



# Cornell Hemp

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

## 2021 CBD & CBG Cultivar Trials

Maylin Murdock, McKenzie Schessl, Alex Wares, Luis Monserrate, George Stack, Jacob Toth, Savanna Shelnut, Heather Grab, Jamie Crawford, Ginny Moore, Larry Smart

CBD Cultivar	Propagation	Source	Germination	Location
Umpqua	Fem Seed	Arcadia Biosciences	96%	GVA and ITH
Rogue	Fem Seed	Arcadia Biosciences	93%	GVA and ITH
Santiam	Fem Seed	Arcadia Biosciences	96%	GVA and ITH
Truckee	Fem Seed	Arcadia Biosciences	83%	GVA and ITH
Metolius	Fem Seed	Arcadia Biosciences	95%	GVA and ITH
Tangerine	Fem Seed	Atlas Seeds	75%	GVA and ITH
GVA-H-19-1067-001	Clone	Cornell Hemp	-	GVA and ITH
GVA-H-19-1066-001	Clone	Cornell Hemp	-	GVA and ITH
GVA-H-21-1002	Fem Seed	Cornell Hemp	84%	GVA and ITH
Sour Kush	Fem Seed	Kayagene	93%	GVA and ITH
Bubbatonic	Fem Seed	Kayagene	87%	GVA and ITH
Suver Haze	Fem Seed	Oregon CBD	95%	GVA and ITH
Suver Haze Seedless*	Fem Seed	Oregon CBD	99%	GVA and ITH
Lifter	Fem Seed	Oregon CBD	99%	GVA and ITH
Lifter Seedless*	Fem Seed	Oregon CBD	97%	GVA and ITH
PhotoCBD	Fem Seed	Phylos	95%	GVA and ITH
Golden Kush (NS52)	Fem Seed	Phytonyx	100%	GVA and ITH
Magic Bullet #5	Fem Seed	Point3 Farma	96%	GVA and ITH
Cherry Wine	Fem seed	Point3 Farma	51%	GVA and ITH
TJ's CBD	Clone	Stem Holdings Agri	-	GVA and ITH
FL 49	Clone	Sunrise Genetics	-	GVA and ITH
FL 58	Clone	Sunrise Genetics	-	GVA and ITH
FL 70	Clone	Sunrise Genetics	-	GVA and ITH
Z 25	Clone	Sunrise Genetics	-	GVA and ITH
Apollo	Fem Seed	Davis Farms	94%	GVA
Eighty-Eight	Fem Seed	Davis Farms	96%	GVA
Purple Emperor	Fem Seed	Davis Farms	100%	GVA
Skipper	Fem Seed	Davis Farms	100%	GVA
Fruity Petals	Fem Seed	Front Range Bioscience	96%	GVA
Valerie 17	Fem Seed	Front Range Bioscience	98%	GVA
Valerie 29	Fem Seed	Front Range Bioscience	98%	GVA
Sour Suver Haze Seedless*	Fem Seed	Oregon CBD	98%	GVA
Sour Lifter Seedless*	Fem Seed	Oregon CBD	98%	GVA
Pine Walker Seedless*	Fem seed	Oregon CBD	90%	GVA
Hempress	Fem Seed	Point3 Farma	96%	GVA

