

HEMP REPORT 2020



Nevada Department
of Agriculture

Introduction

The following report details the data collected by the Nevada Department of Agriculture (NDA) Hemp Program throughout the 2020 production year. Hemp regulation in Nevada has undergone changes since the hemp pilot program was initiated by the [2014 Farm Bill](#). On Oct. 31, 2019 the United States Department of Agriculture (USDA) released the [Interim Final Rules](#) which clarified the role of State and Tribal programs in the regulatory oversight of hemp production in the U.S. All hemp was required to be produced via registration with a USDA approved State or Tribal program. The USDA released the [Final Rules](#) on Jan. 19, 2021. The [Final Rules](#) addressed industry concerns with the [Interim Final Rules](#). This report contains data and activities of the NDA Hemp Program conducted in 2020, prior to the formal release of the [Final Rules](#). All states and Tribes interested in maintaining regulatory authority are required to submit a hemp program plan to the USDA for review. In 2020, the NDA submitted Nevada's state hemp plan to the USDA on four different occasions to participate in discussion and revision. The [Nevada State Hemp Plan](#) was approved on May 28, 2021.

Methodology: Sampling

In 2020, NDA staff conducted all hemp sampling inspections for Nevada's hemp crops in the method used throughout 2019. All hemp crops were required to be harvested within 15 days of the sample collection date. Growers were responsible for notifying the NDA of the need for inspection with ample time for the inspection to be scheduled 15 days prior to harvest.

Per [NRS 557.270](#), all hemp crops were subject to sampling prior to harvest. Crops harvested prior to NDA sampling would be subject to an automatic testing failure and may have been detained, seized or embargoed by the Department.

NDA hemp inspections in 2020 were conducted in the following way:

An NDA inspector collected randomized clippings from the top six inches of flowering plant material from 10 plants or 20% of the total hemp plants per variety/lot. The random 10 clippings or clippings from 20% of the variety are returned to the laboratory for processing. Equal parts flower to stem/leaf material with ratios between one and one (1:1) with 5% variability were measured by the NDA inspector for each sample. Excess plant material was disposed. The samples were then sealed and delivered to the NDA's Chemistry Laboratory for analysis.

Methodology: Testing methods

Per NRS 557.270, hemp samples must be analyzed to determine whether tetrahydrocannabinol (THC) concentrations exceed the 0.3% THC concentrations established by federal law. The 2018 Federal Farm Bill defines hemp in the following way: "(1) HEMP. — The term "hemp" means the plant *Cannabis sativa L.* and any part of that plant, including the seeds thereof and all derivatives, extracts, cannabinoids, isomers, acids, salts, and salts of isomers, whether growing or not, with a delta-9 tetrahydrocannabinol concentration of not more than 0.3 percent on a dry weight basis."

Federal law requires a post decarboxylation or similarly reliable method of testing, therefore the NDA utilized analytical testing of samples for delta-9 tetrahydrocannabinol concentration levels through post-decarboxylation or other similarly reliable methods.

The NDA hemp compliance testing in 2020 was conducted using High Performance Liquid Chromatography (HPLC) to detect total potential THC of the hemp crops. HPLC is a USDA approved testing method, as it meets the requirements of the [Agriculture Improvement Act of 2018](#) to account for the conversion of THC-A to THC. In 2019, hemp samples less than 0.34% were compliant. On July 23, 2020 the NDA Chemistry Laboratory reassessed the Measurement of Uncertainty (MU) and determined a new compliance threshold of 0.36% total potential THC. All samples collected after July 23, 2020 were compliant if containing total potential THC less than 0.36%.

Hemp samples that tested below 0.34% before July 23, 2020 and below 0.36% after July 23, 2020 were deemed compliant and a Report of Analysis (ROA) clearly identifying the testing results was provided to the associated grower. Any hemp crops that tested above 0.34% total potential THC before July 23, 2020 and above 0.36% total potential THC after July 23, 2020 were immediately retested by the NDA Chemistry Laboratory to confirm the results. The failed sample was reported to NDA program staff for coordination with the grower to schedule a re-sample of the hemp variety, if the grower desired a re-sample, and the crop had not been harvested (per [Nevada Senate Bill 209](#)). Upon a second failed sample analysis, crops were scheduled for disposal.

