

Abundance of Medical Marijuana Dispensaries & Grow Operations in Pittsburg County,

Oklahoma

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Abstract

The legalization of medical marijuana in Oklahoma in 2019 has contributed to a boom in medical marijuana grows and dispensaries around the state and particularly in Pittsburg County. The dominate explanation of this is the ease in obtaining a medical marijuana grower license and a medical marijuana dispensary license from the State of Oklahoma. Another explanation for the boom in medical marijuana grows and medical marijuana dispensaries is the demand by patients for easily accessible marijuana. The desire to cash in on a once illegal trade that has now become a common practice with self-proclaimed entrepreneurs and master growers to open a new medical marijuana dispensary and/or medical marijuana grow. Providing Medical Marijuana patients with easy access to their medicine is the most beneficial reasoning for the number of medical marijuana dispensaries in Pittsburg County. My hope is that my research identifies which parts of Pittsburg County are oversaturated with medical marijuana dispensaries and which parts of the county could sustain more medical marijuana dispensaries. Identifying how many medical marijuana grow locations there are in Pittsburg County will allow for a comparison to the number of medical marijuana dispensaries there are within the county limits.

Keywords: Oklahoma Medical Marijuana Authority (OMMA), Medical Marijuana, Oklahoma, Pittsburg County Medical Marijuana, Pittsburg County, GIS, PostGIS, QGIS, OU Geospatial Technologies, Final Project, Geospatial Technologies, Spatial Data.

Introduction

Since the passage of Oklahoma State Question 788 in June 2018, many Oklahoma residents are using medical marijuana to treat their ailments. With the growing number of patients being approved for a medical marijuana license, the ease of obtaining the still federally illegal substance becomes an issue. In the case of Pittsburg County, OK, is the number of medical marijuana dispensaries too high or too low to provide the patients with easily accessible marijuana? I wanted to investigate the number of licensed medical marijuana dispensaries in Pittsburg County so see if there is an abundance or a lack of dispensaries based on the number of licensed patients in Pittsburg County.

Background

In 2016, Oklahoma legislators crafted an initiative petition, known as State Question 788. State Question 788 allowed for the licensed cultivation, use and possession of marijuana for medical purposes (State Question 788 Initiative Petition no. 412, 2016). The rewriting of State Question 788 was placed on the ballot and was passed by 57% on June 26, 2018 (John David Rausch, 2019). The first medical marijuana business and patient licenses were issued just two months later. Oklahoma Medical Marijuana Authority (OMMA) is the oversight of patients and businesses licensed to cultivate, process, and dispense medical marijuana to licensed patients, or card holders. OMMA falls under the Oklahoma Department of Health and is subsidized by the State of Oklahoma and taxpayers.

Obtaining a patient license is simple. In the passage of 788, the requirements for someone over the age of 18 to obtain a patient license is that they fill out an application and have that application signed by a physician who is an Oklahoma Board certified physician. There are no qualifying medical conditions. The patient must be a current resident of the state of

Oklahoma (State Question 788 Initiative Petition no. 412, 2016). For patients under the age of 18, they must have their parent or guardian's signature, as well as the application filled out and signed by two board certified physicians. The fee for the patient license is \$100 to OMMA, unless the patient is a 100% disabled veteran, or if you are on Medicaid or Soonercare and then the fee is \$20. Patient licenses must be renewed every 2 years (Health, 2020).

Since there are no qualifying medical conditions and that essentially any Oklahoma Board certified physician can recommend a patient to obtain their license, the percentage of Oklahoma licensed patients leads the Nation (Medical Marijuana Patient Numbers, 2020). Because cannabis is known to help certain ailments, people flock to the idea that natural medicine is ideal over pharmaceuticals. Kathleen Brady, M.D. wrote, "...the U.S. Food and Drug Administration (FDA) has not approved a marketing application for cannabis for the treatment of any disease or condition" but that cannabinoids have shown promise in the treatment of chronic pain (Kathleen T. Brady, 2020).

