

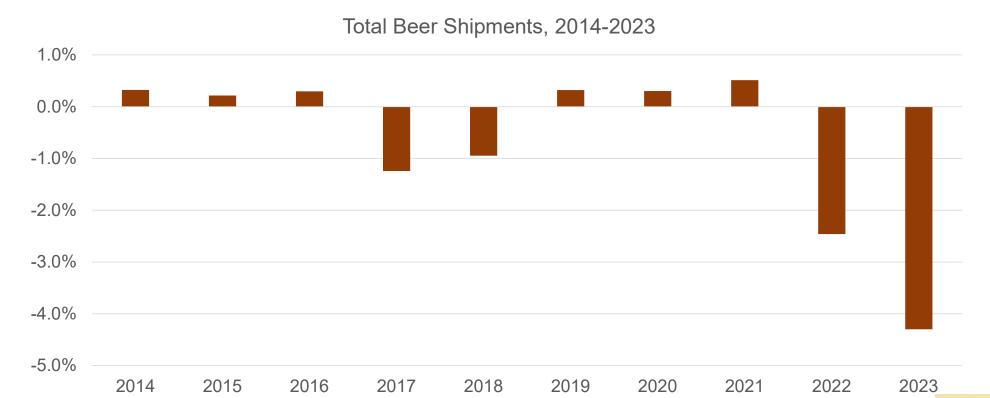
Katie Fromuth
Technical Brewing Projects Manager



Thank you!



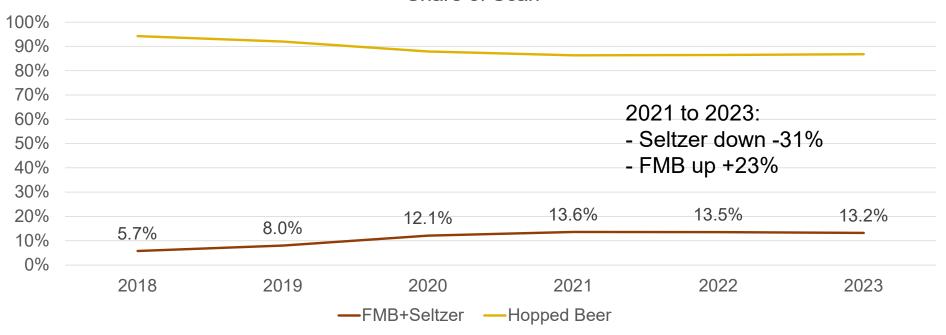
Beer Down 7% over Past Decade



Source: Beer Institute

And Much of that "Beer Isn't Beer

Hopped Beer vs FMB/Seltzer Share of Scan





Since 2018

- "Beer Volume down -5.6%
- Hopped beer lost 7.5 share points ₩ithin beer (scan)
- Implies closer to 13.5% volume loss for hopped beer



Review of Craft in 2023

- Craft likely declined lightly in 2023
 - Circana scan -4.6% by volume
 - Total independent better with Yuengling
 - TTB Keg down -4.6% through September (likely will be slightly positive with revisions)
 - Leaves at the brewery piece likely positive but not going to dig out of that hole
- Midyear estimate of -2% volume still seems reasonable