Data sources

Data for this report was obtained through 2020 hemp applications, inspections, chemistry analysis reports, and certificate holder reports such as Hemp Harvest Reports.

Data Analysis: Quantity of hemp samples per variety

The NDA recorded 122 different hemp varieties grown in Nevada in 2020, which is a decrease from the 144 varieties grown in Nevada in 2019, as identified and reported by the growers. The following chart(s) demonstrate the different hemp varieties and the number of samples collected for each variety.

Figure 1: Number of samples per variety

Variety	# Samples
5xBx-18	1
Abacus	1
ACDC	3
Acid Rock	1
Alpha	1
Alpha CBG	1
Apollo CBG	2
Auto Red	1
Autoflower	1
Berry Blossom	17
Berry Breeze	1
BHV1	1
Black Label	1
Black Label CBG	1
Black Mamba	1
Blue Hawaii	1
Blueberry CBD	1
Baox	5
Brutus	2
Bubba Kush	2
Buddha's Hand	1
Carson Berry	1
CBD Doctor	1
CBG	5
CBG Stem Cell	1
CBG White	1
Chardonay	1
Cherry Blossom	7
Cherry Blossom #4	1
Cherry Crème Brulee	1
Cherry Wine	20
Cherry Wine F1	1
Cherry Wine S1	2
Chuchill	1
Chuchill Cherry	1
Crawfords White CBG	1
Cucumber Diesel	1
CW	1
Early Bird	5
Eclipse	1
Electra	1

Variety	# Samples
Fascination	2
First Lady	1
Frosted Lime	2
Goliath	2
Gonzo	1
Grain	1
Green Day	1
Green Mango	1
Greenwave	2
H2C	1
H5	3
H5 CBG	3
H5 CBG BM	1
Hawaiian	4
Hawaiian Haze	8
High Lonesome Gold	1
Hot Blonde	4
Hot Blond/Blue	
Hawaii	1
HRT1	1
Hula Girl	1
Kush	1
La Crème	7
Lavendar CBG	1
Lemon Cream Delight	1
Lemon Cream Diesel	1
Lifter	14
Magic Bullet	4
Matterhorn	1
Matterhorn CBG	3
Maverik	1
Merloax	2
Merlot	5
Mixed Variety	2
Og CBD	1
Park Dale Boutique	1
Pure CBG	1
Purple Lift	1
Queen Dream	2
Quick Spectrum	1
Red Bordeaux	3
Rocket Fuel	3

Variety	# Samples
Rocky Mountain Berry	1
Rogue 1	3
Sangria S1	1
Scarlet	1
Sisters	1
Sour G	2
Sour Space Candy	3
Souvre	2
Space Candy	1
Special Sauce	4
Special Sauce CBD	1
Spectrum	4
Stem Cell	2
Stem Cell CBG	1
Stormy Daniels	5
Super Rich	4
Super Sativa	2
Supreme	1
Suver	1
Suver Haze	4
Sweet Berry Wine	5
Sweetened	2
T1	11
T1 Estelle	2
T1G	1
Tahoe	1
Tahoe Kush	3
Tahoe/Trump	1
Tango	1
T-Cherry	1
TCW	1
The White	1
The Wife	3
Trump	6
Trophy Wife	5
Trump 1	2
White CBG	11
Wife	3
Yuppie Gold	2
Zepplin	1
Total Samples	305

Data analysis: Hemp sample results

In 2020 the NDA collected a total of 305 hemp samples in Nevada compared to the 430 hemp samples collected in 2019. Of the 305 hemp samples in 2020, only 24 samples tested above the compliance standard. The NDA compliance standard was established as 0.34% total potential THC until the NDA's Measurement of Uncertainty (MU) was re-assessed in July 2020. Every sample tested after July 23, 2020 was held to the new passing standard of 0.36% total potential THC. The non-compliant samples equated to a crop failure rate of 7.9% for Nevada crops in 2020, which is an improvement from the 13.49% failure rate of Nevada hemp crops in 2019. Figure 2 reflects samples collected by the NDA and the associated total THC results of that sample. Samples are in chronological order based on the date of the inspection.