Obtaining a business license for the cultivation (grow), processing, or dispensing of medical marijuana in Oklahoma is just as easy as obtaining a patient license. For this paper, we are only looking at the requirements for cultivation and dispensaries. According to OMMA, in order to obtain a business license for a grow or dispensary, the owner (at least 75% controlled) must be an Oklahoma resident who has lived in Oklahoma for the past 2 years. They must pay a \$2500 application fee that will need to be renewed every year. The applicant must be over 25 years old and cannot have any violent, drug related, or tax felony convictions in the past 5 years. The location of the business must be at least 1000ft from any public or private school. In addition to the State requirements, business license holders must obtain an Oklahoma Bureau of Narcotics license for \$500 due to the federal illegal status on marijuana. The ease in obtaining a

business license for the cultivation or dispensing of medical marijuana has made Oklahoma a hotspot.

Identifying the locations of each licensed dispensary or licensed grow operation was difficult due to the lack of public information available through OMMA and other sources. The lack of spatial data in this area for the state of Oklahoma is not surprising, but the lack of Nationwide data is surprising. In Los Angeles County in California, researchers set out to map marijuana outlets (dispensaries) and ran into lack of public information. What they found after 3 months of in the field research is that of the 531 outlets listed in online forums found that only 430 were open for business (Pedersen, et al., 2020).

Locations of dispensaries are primarily on heavily traveled roads or highways. This allows for those traveling through to easily identify where dispensaries are located. Thomas & Freisthler's research in California also suggested that dispensaries were indeed primarily located in commercial zones with greater road access..

Materials and Methods

For this research paper I used internet database searching for most of my data, I also used Google Earth Pro to locate businesses coordinates, QGIS to convert spreadsheet data to .shp files, and PostGIS to manipulate the data and run distance calculations. I input all my data into OSF.IO to allow for myself to be able to add, subtract, and work on this paper from multiple computers. After the data was collected, organized, and processed I was able to come up with my results.

I was able to find the number of licensed patients from the OMMA website and then I was able to identify the percentage of licensed patients in the state. The patient license number is based upon the state population and the number of licensed patients in the state. This percentage

was used to find out how many potential licensed patients there are in each town and within Pittsburg County (Oklahoma Medical Marijuana Authority, 2021).

To complete an attribute table, I needed to gather the name, address, and city of each dispensaries located within Pittsburg County. I used OMMA's online list of Licensed Dispensaries and searched within to find those within Pittsburg County (OMMA, Licensed Dispensaries, 2021). Table 1 is titled Dispensary List and there are 25 rows and 4 columns in this spreadsheet. I used roughly the same method for finding licensed grows within Pittsburg County with the exception that I was not able to identify the spatial data for each of the grows (OMMA, Licensed Growers, 2021). Table 2 is titled Licensed Grows Pittsburg County and there are 150 rows and 2 columns.

To gather population data, I went to Oklahoma Demographics. From here I was able to use 2021 population data for the State of Oklahoma, Pittsburg County, McAlester, Longtown, Krebs, Hartshorne, Quinton, Haileyville, Kiowa, Savanna, Crowder, Arpelar, and Alderson (Oklahoma Population 2021, 2021). This information was placed into an Excel spreadsheet. Table 3 is titled City Population and there are 12 rows and 6 columns in this spreadsheet.

I used OK Maps – Oklahoma GIS Data Clearinghouse to gather county boundaries, highways, local roads, and Township boundaries .shp files. These were projected into WSG 84 coordinate system and placed into QGIS as individual layers.

After gathering and entering all the dispensary, population, and grow information into the spreadsheets, I was then able to save the files into a Text (tab delimited) .txt and then import them into QGIS as a new layer. When adding the layer in, I had to select a projected coordinate system, EPSG 4326 WSG 84 is the correct projected coordinate system for longitude and

latitude, which is how I identified each dispensary and city. Once they were added into QGIS, I was able to save the layer as a .shp file to be imported into PostGIS.