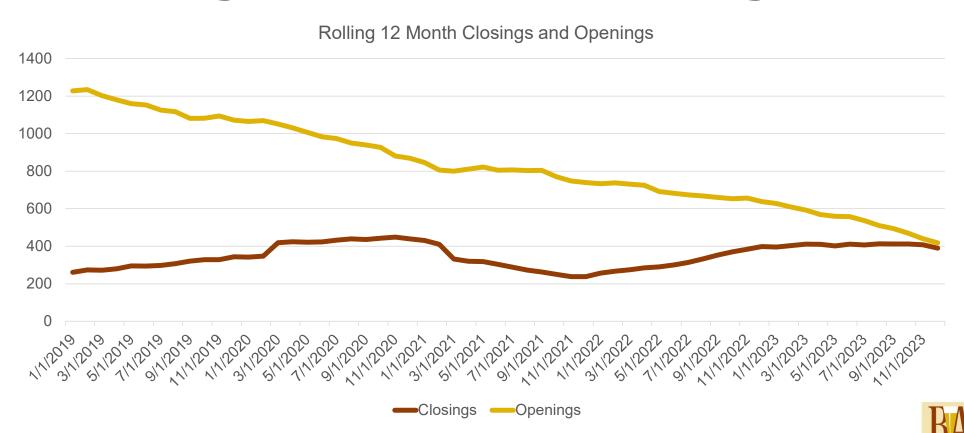


Beer Industry Production Survey So Far...

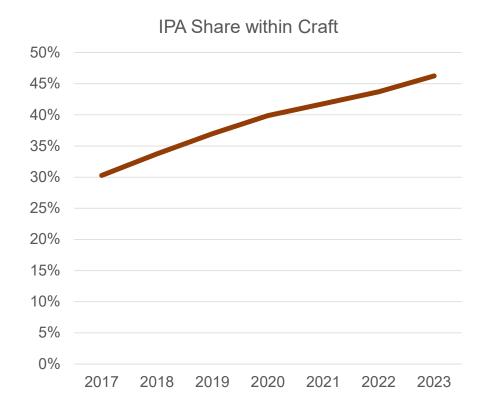
- ~600 responses
- Running slightly positive!
- Almost certainly response bias right now
- But good reminder that there are plenty of growth stories still out there

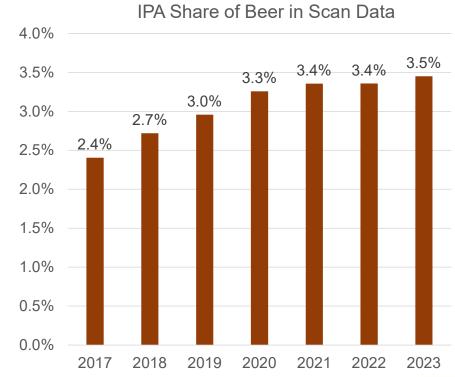


Brewery Number Essentially Static



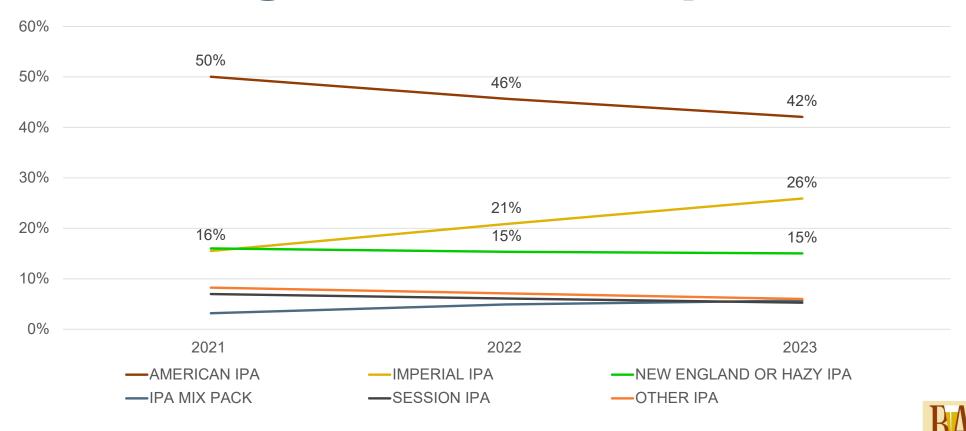
IPA in Scan Data







Shifting Craft IPA Composition





What else is up/down?

