Greater Houston Area Mixed Beverage Receipt Trends

Cameo Crawford | DeAndrea Norris | Beth Kaster



Project Motivations & Summary

Mission:

To determine which city in the Greater Houston Area to place beverage to sell and whether or not to charge a cover <u>based</u> a potential establishment that sells adult beverages, which on individual sales, cover charge receipts, and sales per capita.



Data Questions and Inferences

Questions:

- Which alcoholic beverage (liquor, wine, beer) is the most popular in the top cities in the greater Houston area?
- What is the average receipt sales per beverage per city?
- What is the percentage breakdown of beverage types with the highest total receipts by Houston Area?
- Is there a correlation between locations that charge a cover and their sales?

Data Inferences and Assumptions:

- Assumes that people live where they buy adult beverages
- Assumes that all receipts in the data represent open businesses
- Did not consider expensessuch as real estate, taxes and permits into decision
- Did not consider unreported, under reported or illegal liquor sales



Data Cleanup and Exploration

- The primary source for alcohol related sales and receipts is Texas Alcohol and Beverage Commission (TABC) website
- lines for the entire state of Texas this led us to choose Houston and certain surrounding cities The TABC dataset is greater than 2.3 million which allowed us to have just over 375,000 lines of data for analysis
 - government website that listed the populations we exported a list from another online source of all the cities selected for export - therefore Unfortunately we were unable to locate a



Data Links

- Data Links
- The TABC website

https://data.texas.gov/Government-and-Taxes/Mixe d-Beverage-Gross-Receipts

- Population Data

https://en.wikipedia.org/wiki/List of cities in Texas by population



Data Insights and Issues

Data Issues

- There is no report end and begin date to perform a sales analysis per annum
- web platform to merge and add files at the end remote pulls and pushes - we had to use the experienced data size errors that prevented The dataset was too large to load and we of the project

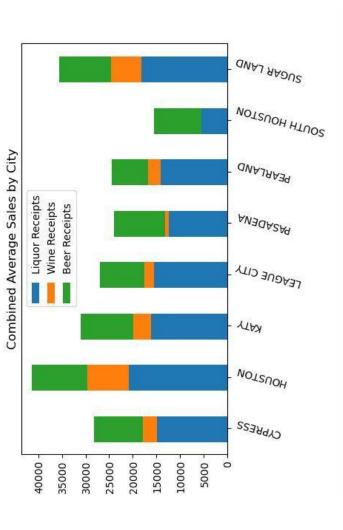
Data Insights

Sugar Land and Katy are drunk.



Data Analysis - Average Sales

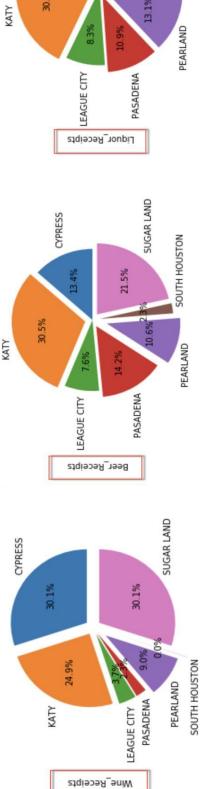
- Average sales shows that Houstonians prefer liquor over beer and wine
- Sugar Land is significantly smaller than Houston, but was closely paced in average sales in all categories
- Beer receipts in Katy are almost even to those in Houston
- Wine is not popular in South Houston

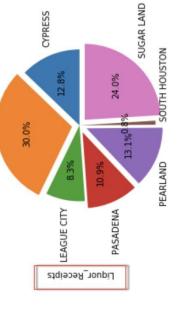


Location City	Location City Liquor Receipts Wine Receipts Beer Receipts	Wine Receipts	Beer Receipts
HOUSTON	\$20,774.75	\$8,819.39	\$11,856.18
SUGAR LAND	\$18,173.24	\$6,454.85	\$10,905.61
KATY	\$16,145.23	\$3,799.41	\$11,023.39
LEAGUE CITY	\$15,534.43	\$1,964.48	\$9,532.02
CYPRESS	\$14,840.85	\$2,981.80	\$10,407.04
PEARLAND	\$14,065.85	\$2,740.41	\$7,642.50
PASADENA	\$12,418.68	\$737.87	\$10,859.26
SOUTH HOUSTON	\$5,469.92	\$74.26	\$9,940.32