Once I converted my .txt file to .shp files with the proper projected coordinate systems, I was able to import the files into PostGIS. I was able to create a geometry table with using ST_AsText (geom) and identified point, line string, polygon, polygon with hole, and collections. I then selected geometry_columns and identified the following types: Dispensary List – Point, City Population – Point, City Wards – Multi polygon, ODOT Highways – Multi Line String, ODOT Local Roadways – Multi Line String, and Ok Counties – Multi Polygon.

Once my data was in PostGIS I was able to identify which dispensaries are in which towns and which dispensaries are considered outside of city limits but within the county using the SELECT FROM WHERE options in PostGIS. I was able to compare the number of dispensaries in each town to the population of the those who have a patient license. I was also able to identify the most popular dispensary in McAlester based on Facebook comments and suggestions and used it as the focal point for determining how many dispensaries are within a 1 mile, 2 mile, 5 mile, 25 mile, and 50 mile radius using ST_DWithin (geog, ST_GeomFromText ('point')).

Results

The results into finding out of there is an abundance of medical marijuana dispensaries and grows in Pittsburg County, OK are as follows:

- State of Oklahoma Population – 3,990,440
- Pittsburg County Population – 44,146
- Number of dispensaries licensed by OMMA – 2252
- Number of grows licensed by OMMA – 7635

- Number of licensed patients by OMMA for the state – 368,218
- Number of dispensaries in Pittsburg County – 31 with only 25 being storefronts.
- Number of grows in Pittsburg County – 150
- Percentage of Oklahomans who have medical marijuana license – 9.23%
- City data; population, number of dispensaries, number of licensed patients,
number of grows:

City Name	Population	Number of Dispensaries	Number of licensed patients
McAlester	18045	16	1666
Longtown	2746	2	254
Krebs	1959	2	181
Hartshorne	1935	1	179
Quinton	975	1	90
Haileyville	743	0	69
Kiowa	668	1	62
Savanna	641	0	60
Crowder	400	0	37
Arpelar	329	0	31
Alderson	285	0	27
County Limits	15420	2	1424

- Distance between most popular dispensary in McAlester and other dispensaries throughout the county.
 - 1 mile – 9 dispensaries
 - 2 miles – 15 dispensaries
 - 5 miles – 19 dispensaries
 - 25 miles – 21 dispensaries
 - 50 miles – 24 dispensaries

Discussion

Based on the information gathered and calculations, it appears that there is an abundance of medical dispensaries in the city of McAlester but not in Pittsburg County as whole. In the city of McAlester there are 16 dispensaries to provide medical marijuana for approximately 1666 licensed patients. That is a ratio of 1:104. In Longtown, where there are two dispensaries and only 254 licensed patients, this is a ratio of 1:127. In the smaller towns such as Krebs and Quinton the ratio is 1:91 and 1:90. Kiowa has a ratio of 1:62. For Pittsburg County as a whole, the ratio of dispensaries to patients is 1:1765. By opening new dispensaries outside of the city limits where almost half of the County's population lies, would provide these patients with more accessible medical marijuana.

Inside of McAlester there are currently 16 dispensaries, and of those 16, 9 are within a 1-mile radius of each other. This is concerning because of the clustering that these dispensaries are forming and not spreading out and allowing for those outside of this 1-mile radius to have easy access to medical marijuana.

In Pittsburg County there are 150 licensed grow operations which is 1.9% of the total grow operations in the State of Oklahoma. The total number may seem high but overall, in the State of Oklahoma, this is a very small percentage of licensed grow operations.

Thoughts

I feel that this project would have been more in depth and had better data if the time constraints were not so limited. Given less than 3 weeks from start to finish on a project of this size was pushing the envelope and I hope that one day I can expand on the data that I've obtained as well as more data that can be requested to find out which areas around the State of

Oklahoma can benefit from a dispensary and which areas are oversaturated. I also feel that the more I use PostGIS and OSF.io, the better I will become at spatial data analysis and research.