Figure 2: 2020 hemp inspections

Sample Statistics		Inspection Statistics	
Total Samples Collected	305	Total Inspection Hours	72.00
Non-Compliant Samples	24	Total Driving Hours	222.13
Failure Rate	7.9%	Total Miles Traveled	12,008.22

Figure 3: 2020 Hemp crop test results

Test #	Date Sample Taken	Variety	Total Potential THC
20200102NB01	1/2/2020	Spectrum	0.292
20200102NB02	1/2/2020	Trump	0.291
20200102NB03	1/2/2020	Souvre	0.396
20200102NB04	1/2/2020	Hawaiian	0.38
20200102NB05	1/2/2020	Spectrum	0.345
20200102NB06	1/2/2020	Trump	0.403
20200102NB07	1/2/2020	Lifter	0.419
20200117LO01	1/17/2020	Cherry Wine	0.169
20200129LJ01	1/29/2020	Trump	0.133
20200203LJ01	2/3/2020	Hawaiian	0.306
20200203LJ02	2/3/2020	Trump	0.334
20200203LJ03	2/3/2020	Souvre	0.336
20200203LJ04*	2/3/2020	Lifter	0
20200204LJ01	2/4/2020	Cherry Wine	0.183
20200204LJ02	2/4/2020	Hawaiian	0.256
20200204LJ03	2/4/2020	Auto Red	0.138
20200204LJ04	2/4/2020	Hot Blond	0.203
20200204LJ05	2/4/2020	BHV1	0.113
20200205LJ01	2/5/2020	Cherry Blossom	0.283
20200210LJ01	2/10/2020	Lifter	0.275
20200211LJ01	2/11/2020	Cherry Wine	0.161
20200211LJ02	2/11/2020	T-1	0.169
20200218LJ01	2/18/2020	T-1	0.147
20200218LJ02	2/18/2020	Berry Blossom	0.286
20200218LJ03	2/18/2020	Berry Blossom	0.188
20200218LJ04	2/18/2020	Trophy Wife	0.28
2020218AB01	2/18/2020	ACDC	0.117
2020218AB02	2/18/2020	Rogue1	0.179

Test #	Date Sample Taken	Variety	Total Potential THC
2020218AB03	2/18/2020	Super Sativa	0.19
2020218AB04	2/18/2020	Cherry Wine	0.151
2020218AB05	2/18/2020	Hawaiian Haze	0.164
2020218AB06	2/18/2020	Churchill Cherry	0.164
2020218AB07	2/18/2020	Trophy Wife	0.152
2020218AB08	2/18/2020	Berry Blossom	0.251
20200220LJ01	2/20/2020	Trump	0.257
2020226AB01	2/26/2020	Sweet Berry Wine	0.132
2020226AB02	2/26/2020	Tahoe Kush	0.141
2020226AB03	2/26/2020	Wife	0.128
2020226AB04	2/26/2020	Magic Bullet	0.104
20200302LJ01	3/2/2020	Cherry Wine	0.229
20200302LJ02	3/2/2020	HRT1	0.175
20200318NB01	3/18/2020	Apollo CBG	0.055
20200318NB02	3/18/2020	Berry Blossom	0.297
20200318NB03	3/18/2020	Early Bird	0.294
20200325AB01	3/25/2020	Stormy Daniels	0.227
20200325AB02	3/25/2020	Acid Rock	0.149
20200407AB01	4/7/2020	Berry Blossom	0.349
20200413AB01	4/13/2020	Super Rich (2020)	0.238
20200413AB02	4/13/2020	Super Rich (2019)	1.723
20200413AB03	4/13/2020	Cherry Wine S1 (2020)	0.333
20200413AB04	4/13/2020	Cherry Wine S1 (2019)	0.278
20200413AB05	4/13/2020	Cherry Wine F1	0.314
20200413AB06	4/13/2020	Berry Blossom	1.405
20200413AB07	4/13/2020	Merlot (2020)	1.384
20200413AB08	4/13/2020	Boax (2020)	0.854
20200413AB09	4/13/2020	Merlot (2019)	0.301
20200413AB10	4/13/2020	Boax (2019)	1.546
20200413AB11	4/13/2020	Cherry Blossom (2020)	0.322
20200413AB12	4/13/2020	Cherry Blossom (2019)	0.283
20200408NB01	4/8/2020	Berry Blossom	0.284
20200429AB01	4/29/2020	Super Rich (2019 Row 1)	0.528
20200429AB02	4/29/2020	Super Rich (2019 Row 2)	0.319
20200429AB03	4/29/2020	Merlot (2020 GH A)	0.702
20200429AB04	4/29/2020	Merlot (2020 GH B)	0.316
20200429AB05	4/29/2020	Baox (2020)	0.921
20200429AB06	4/29/2020	Baox (2019)	1.191
20200427NB01	4/27/2020	Bubba Kush	0.317
20200514AB01	5/14/2020	T1G	0.121
20200609NB01	6/9/2020	Berry Blossom	0.32
20200609NB02	6/9/2020	Early Bird	0.312
The NDA's Measurement of Uncertainty (MU) was re-assessed. Every sample after 7/23/2020 was held to the new passing standard of 0.36% Total Potential THC.			
20200804LJ04	8/4/2020	Early Bird	0.213
20200804LJ01	8/4/2020	Suver Haze	0.179
20200804LJ02	8/4/2020	Lifter	0.161
20200804LJ03	8/4/2020	Special Sauce	0.189