Data Analysis - Percent Sales





Wine Receipts
Weer Receipts
WLiquor Receipts

Location City

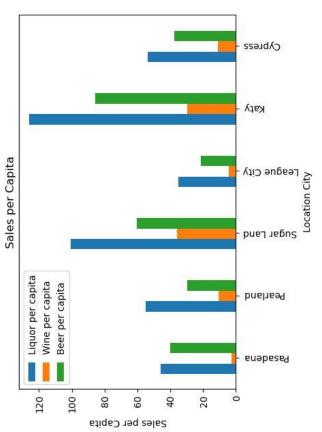
HOUSTON	92.600204	84.883890	86.860923
SUGAR LAND	2.814683	3.242651	3.155663
KATY	2.330261	4.610109	3.943195
CYPRESS	0.849669	2.022111	1.684010
PEARLAND	0.840701	1.598707	1.718334
LEAGUE CITY	0.346573	1.146671	1.091332
PASADENA	0.214104	2.148571	1.434938
SOUTH HOUSTON	0.003805	0.347290	0.111604

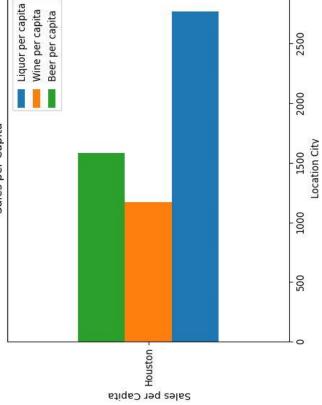


*Due to size Houston was removed from the pie representations of percent sales

Data Analysis - Sales per Capita

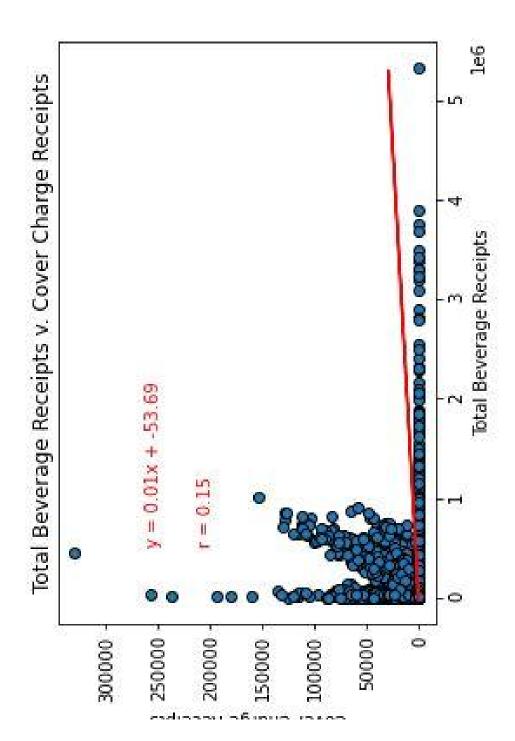
	Rank	Location City	Liquor	Wine	Beer	2019 Census Estimates	2010 Census	% Change	Liquor per capita	Wine per capita	Beer per capita
0	-	Houston	Houston 6453690370 2736345615 36934	2736345615	3693453599	2325502	2099451	10.77%	2775.181604	1176.668786	1588.239270
~	19	Pasadena	106477798	6326538	93107326	153219	149043	2.80%	45.787016	2.720504	40.037517
7	29	Pearland	127506901	24841772	69279232	122149	91252	31.44%	54.829839	10.682327	29.791087
3	31	Sugar Land	234162156	83170769	140518763	118600	78817	50.48%	100.693165	35.764652	60.425131
4	37	League City	80980972	10240838	49690440	106244	83560	25.54%	34.823007	4.403711	21.367619
5	69	Katy	292599960	68856618	199776953	21729	14102	35.10%	125.822278	29.609357	85,907023
9	70	Cypress	124959916	25106779	87627246	182459	122803	32.69%	53.734598	10.796284	37.681002
			Sale	Sales per Capita							







Data Analysis - Cover Charge Regression





Findings

- Houstonians prefer liquor over beer and wine
- Katy and Sugar Land are the biggest adult beverage markets per capita outside of Houston
- Average sales in Sugar Land market lean heavily toward mixed beverage and liquor sales
- Average sales in Katy market lean heavily toward beer sales
- There is no evidence that a cover charge is a factor in adult beverage sales



Post Mortem

A budding entrepreneur interested in opening an adult beverage establishment should open either:

A Beer Garden in Katy



A Bar in Sugar Land



OR R