I would have liked to have gotten financial information to include into my research. I would like to know which dispensaries are making money and which ones are struggling each month. I know firsthand from working in a dispensary, the smaller towns are poorer and the pricing has to be reasonable to sustain. Knowing how much tax revenue Pittsburg County and each city receives from OMMA taxes would make this paper complete.

Conclusion

Oklahoma ranks number one in the number of licensed medical marijuana patients in the United States. Pittsburg County business entrepreneurs recognized this and have began opening dispensaries and grow operations throughout the county. Since August 2018 there are 25 open and operational licensed medical marijuana dispensaries and 150 grow operations in Pittsburg county. The exact number of patients inside of Pittsburg County is unknown, but the estimated number of patients is close to 4080 people which is 9.23% of the licensed patient in the State of Oklahoma. Providing patients with ease of obtaining and quality medical marijuana is important for any new dispensary or grow operation. If you are looking to purchase medical marijuana in the Pittsburg County area, all you need to do is drive down any one of the major highways or roads and you will find a dispensary willing to help you out.

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Tables

Table 1 – Dispensary List

Dispensary Name	City	Latitude	Longitude	Address
Lake & Bake	Longtown	35.239094	-95.513242	15851 OK 9
No. 9 Dispensary	Longtown	35.239553	-95.528142	16651 OK 9
Cannaisseurs	Hartshorne	34.845817	-95.557789	901 Pennsylvania Ave
Green Acres Highway	Kiowa	34.720467	-95.899608	1011 S Garfield Ave
31 Cannabis	Krebs	34.926761	-95.734997	1200 W Washington Ave
Hastag 420	Krebs	34.927158	-95.715544	8 S Main St
Buds Apothecary	McAlester	34.931144	-95.765772	306 E Choctaw Ave
Capitol Cannabis	McAlester	34.892642	-95.7749	1430 S George Nigh Expy
Chillin Station	McAlester	34.947822	-95.764814	2009 N Main St
Emerald Leaf Apothecary	McAlester	34.930086	-95.762261	524 E Choctaw Ave
Eufhoria	McAlester	34.924092	-95.749906	1501 E Wade Watts
Hemptin Medical Dispensary	McAlester	34.930583	-95.762906	100 N 5th St
Herbal Oasis	McAlester	34.918819	-95.771767	1222 S Main St
Pure Health	McAlester	34.892219	-95.782103	1615 S George Nigh Expy
Sasquatch Gardens	McAlester	34.929064	-95.775022	300 S Main St
Kings Reserves	McAlester	34.928128	-95.751775	1308 E Carl Albert Pkwy
Oklahoma Medical Ganja	McAlester	34.948878	-95.763589	2104 N Main St
Oklahoma Wildflower LLC	McAlester	34.955103	-95.761678	2655 N Main St
Royal Leaf Dispensary	McAlester	34.931481	-95.767717	124 E Choctaw Ave
The Farm	McAlester	34.944067	-95.757811	1010 N Main St
The Plug	McAlester	34.887228	-95.786789	1637 S George Nigh Expy
The Grass Station Medicinals	McAlester	34.9337	-95.769342	200 N Main St
The Pharm	McAlester	34.910558	-95.772922	1552 S Main St
Lotus Gold	McAlester	34.931525	-95.769697	23 E Choctaw Ave
Medicinal Marvals	Quinton	35.122761	-95.36895	1103 Main St

Note: This is the Dispensary List table. The dispensary name and city was located from OMMA, I used Google to search for addresses of each dispensary and then I used Google Earth to identify the latitude and longitude of each dispensary.

