



ARKANSAS DEPARTMENT OF AGRICULTURE PLANT INDUSTRIES DIVISION

Hemp Research Licensing Program Summary of Varieties – 2021 Growing Season

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Approved license holders should review this document before purchasing seed or plant propagules for the 2021 growing season. This document provides important guidance for licensed growers based on past THC laboratory test results from hemp crops grown in Arkansas. Provided here is a list of *Varieties of Concern*, as well as all other varieties that have been grown and tested in Arkansas in the past two (2) years. Any variety or strain of hemp not listed in this document requires the submission of the *Domestic Seed/Propagule Request Form* and pre-approval from the Department before it can be grown in Arkansas.

Hemp is defined in state and federal law as “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 [THC] concentration of not more than 0.3 percent on a dry weight basis.” The measurement of the THC concentration includes both delta-9 THCa and delta-9 THC (often referred to as Total THC).

Hemp Program Rules, Section 1(A) provides the following definitions:

- (3) **“Approved cultivar”** means any variety of industrial hemp designated by the Arkansas State Plant Board in a published list and may be amended from time to time.
- (32) **“Prohibited Variety”** means a variety or strain of cannabis excluded from the Department’s Industrial Hemp Research Program.
- (43) **“Variety of Concern”** means any variety of hemp in the Program that tests above 0.3% total delta-9-THC in one (1) or more pre-harvest samples from diverse locations and production conditions. A hemp variety designated as a “variety of concern” may be subject to restrictions and additional testing. Materials testing at a total delta-9-THC concentration above 0.3 percent may be subject to law enforcement action.

Approximately 90% of all hemp produced in Arkansas is for phytocannabinoid or floral production. Phytocannabinoids are a broad class of chemicals produced primarily in the floral material of the plant; these include THC and other compounds of nutraceutical interest such as Cannabidiol (CBD) or Cannabigerol (CBG). Current scientific research suggests that phytocannabinoids have proportional relationships. Therefore, as growers strive to increase the plant’s CBD or other phytocannabinoid production, there is concern about the potential increase of THC levels. The Department remains committed to managing its Program so that it produces hemp that meets the legal definition of “hemp” in Hemp Research Program Rules, Section 1(A)(14). To that end, the Department publishes this list to help hemp growers plan their future activities in the Hemp Program. ***Be advised that virtually all high-CBD strains of hemp have the potential to test above the legal limit of THC if allowed to fully mature.***



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For the 2021 Growing Season, in an effort to further collect research data from program licensees, the Department has decided to collect another season of THC testing data before prohibiting specific hemp varieties from being grown in Arkansas. If you wish to grow a variety that has been determined to be a *Variety of Concern*, proceed with caution, and make sure to monitor your THC levels regularly once your crop begins maturing.

Varieties of Concern (VOC)

The varieties or strains designated as a *Variety of Concern* (VOC) in the table below had at least one (1) THC test result above 0.300%. Growers who are considering whether to use these varieties in the future should exercise caution and remain aware of the Department's *Varieties of Concern* and *Prohibited Variety* designations. These varieties are at higher risk for exceeding the THC limit that could lead to the ordered destruction of the crop. These designations are subject to change.

Prohibited Varieties

The varieties or strains of cannabis designated as *Prohibited Varieties* in the table below have been prohibited from use in Arkansas. This designation was made in accordance with the *Procedures for Sampling & Testing Guidelines* which is incorporated by reference into Program Rules and outlined below. **However, for the 2021 growing season, the Department has decided to collect an additional season's worth of THC testing data before prohibiting certain varieties from being grown in Arkansas.**

A variety or strain of cannabis may be designated as a *Prohibited Variety* and excluded from the Arkansas Hemp Program if:

- a) more than 50% of Pre-Harvest Samples' test results for a given *Variety of Concern* are above 0.300% delta-9-THC,
- b) a Pre-Harvest test result is equal to or greater than 1% delta-9-THC, or
- c) a Post-Harvest test result is equal to or greater than 0.400% delta-9-THC.

For Varieties determined to be a Prohibited Variety:

- a) The Department may report the existence of a Prohibited Variety to relevant state and federal law enforcement agencies, and
- b) a License Holder must surrender without compensation any viable seed, live plants, stock plants, and all germplasm, shall be destroyed in the presence of a Department representative, law enforcement, or both.



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New Varieties

The varieties or strains designated as *NEW* in the table below have been approved for entry into the Arkansas Hemp Program based on an out-of-state certificate of analysis, but the variety has not yet been grown or tested in Arkansas. These varieties are eligible to be grown in Arkansas in 2021 without additional submissions of the *Domestic Seed/Propagule Request Form*, but their performance in Arkansas remains untested.

Additional Varieties/Strains

The varieties or strains listed in the table below without a designation produced acceptable THC test results and therefore are not currently designated as a *Prohibited Variety* or *Variety of Concern*.

