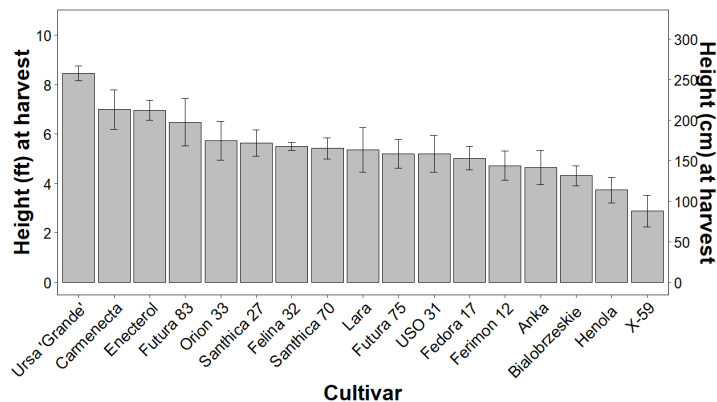
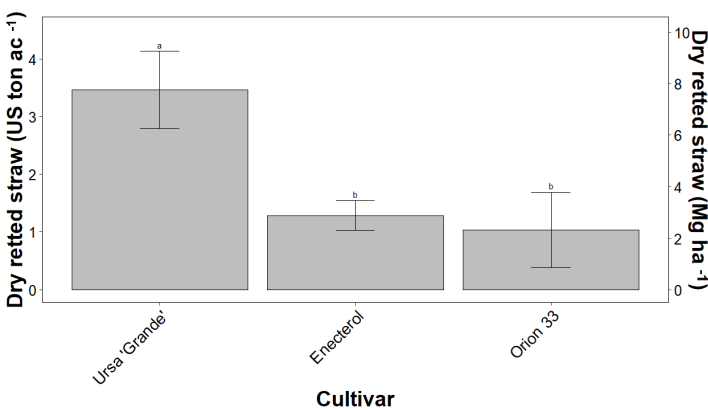
- Ursa™ ‘Grande’ is competitive with commercial dual cultivars in NY.
- Its competitive grain yield is complemented with significantly larger seed size and dry-retted straw yield.
- Its grain yield and seed size increase at greater latitudes, suggesting a positive correlation with flowering time. Also, bird pressure must be considered due to potential yield losses (seen in Ithaca, NY).
- Seed crude protein content per dry weight fluctuated between 21 % to 35% in 2022.
- It consistently produced an undetectable total.



**Figure 4.** Mean grain yield (at 8% moisture content) of three (out of 17 planted) dual-purpose hemp cultivars tested in Geneva, NY in 2022.



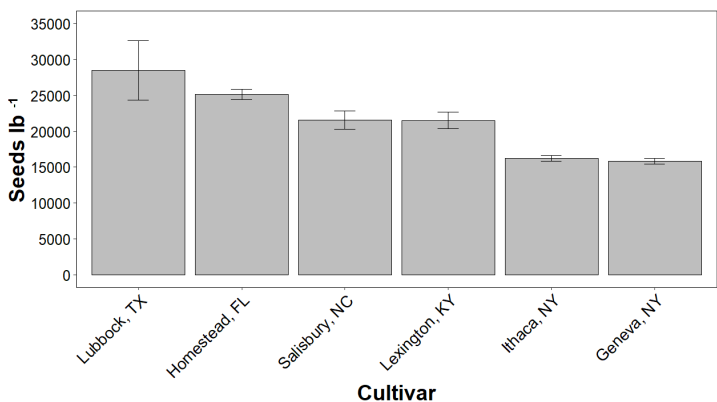
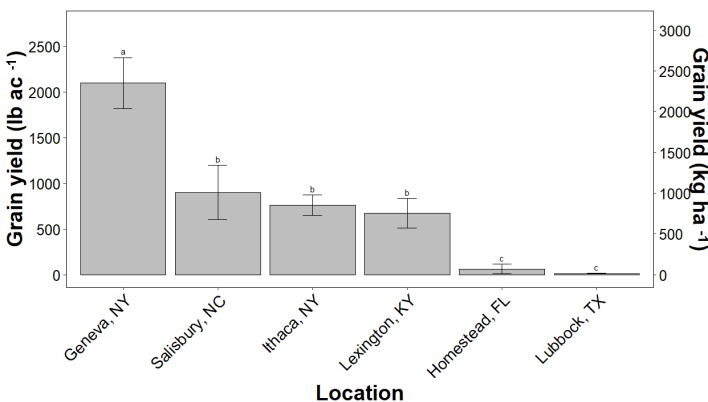
**Figure 5** Mean seed quantity per pound harvested (at 8% moisture content) of three (out of 17 planted) dual-purpose hemp cultivars tested in Geneva, NY in 2022.



**Figure 6.** Mean dry retted straw yield of three (out of 17 planted) dual-purpose hemp cultivars tested in Geneva, NY in 2022.

**Figure 7.** Mean canopy heights of 18 dual-purpose hemp cultivars tested in Geneva, NY in 2022.

## Performance across latitudes



**Figure 8.** Mean grain yield (at 8% moisture content) of Ursa 'Grande' cultivated at different latitudes in 2022.

**Figure 9.** Mean seed quantity per pound harvested (at 8% moisture content) of Ursa 'Grande' cultivated at different latitudes in 2022.