Table 2 – Licensed Grows in Pittsburg County

<u>Grow Name</u>	<u>City</u>
Dirtbags	Alderson
Green Leaves Garden	Blanco
Nerdy Bird LLC	Canadian
T and C Growers LLC	Canadian
King Bloom LLC	Crowder

Living Green Farms	Crowder
TNT Herbs	Crowder
Fire Farms Cannabis Company	Eufaula
Green Rush Gardens LLC	Eufaula
Greenhouse Meds	Eufaula
Hemptegrity Pharms	Eufaula
James Voils - Red Dirt Cannabis LLC	Eufaula
Nelms & Family LLC	Eufaula
Urban Forest Farms LLC	Eufaula
Pound House Farms, Inc	Eufaula
Nicky Kirkes - Nature's Grace	Haileyville
Cooper Creek Cannabis Company	Hartshorne
Green Dreams	Hartshorne
Hillside Growery	Hartshorne
Pollen Nation Cultivations	Hartshorne
The Golden Goat	Hartshorne
Xing Rong LLC	Hartshorne
DSG	Indianola
Duan Dau Dream Farm	Indianola
Golden Sunride Mtn Farm LLC	Indianola
Honeysuckle Farms	Indianola
Jimmy More	Indianola
Leefly LLC	Indianola
Left Lane Laboratories Unlimited LLC	Indianola
Mountain Hill Farm, LLC	Indianola
Nhia's Farm LLC	Indianola
Praying Mantis Organics	Indianola
SX3 Ranch LLC	Indianola
Yin Yai Farms LLC	Indianola
Cearley's Urban Farm LLC	Kiowa
Cornerstone Production LLC	Kiowa
Happy Go Lucky LLC	Kiowa
National Plant Products Inc	Kiowa
Natural Okie Wellness LLC	Kiowa

Pam Green LLC	Kiowa
Rockin Chair Remedy	Kiowa
31 Genetics	Krebs
420 Cannabis LLC	Krebs
420 Grow LLC	Krebs
Elite Growers LLC	Krebs
MCM Growers LLC - Stash House	Krebs
Nanas Farmhouse LLC	Krebs
3 Budz Growery LLC	McAlester
3 Budz Growery LLC	McAlester
3 Budz Growery LLC	McAlester
A Plus 2059 LLC	McAlester
Ace's High Cannabis Gardens LLC	McAlester
Adventure Climber - Lucid Botanicals	McAlester
Alanna Soden	McAlester
American Standards LLC	McAlester
Anderson's Dynasty LLC	McAlester
Artisan Farms LLC	McAlester
Bicknell's Cannabis Farms LLC	McAlester
Blow It Out Industries LLC	McAlester
Carly's Comforts	McAlester
Choate Prairie Farms LLC	McAlester
D & N Cultivations LLC	McAlester
Dailing's Grow LLC	McAlester
Dicks Farm LLC	McAlester
Essentialblooms LLC	McAlester
Eufaula Hills Organics LLC	McAlester
Eufaula Hills Organics LLC	McAlester
Fathead Pharms	McAlester
Firefly Cannabis Co LLC	McAlester
G & BK Farms LLC	McAlester
Garden Silver LLC	McAlester
Gary's Organic Solutions LLC	McAlester
Green Dargon Farms Incorporated	McAlester

Green Life Family Farm LLC	McAlester
Green Select LLC	McAlester
Green Star Season LLC	McAlester
Health Grow LLC	McAlester
High Point Holding Co LLC	McAlester
Highbread Cultivations LLC	McAlester
Howard's Healing Herbs LLC	McAlester
James Jones - Pure Health	McAlester
Jay Kush Farms LLC	McAlester
Jianc Green LLC	McAlester
Joint Venture Holdings LLC	McAlester
Jump-N-Bean Pharms	McAlester
Jump-N-Bean Pharms LLC	McAlester
KA Services & Performance	McAlester
KBNS Inc	McAlester
Killermiller Farms LLC	McAlester
LHB Enterprises LLC	McAlester
Lowery Estates LLC	McAlester
Lucky Rhino Farms LLC	McAlester
Mactown Pharm LLC	McAlester
Michiko Briggs	McAlester
Nom Xo Lee	McAlester
Okpe Corp	McAlester
Petersens Consulting - C4	McAlester
Phantom Labs	McAlester
Pure Heaven LLC	McAlester
Pyle Mountain Organic LLC	McAlester
Pyle Mountain Organic LLC	McAlester
Quinby Concessions LLC	McAlester
R&R Medicine Ranch LLC	McAlester
Rebomer LLC	McAlester
Redneck Reserve LLC	McAlester
Roawn Green LLC	McAlester
Sandy Loam Premium Pharms	McAlester