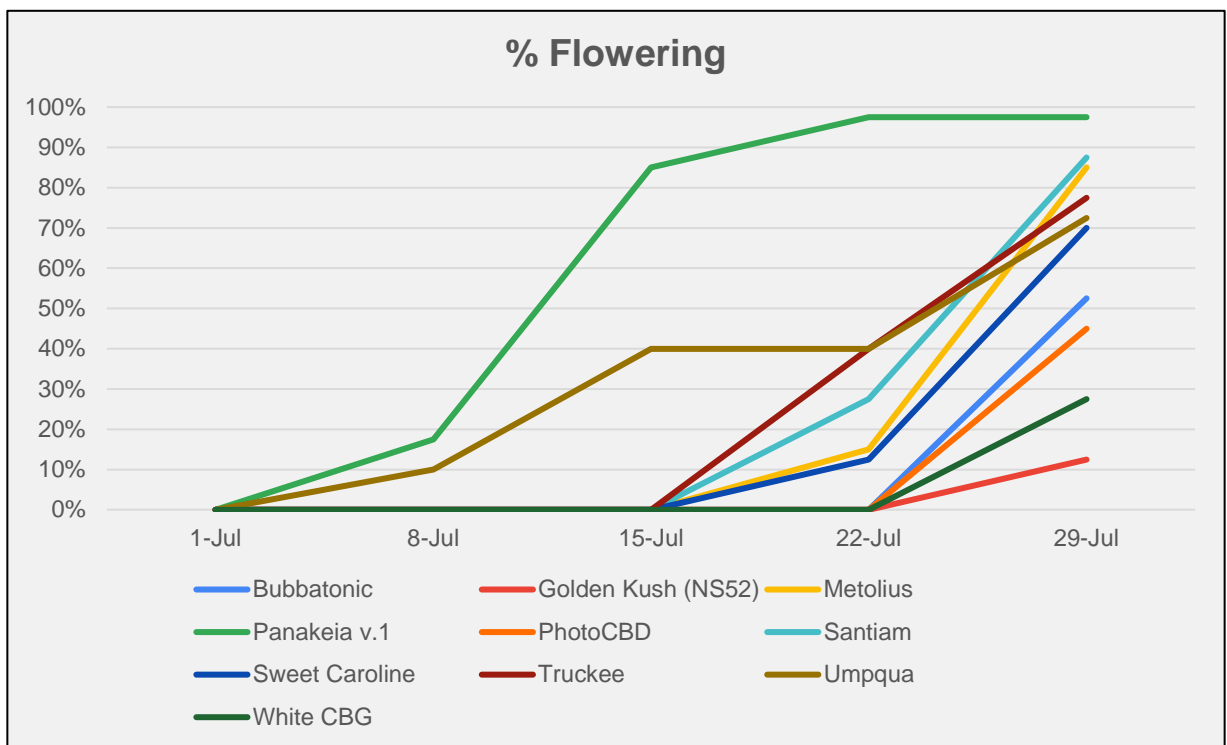
\*Triploid



CBG Cultivar	Propagation	Source	Germination	Location
Panakeia v.1	Clone	Bazelet Health	-	GVA and ITH
White CBG	Fem Seed	Oregon CBD	91%	GVA and ITH
White CBG Seedless*	Fem Seed	Oregon CBD	95%	GVA and ITH
Sweet Caroline	Clone	Ryes Creek	-	GVA and ITH
Pure CBG	Fem Seed	Alterra Hemp	88%	GVA
Panakeia v.2	Clone	Bazelet Health	-	GVA

\*Triploid

In addition to evaluating yield and performance, our research aims for this trial include: (1) assessing trichome development and cannabinoid accumulation, (2) studying floral morphology, (3) and employing remote sensing to understand the relationship between trichome development, floral morphology and cannabinoid accumulation.



The figure indicates the percentage of plants for each cultivar that had initiated terminal flowering by July 29<sup>th</sup>, 2021. The trials were planted June 14<sup>th</sup> and 15<sup>th</sup> in Geneva and Ithaca, respectively. Ten of the 40 cultivars in the 2021 CBD-CBG trial have initiated terminal flowering by July 29<sup>th</sup>. Notably, all 'Panakeia v.1' had terminally flowered by July 22<sup>nd</sup>, while 'Umpqua' plants continue to transition to flower with some having flowered early and some just starting to flower in August. Not included, 10% of 'Hempress' planted were day neutral and flowered by June 24<sup>th</sup>.

We gratefully acknowledge the generous companies listed who provided seed and/or clones gratis in support of our research.