Test #	Date Sample Taken	Variety	Total Potential THC
20200812AB01	8/12/2020	Sour Space Candy	0.121
20200812AB02	8/12/2020	Hawaiian Haze	0.0095
20200812AB03	8/12/2020	Lifter	0.125
20200812AB04	8/12/2020	CBG	0.008
20200812AB05	8/12/2020	Special Sauce	0.048
20200820AB01	8/20/2020	The Wife	0.357
20200820AB02	8/20/2020	Magic Bullet	0.321
20200820AB03	8/20/2020	Sweet Berry Wine	0.291
20200811LJ01	8/11/2020	La Crème	0.063
20200814LJ01	8/14/2020	Lifter	0.328
20200825AB01	8/25/2020	The Wife	0
20200826AB01	8/26/2020	Cherry Wine	0.129
20200826AB02	8/26/2020	Hot Blonde	0.224
20200826AB03	8/26/2020	ACDC	0.102
20200826AB04	8/26/2020	Hawaiian	0.154
20200901AB01	9/1/2020	CBG White	0.021
20200901AB02	9/1/2020	CBG Stem Cell	0.029
20200901AB03	9/1/2020	Merlot	0.095
20200901AB04	9/1/2020	Carson Berry	0.205
20200901AB05	9/1/2020	Lifter	0.17
20200901AB06	9/1/2020	Suver	0.221
20200901AB07	9/1/2020	Hawaiian Haze	0.164
20200901AB08	9/1/2020	Sour Space Candy	0.215
20200901AB09	9/1/2020	Maverik	0.183
20200901AB10	9/1/2020	Berry Blossom	0.342
20200902AB01	9/2/2020	H5	0.029
20200902AB02	9/2/2020	La Crème	0.056
20200902AB03	9/2/2020	H5	0.053
20200902AB04	9/2/2020	La Crème	0.268
20200902AB05	9/2/2020	Black Label	0.526
20200902AB06	9/2/2020	La Crema	0.105
20200826LJ01	8/26/2020	Early Bird	0.253
20200826LJ02	8/26/2020	Early Bird	0.139
20200908LP01	9/8/2020	Space Candy	0.188
20200908LP02	9/8/2020	Hawaiian Haze	0.23
20200908LP03	9/8/2020	Lifter	0.222
20200908LP04	9/8/2020	Suver Haze	0.292
20200908LP05	9/8/2020	White CBG	0.028
20200908LP11	9/8/2020	Autoflower	0.177
20200908LP06	9/8/2020	White CBG	0.034
20200908LP07	9/8/2020	Special Sauce	0.249
20200908LP08	9/8/2020	Stem Cell	0.025
20200908LP09	9/8/2020	Sour G	0.051
20200908LP10	9/8/2020	Lifter	0.182
20200902LJ01	9/2/2020	Matterhorn CBG	0.007
20200902LJ02	9/2/2020	La Crème (Field 3)	0.043
20200902LJ03	9/2/2020	La Crème (Field 4)	0.032
20200903LJ01	9/3/2020	T-Cherry	0.117