Saog LLC	McAlester
Sensoury LLC	McAlester
Sly Fox Greeneries LLC	McAlester
Sooner State Wellness LLC	McAlester
Strong Medicine Farm LLC	McAlester
Sunshine Plant Company LLC	McAlester
Terry Rowell	McAlester
THCOK LLC	McAlester
The Dro House	McAlester
The Flying Tomato	McAlester
The Hardy Creek Cannabis Co LLC	McAlester
The Releaf Zone LLC	McAlester
Thomas Ray Smith - Nature's Gift	McAlester
Thriven Genetics Inc	McAlester
Tongchee Lee	McAlester
Trav's Honeyhole Cannabis LLC	McAlester
Triple H Cannabis	McAlester
We'd Be Happy LLC	McAlester
Westside Farms	McAlester
Wolfhunter Farms - Wingo Family Farms	McAlester
Woods Cannabis Company	McAlester
Xi Yang Yang Green Farm LLC	McAlester
YZHU LLC	McAlester
Zyn's LLC	McAlester
Blue Angel Greenery Inc	Pittsburg
Brushy Creek Buds	Pittsburg
Elite Eighth Pharms LLC	Pittsburg
Ganja Buds LLC	Pittsburg
Perry Lovin - Lovin Farm Co	Pittsburg
Eagle Green LLC	Quinton
Ghost House Growers LLC	Quinton
Medinal Marvels LLC	Quinton
Phresh Pharms	Quinton
Sublime Agronomy Corp	Quinton

D.M.G. Gardens	Savanna
Darryl's Ole Koots Cannabis LLC	Savanna
Blackbarry Essentials LLC	Stigler
Felonious Gorilla	Stuart
Fry's Quality Bud	Stuart
Grassroots Growers	Stuart
New Adventure Farms LLC	Stuart
Red State Management	Stuart
Top Shelf Farm of Oklahoma Inc	Stuart

Note: This is the Licensed Grows in Pittsburg County data that was gathered from OMMA.

There is no spatial data assigned to this due to the privacy of the growers and the lack of information on the internet.

Table 3 – City Population

name	pop2021	density	county	longitude	latitude
McAlester	17570	418.8339	Pittsburg	-95.7687	34.9317
Longtown	2746	40.0205	Pittsburg	-95.5219	35.239
Krebs	1959	176.0171	Pittsburg	-95.7149	34.9266
Hartshorne	1935	215.9721	Pittsburg	-95.556	34.8443
Quinton	975	335.723	Pittsburg	-95.3706	35.1216
Haileyville	743	278.3397	Pittsburg	-95.5814	34.8526
Kiowa	668	201.8584	Pittsburg	-95.899132	34.72066
Savanna	641	174.0226	Pittsburg	-95.8434	34.8279
Crowder	400	78.9017	Pittsburg	-95.6693	35.1229
Arpelar	329	57.0668	Pittsburg	-95.962851	34.941367
Alderson	285	199.6358	Pittsburg	-95.6909	34.8975
County	15403	0	Pittsburg	-95.82624	34.939479

Note: This is the City Population data gathered from Oklahoma Demographics. This data includes the towns within Pittsburg County as well as the population for those who live outside of city limits but within the county. The coordinates are for the city centers identified from Google Earth.