Up

1. BLONDE ALE

2. OTHER PALE

LAGER

3. AMERICAN

LAGER

4. LOW OR NO

ALCOHOL

5. PILSNER

Down

1. WITBIER

2. SEASONAL RELEASE

3. VIENNA AMBER OR RED

LAGER

4. AMERICAN PALE ALE

5. BEER FLAGSHIP PLUS

MIX PACK

Possibly losing slightly KFO in this equation



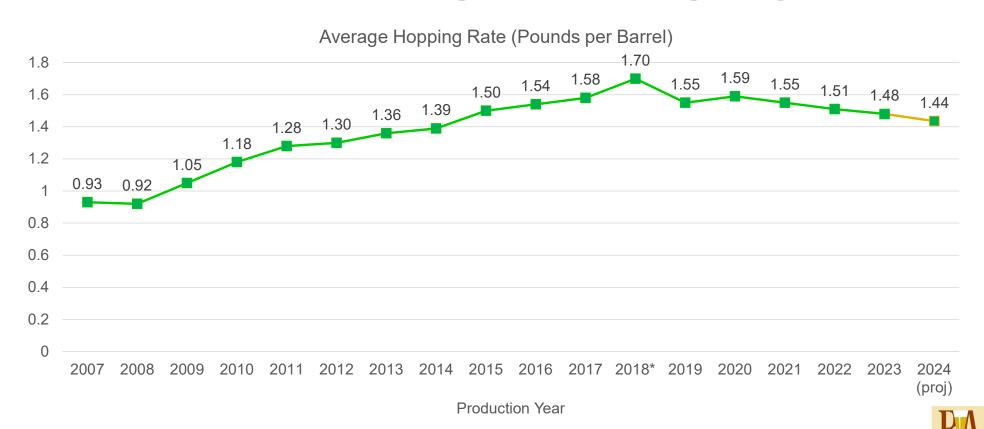


2023 Brewers Association Hop Survey

- Annual Survey; 15 Years of Data collected 2008 2023
- •A SURVEY, so the results shown are estimates: "Actual Mileage May Vary"
- 58.5% report at least some forward contracting vs 61.5% last year*
 - Trend is slight decline
- Extrapolate from missing responses (survey respondents have higher average hop usage than shown on next slide)
 - * Respondent bias for higher usage

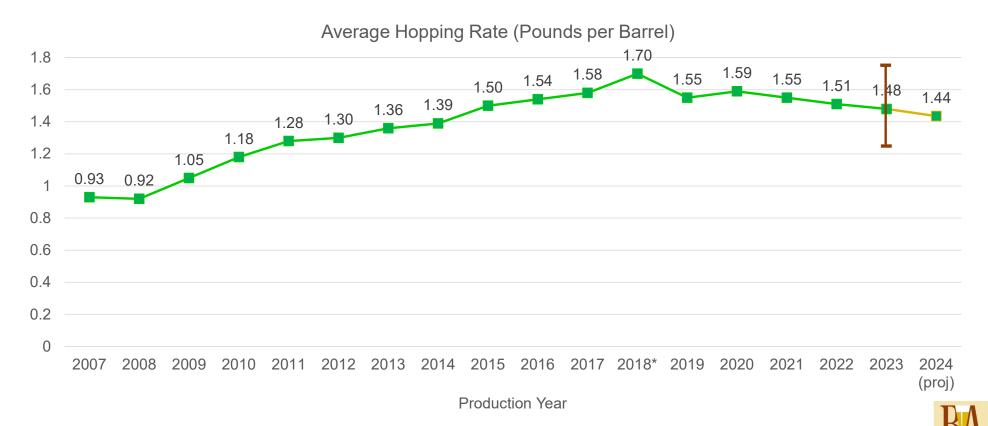


Reported Hopping Rate Slightly Down





Reported Hopping Rate Slightly Down



Notes: 2019 Revised. Previous years = survey year, not production year

Brewers Using Slightly Fewer Reported Hops per Barrel

- 44% saw hopping rate drop
- 6% static
- 50% grow
- Smaller brewers more likely growing
- Regional more likely dropping