Test #	Date Sample Taken	Variety	Total Potential THC
20200903LJ02	9/3/2020	T-1	0.304
20200903LJ03	9/3/2020	TCW	0.133
20200903LJ04	9/3/2020	CW	0.226
20200909LJ02	9/9/2020	White CBG	0.047
20200909LJ03	9/9/2020	Cherry Blossom	0.216
20200909LJ04	9/9/2020	Trump 1	0.154
20200909LJ05	9/9/2020	Fascination	0.171
20200909LJ06	9/9/2020	Yuppy Gold	0.183
20200910LJ02	9/10/2020	T-1	0.146
20200910LJ03	9/10/2020	T-1	0.161
20200910LJ04	9/10/2020	T-1	0.152
20200910LJ05	9/10/2020	T-1	0.108
20200909LJ01	9/9/2020	High Lonesome Gold	0.134
20200908LJ01	9/8/2020	Red Bordeaux	0.217
20200908LJ02	9/8/2020	Matterhorn	0.014
20200914LJ01	9/14/2020	Matterhorn CBG	0.057
20200914LJ02	9/14/2020	Black Mamba	0.159
20200915LP01	9/15/2020	Stormy Daniels	0.229
20200915LP02	9/15/2020	White CBG	0.057
20200914CM01	9/14/2020	CBG	0.025
20200914CM02	9/14/2020	CBG	0.08
20200915AJ02	9/15/2020	Churchill	0.197
20200915AJ01	9/15/2020	Lifter	0.051
20200915AJ03	9/15/2020	Sweet Berry Wine	0.181
20200915AJ04	9/15/2020	Magic Bullet	0.127
20200915AJ05	9/15/2020	Tahoe Kush	0.16
20200915AJ06	9/15/2020	Cherry Wine	0.154
20200915AJ07	9/15/2020	The Rogue one	0.174
20200915AJ08	9/15/2020	Berry Blossom	0.206
20200911AJ01	9/11/2020	H2C	0.35
20200911AJ02	9/11/2020	Hawaiian Haze	0.174
20200911AJ03	9/11/2020	Special Sauce	0.219
20200911AJ04	9/11/2020	Lifter	0.188
20200911AJ05	9/11/2020	Kush	0.22
20200911AJ06	9/11/2020	Crawfords White CBG	0.037
20200911AJ07	9/11/2020	Goliath	0.103
20200911AJ08	9/11/2020	Apollo CBG	0.062
20200910LJ01	9/10/2020	Trump 1	0.207
20200922LP01	9/22/2020	Alpha	0.073
20200922LP02	9/22/2020	H5	0.111
20200922AB01	9/22/2020	5xBx-18	0.089
20200922AB02	9/22/2020	Cherry Wine	0.234
20200921LP01	9/21/2020	T1	0.19
20200921AB01	9/21/2020	Stormy Daniels	0.168
20200921AB02	9/21/2020	Goliath	0.101
20200921AB03	9/21/2020	Quick Spectrum	0.271
20200921AB04	9/21/2020	White CBG	0.047
20200921AB05	9/21/2020	Matterhorn CBG	0.015

