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Brewing: The Basics



Grain

Malting barley varieties suited for Virginia

Virginia Tech's malting barley work is focusing on developing varieties that yield well, tolerate the taste and quality characteristics demanded by brewers.



John Hart
May 27, 2018

🕒 3 Min Read



Murphy & Rude to Triple Malt Production

Apr 19, 2023 | Beer, Brew News, News



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Today, Bloem works directly with harvesters at Brann Farms (Christiansburg), Wheatland Springs Farm (Waterford), Hill View Farms (Danville), Three Monkeys Farm (Reston), Piedmont Grain & Cattle (Rochelle), and Bay's Best Feed (Heathsville).



Yeast



VP PRO Q&A

Jasper Akerboom Is Cultivating Custom Yeast Strains for Hundreds of Craft Brewers

WORDS: MEG ST-ESPRIT



Produce





Produce From The Farm

tomatoes

hawthorn berries

lemongrass

ginger

plums

hibiscus

red clover

lavender

blackberries

Pears

Aronia berries

peach tree leaves

elder flowers

chamomile

elderberries

strawberries

honeysuckle

chicory

butternut

pumpkins

sweet potatoes

figs

raspberries

persimmons

cantaloupe

spicebush

raspberry

yarrow

grapes

cherries

cucumber

mint

rose hips



The Challenge of Hops





(7/21)



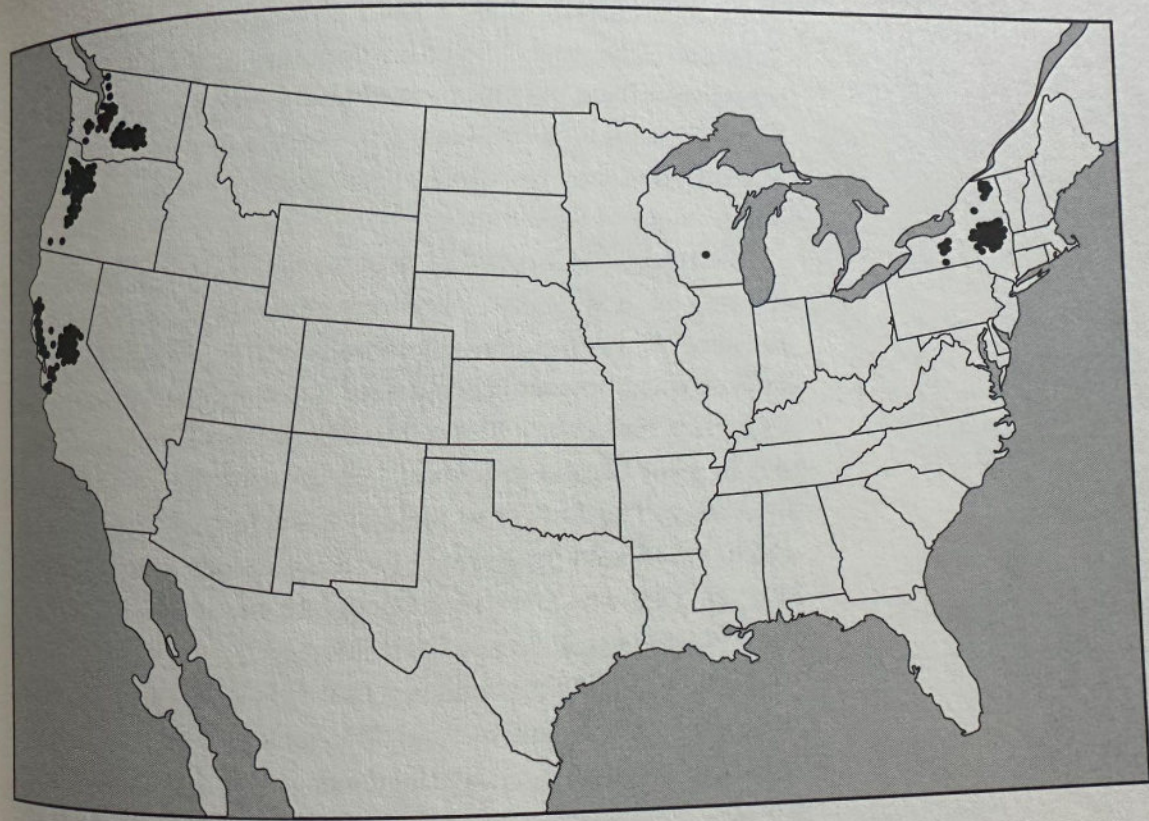
Staples planted five acres of hops and built a hops-processing facility on his new farm. It just so happens it's also the largest processing plant in the



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dependence claimed the title of "Hop Center of the World," largely due to the enormous fields at "Bird Island," made up of

1.11 Commercial hop production in the United States, 1899. Each dot on

The Best Hop Varieties for Hazy IPAs

BRU-1™: Not only is BRU-1™ just dripping with juicy, ripe pineapples, but it also appears to offer some unique polyphenols that may help contribute to a better and more stable haze. Strong enough to carry a beer on its own, but works best as an accent hop.

