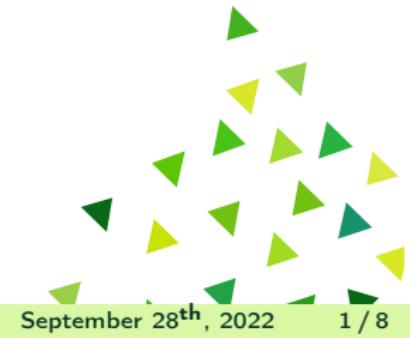
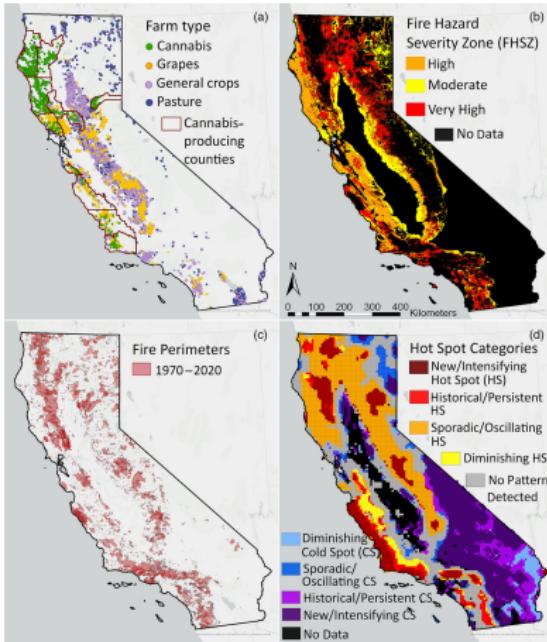


Cannabis Data Science #85

September 28th, 2022



Cannabis Commerce



Dillis, Christopher, Butsic, Van, Moanga, Diana, Parker-Shames, Phoebe, Wartenberg, Ariani, and Grantham, Theodore E.. 2022. "The Threat of Wildfire is Unique to Cannabis among Agricultural Sectors in California." *Ecosphere* 13(9): e4205.

<https://doi.org/10.1002/ecs2.4205>

Literature Review

Topics:

- California prepares for interstate cannabis commerce.
- Kentucky congress members push for FDA CBD oversight.
- Δ-8 THC, novel cannabinoids, concentrates, additives.



1800 NW Main St, Portland, OR 97209

888-253-3811 | www.greenleaflab.com

Bubba Kush

Sample ID: G100406-03

Matrix: Industrial Hemp

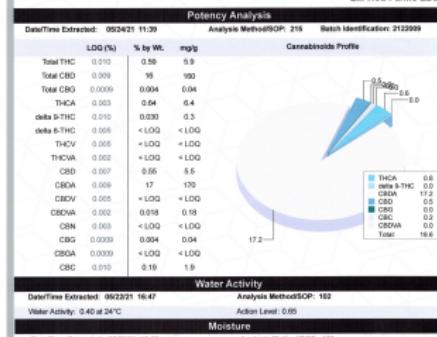
Test ID: 5014201

Source ID:

Date Sampled: 05/21/21

Date Accepted: 05/21/21

Quality Control Testing Official Report



KCA Laboratories

222 1/2 Wall Street

Nicholasville, KY 40356

KCA Lab # P-2008

Unit 1000 QP

Sativa - Tangie

Sample ID: 5a-220507-9322

Batch ID: 5a-220507-9322

Type: Finished Product

Matrix: Plant - Fertilized / Sprayed

Unit: Milligram

Received: 05/03/2022

Completed: 05/04/2022

Last Update: 05/04/2022

Certificate of Analysis

1 of 1

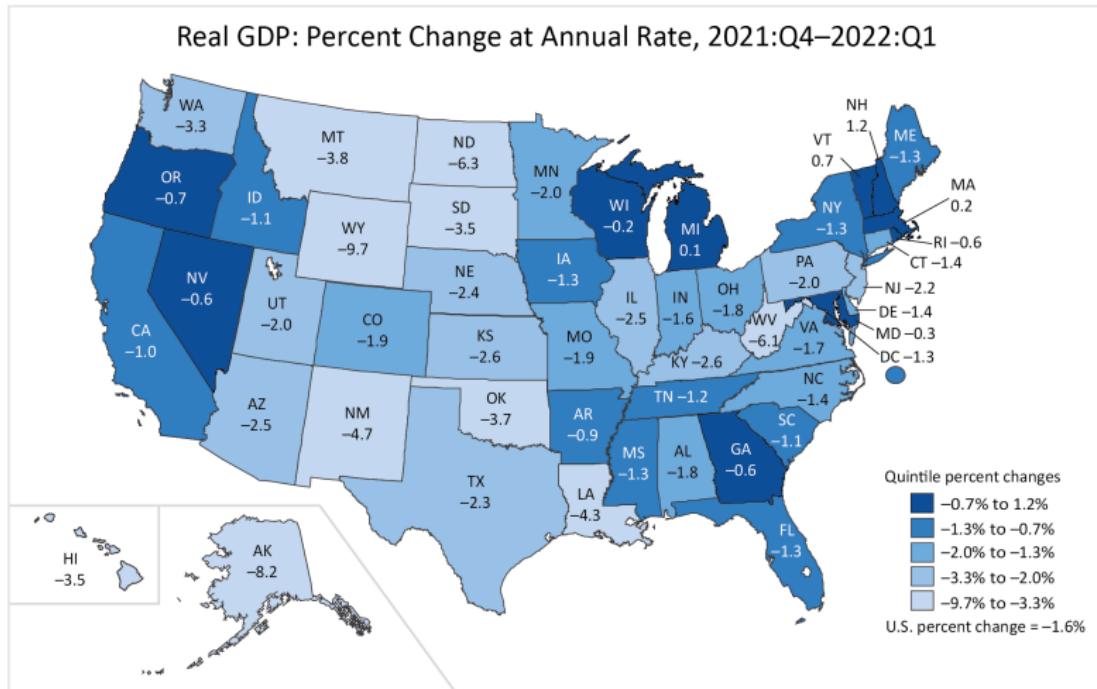
Summary

Test	Result	Status
Cannabis	Passed	Passed
Date Tested	05/04/2022	
Moisture Content	Not Tested	
Foreign Matter	Not Tested	
Interstate Standard Normalization	Yes	

Cannabinoids by HPLC-PDA, LC-MS/MS, and/or GC-MS/MS

Analyte	LOD (mg/g)	LOQ (mg/g)	Result (mg/g)	Result (mg/g)
CBC	0.000001	0.000008	0.070	1.76
CBG	0.000001	0.000008	ND	ND
CBGV	0.000001	0.000008	ND	ND
CBDA	0.000001	0.000008	ND	ND
CBDAVA	0.000001	0.000008	ND	ND
CBCOV	0.000001	0.000008	ND	ND
CBN	0.000001	0.000008	ND	ND
CBGVA	0.000001	0.000008	ND	ND
CBL	0.000001	0.000008	ND	ND
CBR	0.000001	0.000008	ND	ND
CBRA	0.000001	0.000008	ND	ND
CBT	0.000001	0.000008	ND	ND
Δ-9-THC	0.000001	0.000008	ND	ND
Δ-8-THC	0.000001	0.000008	ND	ND
Δ-9-THCA	0.000001	0.000008	ND	ND
Δ-8-THCA	0.000001	0.000008	ND	ND
Δ-9-THCV	0.000001	0.000008	ND	ND
Δ-8-THCV	0.000001	0.000008	ND	ND

Literature Review

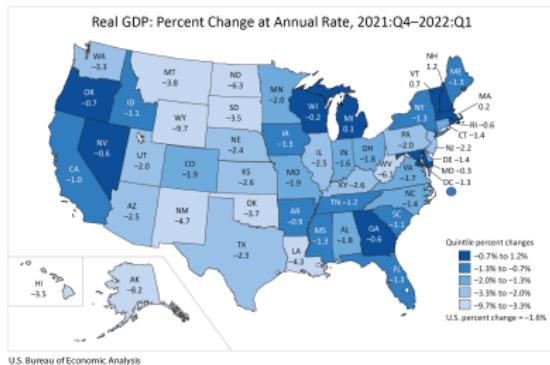


U.S. Bureau of Economic Analysis

Research Question

Hypotheses

- Is there a relationship between a state permitting adult-use cannabis and its GDP?
- If a state permits adult-use, does the number of retailers per capita affect its GDP?



Methodology

Assuming the following model,

$$GDP_s = \beta_0 + \beta_1 D_s + \beta_2 X_s + \mu_s,$$

where

$$D_s = \begin{cases} 0 & \text{if adult-use is not permitted,} \\ 1 & \text{if adult-use is permitted,} \end{cases}$$

X_s is number of retailers per capita in state s ,

we can interpret:

- β_1 as the expected change in GDP from a state permitting adult-use cannabis,
- β_2 as the expected change in GDP from an increase in 1 retailer per capita (100,000 people).

Data

States where adult-use is permitted:

- Alaska
- Arizona
- Colorado
- Connecticut
- Illinois
- Maine
- Massachusetts
- Michigan
- Montana
- New Mexico
- Nevada
- New Jersey
- Oregon
- Rhode Island
- Vermont
- Washington

States where adult-use will soon be permitted:

- New York
- Virginia
- D.C.?



Thank you for coming.

Insight of the Day

- The squeaky wheel gets the oil!

What is on your mind for next week?