Test #	Date Sample Taken	Variety	Total Potential THC
20200921AB06	9/21/2020	Eclipse	0.313
20200921AB07	9/21/2020	Hot Blonde	0.202
20200921AB08	9/21/2020	Queen Dream	0.198
20200921AB09	9/21/2020	Sour G	0.033
20200921AB10	9/21/2020	Stem Cell	0.059
20200921AB11	9/21/2020	White CBG	0.05
20200921AB12	9/21/2020	Rocket Fuel	0.193
20200921AB13	9/21/2020	Rocket Fuel	0.18
20200921AB14	9/21/2020	Rocket Fuel	0.192
20200923LP01	9/23/2020	White CBG	0.055
20200923LP02	9/23/2020	Stormy Daniels	0.193
20200929AB01	9/29/2020	Mixed Variety	1.411
20200928LP05	9/28/2020	Frosted Lime	0.194
20200928LP01	9/28/2020	Tahoe	0.175
20200928LP02	9/28/2020	Berry Breeze	0.274
20200928LP03	9/28/2020	The Wife	0.314
20200928LP04	9/28/2020	Cherry Wine	0.224
20200904LJ01	9/4/2020	CBG	0.114
20200917LJ01	9/17/2020	Cherry Wine	0.198
20200917LJ02	9/17/2020	White CBG	0.116
20200917LJ03	9/17/2020	Lifter	0.399
20200917LJ04	9/17/2020	Hawaiian Haze	0.357
20200917LJ05	9/17/2020	Sour Space Candy	0.333
20200917LJ06	9/17/2020	Suver Haze	0.341
20200918LJ01	9/18/2020	Cherry Wine	0.214
20200921LJ02	9/21/2020	White CBG	0.077
20200924LJ01	9/24/2020	Frosted Lime	0.152
20200918LJ02	9/18/2020	Cherry Wine	0.236
20200928LJ01	9/28/2020	The White	0.115
20200928LJ02	9/28/2020	Brutis	0.183
20200923LJ01	9/23/2020	White CBG	0.096
20200923LJ02	9/23/2020	Special Sauce CBD	0.169
20200922LJ01	9/22/2020	Berry Blossom	0.121
20200922LJ02	9/22/2020	Berry Blossom	0.121
20200922LJ03	9/22/2020	Trophy Wife	0.14
20200922LJ04	9/22/2020	Berry Blossom	0.19
20200922LJ05	9/22/2020	Red Bordeaux	0.137
20200922LJ06	9/22/2020	Red Bordeaux	0.11
20200922LJ07	9/22/2020	Berry Blossom	0.15
20200928LJ03	9/28/2020	CBG	0.116
20200928LJ04	9/28/2020	Hawaiian Haze	0.341
20200921LJ01	9/21/2020	Spectrum	0.218
20201001AB01	10/1/2020	T1	0.233
20201001AB02	10/1/2020	Berry Blossom	0.353
20201001AB03	10/1/2020	Cherry Wine	0.323
20201001AB04	10/1/2020	Green Day	0.302
20201001AB05	10/1/2020	Trophy Wife	0.28
20201001AB06	10/1/2020	Sweet Berry Wine	0.24

Test #	Date Sample Taken	Variety	Total Potential THC
20201001AB07	10/1/2020	Greenwave	0.321
20201001AB08	10/1/2020	Tango	0.193
20201001AB09	10/1/2020	Cucumber Diesel	0.184
20201001AB10	10/1/2020	Cherry Crème Brulee	0.256
20201001AB11	10/1/2020	Scarlet	0.281
20201001AB12	10/1/2020	Pure CBG	0.021
20201001AB13	10/1/2020	Abacus	0.318
20201001AB14	10/1/2020	T1	0.264
20201001AB15	10/1/2020	Greenwave	0.345
20201001AB16	10/1/2020	Super Sativa	0.355
20201001AB17	10/1/2020	Chardonay	0.162
20201001AB18	10/1/2020	Suver Haze	0.359
20200923CM01	9/23/2020	Lifter	0.256
20200923CM02	9/23/2020	Cherry Wine	0.223
20200930LP01	9/30/2020	H5 CBG BM	0.059
20200923CM03	9/23/2020	Lavender CBG	0.083
20200923CM04	9/23/2020	Merloax	1.323
20200924CM01	9/24/2020	Tahoe Kush	0.093
20200924CM02	9/24/2020	Wife	0.207
20200924CM03	9/24/2020	Magic Bullet	0.172
20200924CM04	9/24/2020	Hawaiian Haze	0.227
20201006LP01	10/6/2020	Cherry Wine	0.199
20201007AB01	10/7/2020	Park Dale Boutique	0.38
20201007AB02	10/7/2020	T1	0.264
20201007AB03	10/7/2020	First Lady	0.27
20201007AB04	10/7/2020	Black Label CBG	0.315
20201008LP01	10/8/2020	Cherry Blossom	0.26
20201008LP02	10/8/2020	Queen Dream	0.31
20201007LP01	10/7/2020	H5 CBG	0.076
20201007LP02	10/7/2020	Alpha CBG	0.29
20201007LP03	10/7/2020	Yuppie Gold	0.295
20201007LP04	10/7/2020	Fascination	0.324
20201012AB01	10/12/2020	Merloax	0.192
20201012MB01	10/12/2020	Sangria S1	0.215
20200930LJ03	9/30/2020	Cherry Blossom	0.353
20200930LJ04	9/30/2020	Cherry Blossom	0.258
20200930LJ01	9/30/2020	Lemon Cream Diesel	4.517
20201001LJ01	10/1/2020	White CBG	0.068
20201001LJ02	10/1/2020	Stem Cell CBG	0.068
20201008LJ01	10/8/2020	Bubba Kush	0.374
20201008LJ02	10/8/2020	H5 CBG	0.191
20201008LJ03	10/8/2020	Og CBD	6.856
20201008LJ04	10/8/2020	Blueberry CBD	0.33
20201008LJ05	10/8/2020	Electra	0.431
20200930LJ02	9/30/2020	Cherry Wine	0.265
20201008LJ06	10/8/2020	T1 Estelle	0.254
20201008LJ07	10/8/2020	T1 Estelle	0.248
20201008LJ08	10/8/2020	Lemon Cream Delight	2.62