Cascade: It's a classic and for good reason. Cascade's signature grapefruit aroma is a great fit in any IPA, but it also offers some precursors and free thiols in the form of 4-MMP, 3-MH, and 3-MHA. Cascade plays well as a supporting character and synergizes well with other classics like Chinook and Nugget.

Chinook: This is our favorite sleeper variety that often gets overlooked. Chinook offers the perfect aroma that is packed with biotransformation compounds like Geraniol and Linalool, as well as a little bit of 4-MMP. Hotside, whirlpool, or dry hop, Chinook has amazing things to offer. So basically, just use it in all your beers.

Citra®: This one has it all. Citra® is undisputedly the best hop for Hazy IPAs. From key biotransformation compounds like Linalool and Geraniol to free thiols like 4-MMP, Citra® offers everything you could want in your NEIPA. Citra® is the easy button for brewing the best hazies around.

CTZ: Another variety that often gets overlooked, but it is a certifiable banger in Hazy IPAs. Columbus is loaded with Linalool for biotransformation as well as aromas of ripe oranges. Columbus often gets a bad rap as an alpha variety, but when Columbus is picked as an aroma variety, it is bright, beautiful, and fits perfectly in your hazy.

El Dorado®: Its nickname of The Tropical Hop is well deserved. El Dorado® is sweet with melons, pineapple, and stone fruit. It plays well with many popular hops including Citra®, Mosaic®, and Galaxy® and adds a perfect splash of fruit juice to any recipe. El Dorado® performs well in single-hopped hazies, but really excels when surrounded by her friends.

Mosaic®: Mosaic® is neck and neck with Citra® for greatest hop of all time. It's a good thing that it is a friendly competition, because Citra® and Mosaic® are the perfect partners. While Citra® and Mosaic® are an unstoppable duo, Mosaic® is a superstar in its own right. It offers up beautiful flavors of blueberries and sweet fruit that can carry any single-hop beer. Mosaic® is the daughter of Nugget, so maybe that's where she gets her good genes from!

Nugget: Another classic variety that has found new life and meaning in hazies. Nugget is packed with biotransformation compounds like Geraniol and 4-MMP and works well on the hotside. Paired up with Chinook, this duo stands toe to toe with even the best modern varieties.

Sabro®: Is a newer variety that is right at home in the haze. Sabro® is zesty with tangerine, lemon, and lime. Brewers also report distinctive flavors of pineapple and peaches that really come through in hazies. Sabro® also offers up a unique character of sweet cream and coconut. We love when there is a hint of Sabro™ in a hazy IPA, so even just 10-20% of Sabro® in your hop bill will really kick it up a notch.

Galaxy®: Just like Citra®, Galaxy® doesn't make a bad beer. It is big, bold, and just bursting at the seams with juicy citrus fruit. Galaxy® historically has a very high oil percentage, so it is incredibly impactful and even a little goes a long way. In a single hop or as part of a team, Galaxy® can elevate any beer and make it more than memorable.

The Best Hop Varieties for Hazy IPAs

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A Local Grain Story

Barley in Virginia

350 breweries, 460,000 barrels of beer produced

23 million lb of malt

4,000-5,000 acres of barley needed

Virginia harvest 7,000 acres/year per USDA

virginia grows roughly 500,000 acres of corn alone

Barley in Fauquier

Climate

Variety

Growing Knowledge

Barley Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted ¹			Area harvested		
	2019 (1,000 acres)	2020 (1,000 acres)	2021 (1,000 acres)	2019 (1,000 acres)	2020 (1,000 acres)	2021 (1,000 acres)
Alaska	6	6	6	5	5	5
Arizona	18	12	16	15	8	14
California	65	60	40	47	33	13
Colorado	54	56	52	52	47	47
Delaware	21	21	21	14	15	14
Idaho	550	530	520	530	500	490
Kansas	14	16	14	4	6	4
Maine	15	15	12	14	14	10
Maryland	32	34	33	17	21	18
Michigan	11	11	10	8	8	8
Minnesota	70	70	55	55	50	34
Montana	950	970	940	760	790	625
New York	10	9	9	4	5	5
North Carolina	11	14	13	6	8	7
North Dakota	580	530	580	445	460	430
Oregon	45	45	37	35	30	19
Pennsylvania	35	45	45	25	30	28
South Dakota	37	35	30	9	14	14
Utah	18	21	17	11	12	9
Virginia	30	31	30	7	7	7
Washington	95	90	83	84	71	70
Wisconsin	24	26	15	8	13	7
Wyoming	81	79	82	66	67	70
United States	2,772	2,726	2,660	2,221	2,214	1,948

See footnote(s) at end of table.

--continued



Powers Brewery and Messick's Farm team up to launch local brew

James Jarvis, jjarvis@FauquierNow.com May 18, 2023 1



Marshall



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If you find yourself at the mercy of the Criminal Justice System choose your best defense

Mark B. Williams









Bloody Butcher

Planted & harvested by hand at Powers in 2019, yielded 50# of seed

Planted on 5 acres at Messicks, harvested at 20,000 lb.

- Drying to moisture spec - timing, transport, stalk failure
- Harvest
- Storage
- Transport

Malted in Charlottesville

Scale Issues

Yield comparisons

Price comparisons

Drying minimums

Transport minimums

Malting minimums

Batch sizes



Powers Farm & Brewery
Est. 2017