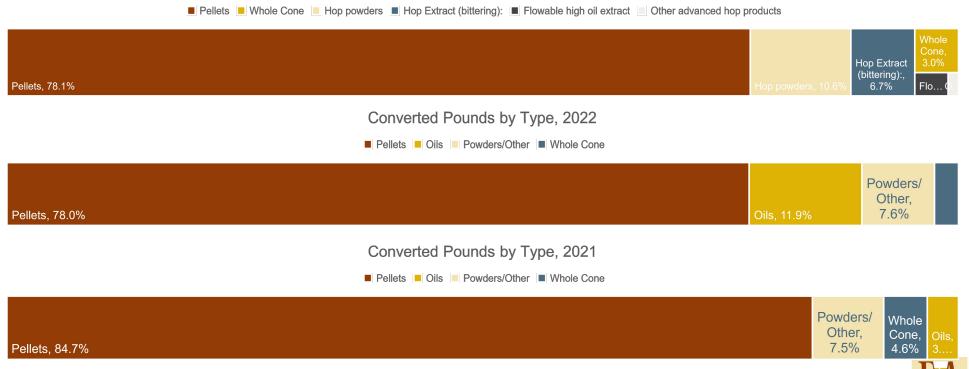
So net is slight drop

BUT...



Hop Breakdown

Converted Pounds by Type, 2023





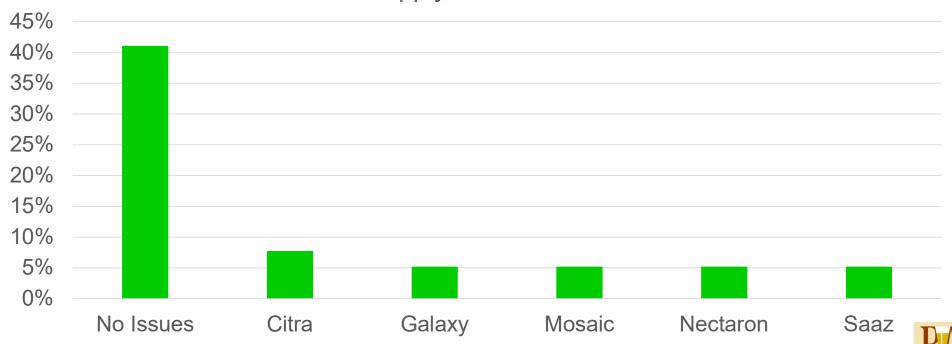
Oil/Powder/Downstream Usage

- Asked differently this year, but...
 - •Each 2023 Reported lb = ~1.15 lbs raw hops (fuzzy math)
 - •2023 Ave #/BBL = 1.7lbs
 - •Each 2022 Reported lb = ~1.16 lbs raw hops
 - •Each 2021 Reported lb = ~1.07 lbs raw hops
- •Given sample size, etc. well within margin of error so hard to point to clear changes.
- What is clear is that downstream use continues to evolve and effects



What do Brewers Want More Of?

If there were one hop you would use more of if you could get a stable supply, what would it be?



Usage and Production

Summary:

- Craft likely down slightly in 2023
 - 2024 might see bit of growth, but low single digit growth or decline likely no huge changes
- Brewers report fewer lbs/barrel, but may be offset by increasing use of oils/powders products – total hop usage slightly down to static
- But continued IPA share growth...
- No huge changes in overall usage levels, but specific needs are evolving KFO

Technical & Stats Resources

- 1. Ten Points and Predictions for 2024, Bart Watson, BA Collab Hour https://www.brewersassociation.org/collab-hour/ten-points-and-predictions-for-2024/
- 2. Contracting for Brewers: Insights and Best Practices

 https://www.brewersassociation.org/educational-publications/contracting-for-brewers-insights-and-best-practices/
- 3. Craft Brewers Conference, Las Vegas, April 21-24
 - Exploring Hop Picking Windows and Their Impact on Aroma and Flavor
 - Exploring the Boundaries of Innovation: Biotechnology and Brewing Ingredients
 - Selecting Quality Hops: Alternative Methods for Small Breweries
 - The Next Great Hop: What's New in Public Hop Breeding and How You Can Contribute
 - Brewer's Hop Creep Cheat Sheet: A Comparative Analysis of Hop Variety, Quantity,
 Origin, and Product Type