Test #	Date Sample Taken	Variety	Total Potential THC
20201008LJ09	10/8/2020	Cherry Wine	0.302
20201013LP01	10/13/2020	Stormy Daniels	0.271
20201013LP02	10/13/2020	Berry Blossom	0.343
20201020LP01	10/20/2020	Tahoe/Trump	0.236
20201020LP02	10/20/2020	Cherry Wine	0.179
20201020LP03	10/20/2020	Rogue 1	0.245
20201020LP04	10/20/2020	Trophy Wife	0.219
20201020LP05	10/20/2020	Sweet Berry Wine	0.132
20201029LJ01	10/29/2020	Cherry Wine	0.177
20201029LJ02	10/29/2020	Sweetened	0.21
20201029LJ03	10/29/2020	Lifter	0.107
20201029LJ04	10/29/2020	Brutus	0.116
20201029LJ05	10/29/2020	ACDC	0.254
20201029LJ06	10/29/2020	Blue Hawaii	0.285
20201029LJ07	10/29/2020	Grain	0.176
20201029LJ08	10/29/2020	Sisters	0.19
20201029LJ09	10/29/2020	Hot Blond/Blue Hawaii	0.188
20201029LJ10	10/29/2020	Cherry Wine Green	0.147
20201029LJ11	10/29/2020	Hot Blond	0.32
20201029LJ12	10/29/2020	La Crème	0.2
20201021SS01	10/21/2020	Cherry Blossom #4	0.117
20201102LP01	11/2/2020	Mixed Variety	0.91
20201028LP01	10/28/2020	H5 CBG	0.273
20201105LJ01	11/5/2020	Buddha's Hand	0.2
20201105LJ02	11/5/2020	Gonzo	0.22
20201210SS01	12/10/2020	Berry Blossom	0.31
20201201LJ01	12/1/2020	Cherry Wine	0.321
20201201LJ02	12/1/2020	CBD Doctor	0.261
20201201LJ03	12/1/2020	Green Mango	0.156
20201201LJ04	12/1/2020	Rocky Mountain Berry	0.254
20201215LJ01	12/15/2020	Trump	0.232
20201215LJ02	12/15/2020	Supreme	0.359
20201215LJ03	12/15/2020	Hula Girl	0.32
20201215LJ04	12/15/2020	Purple Lift	0.16
20201215LJ05	12/15/2020	Sweetened	0.192
20201215LJ06	12/15/2020	Spectrum	0.219
20201215LJ07	12/15/2020	Boax	0.224
20201215LJ08	12/15/2020	Wife	0.22
20201215LJ09	12/15/2020	Zepplin	0.258

Data analysis: 2020 non-compliant hemp varieties

Below, Figure 4 reflects the different hemp varieties in 2020 that produced samples exceeding the compliance standard, the number of samples collected for each variety, the number of samples that were compliant and non-compliant of each variety, and the rate at which each variety tested above compliance.

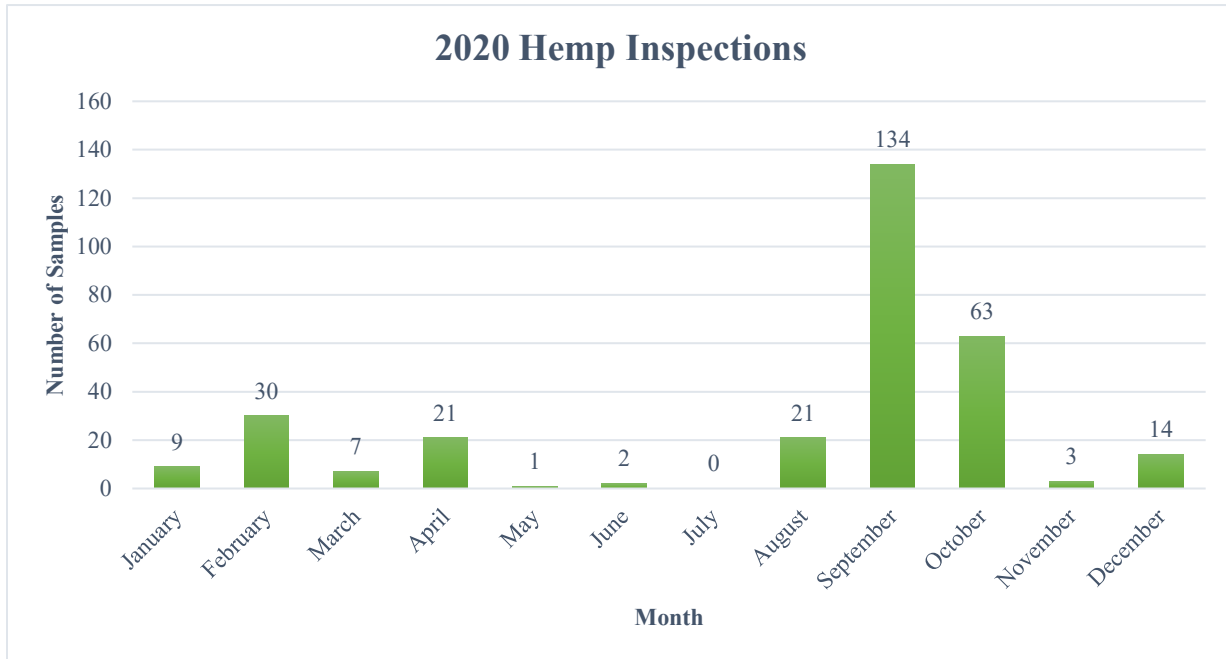
Figure 4: 2020 hemp varieties with non-compliant samples

Variety with Non-Compliant Samples	Total Samples Collected Per Variety	Total Compliant Samples Per Variety	Total Non-Compliant Samples Per Variety	Percentage of Non-Compliance
Baox	5	1	4	80%
Berry Blossom	17	16	1	6%
Black Label	1	0	1	100%
Bubba Kush	2	1	1	50%
Electra	1	0	1	100%
Hawaiian	4	3	1	25%
Lemon Cream Delight	1	0	1	100%
Lemon Cream Diesel	1	0	1	100%
Lifter	14	12	2	14%
Merloax	2	1	1	50%
Merlot	5	3	2	40%
Mixed Variety	2	0	2	100%
Og CBD	1	0	1	100%
Park Dale Boutique	1	0	1	100%
Souvre	2	1	1	50%
Super Rich	4	2	2	50%
Trump	6	5	1	17%

Data analysis: 2020 peak harvest season

In 2020 the NDA experienced the highest number of inspections from September to the end of October. This data reflects a similar peak harvest season to 2019. Compared to 2019, 2020 had increased inspections from January to April. This increase of inspections at the beginning of the year suggests more growers were producing within greenhouses and could harvest in the colder season. Figures 5 and 6 demonstrates how many NDA hemp inspections were conducted each month of 2020.

Figure 5: 2020 hemp sample inspections



**All samples were collected two weeks prior to harvest. Harvest dates are at the discretion of the grower and do not reflect the age of the plant at the date of harvest*

Figure 6: 2020 hemp sample inspections per month

Month	Number of Samples
January	9
February	30
March	7
April	21
May	1
June	2
July	0
August	21
September	134
October	63
November	3
December	14