SUMMARY OF VARIETIES LIST BEGINS ON NEXT PAGE



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SUMMARY OF VARIETIES - 2021

VARIETY NAME (ALPHABETICAL)	DEPT DESIGNATION	HEMP PRODUCTION TYPE	LAST YEAR TESTED IN AR	MAX % THC	# RESULTS ≤ 0.30% THC	# RESULTS 0.31% - 0.36% THC	# RESULTS ≥ 0.37% THC
ABACUS 2.0	NEW	FLORAL	NEW				
AUTO 1		FLORAL	2020	0.20%	2	0	0
AUTO CBG	VARIETY OF CONCERN	FLORAL	2020	0.50%	0	0	1
AUTO TSUNAMI	VARIETY OF CONCERN	FLORAL	2020	0.33%	2	1	0
AUTOPILOT	NEW	FLORAL	NEW				
AVW1	VARIETY OF CONCERN	FLORAL	2019	0.40%	0	0	1
AVW2	VARIETY OF CONCERN	FLORAL	2019	0.40%	0	0	1
BAOX	VARIETY OF CONCERN	FLORAL	2020	0.50%	4	0	1
BERRY BAUXOM	NEW	FLORAL	NEW				
BERRY BLOSSOM	VARIETY OF CONCERN	FLORAL	2020	0.54%	18	8	7
BHUTAN GLORY		FLORAL	2020	0.14%	1	0	0
BIALOBRZESKIE	NEW	FLORAL	NEW				
BLUE GENIUS	NEW	FLORAL	NEW				
BUBBA KUSH	VARIETY OF CONCERN	FLORAL	2020	0.49%	2	2	1
BUBBA'S EARLY REMEDY		FLORAL	2020	0.20%	1	0	0
BUDDHA'S HAND	VARIETY OF CONCERN	FLORAL	2020	0.43%	0	1	1
C4	VARIETY OF CONCERN	FLORAL	2019	1.25%	0	0	2
CANDY WINE	VARIETY OF CONCERN	FLORAL	2019	0.36%	1	1	0
CARMAGNOLA SELEZIONATA	NEW	FLORAL	NEW				

VARIETY NAME (ALPHABETICAL)	DEPT DESIGNATION	HEMP PRODUCTION TYPE	LAST YEAR TESTED IN AR	MAX % THC	# RESULTS ≤ 0.30% THC	# RESULTS 0.31% - 0.36% THC	# RESULTS ≥ 0.37% THC
CATS MEOW	VARIETY OF CONCERN	FLORAL	2020	0.35%	5	1	0
CBD HASH	NEW	FLORAL	NEW				
CBD HAZE	NEW	FLORAL	NEW				
CBG BERRY	NEW	FLORAL	NEW				
CHARDONNAY		FLORAL	2020	0.27%	3	0	0
CHERRY 2.0	VARIETY OF CONCERN	FLORAL	2020	2.18%	7	2	2
CHERRY ABACUS	NEW	FLORAL	NEW				
CHERRY BLONDE		FLORAL	2020	0.29%	1	0	0
CHERRY BLOSSOM	VARIETY OF CONCERN	FLORAL	2020	0.67%	38	13	9
CHERRY BOMB		FLORAL	2020	0.20%	1	0	0
CHERRY CHERRY	VARIETY OF CONCERN	FLORAL	2020	0.53%	1	0	2
CHERRY HAZER	VARIETY OF CONCERN	FLORAL	2020	0.37%	0	0	1
CHERRY TRUMP	VARIETY OF CONCERN	FLORAL	2019	0.78%	2	2	1
CHERRY WINE	VARIETY OF CONCERN	FLORAL	2020	0.60%	24	13	12
CHERRY WINE BX	VARIETY OF CONCERN	FLORAL	2020	0.36%	3	2	0
CINDERELLA STORY	VARIETY OF CONCERN	FLORAL	2020	0.32%	0	1	0
CLOUD BERRY	VARIETY OF CONCERN	FLORAL	2020	0.33%	0	1	0
CRS-1	NEW	FLORAL	NEW				
DIXIE DAYDREAM		FLORAL	2020	0.29%	1	0	0
DOUBLE DUTCH		FLORAL	2020	0.23%	3	0	0
EARLY NUEVE		FLORAL	2020	0.32%	1	0	0

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EIGHTY EIGHT		FLORAL	2020	0.15%	1	0	0
ELEKTRA	VARIETY OF CONCERN	FLORAL	2020	0.37%	0	1	1
FIBRANOVA	NEW	FLORAL	NEW				
FRANKLIN	VARIETY OF CONCERN	FLORAL	2020	0.34%	7	1	0
FROSTED BLISS	VARIETY OF CONCERN	FLORAL	2020	0.31%	0	1	0
HAWAIIAN HAZE	VARIETY OF CONCERN	FLORAL	2020	0.35%	5	1	0
HELENA	NEW	FLORAL	NEW				
HEMP CHERRY	VARIETY OF CONCERN	FLORAL	2019	0.50%	1	1	2
HEMPERIAL CBG II		FLORAL	2020	0.30%	1	0	0
HEMPRESS 2	VARIETY OF CONCERN	FLORAL	2020	1.74%	0	1	1
HENOLA		FLORAL	2020	0.13%	1	0	0
HOT BLONDE	VARIETY OF CONCERN	FLORAL	2020	0.47%	8	4	9
HS-2		FLORAL	2019	0.30%	1	0	0
LATE SUE	NEW	FLORAL	NEW				
LAVENDER CBG		FLORAL	2020	0.01%	1	0	0
LIBIDO		FLORAL	2020	0.19%	1	0	0
LIFTER	VARIETY OF CONCERN	FLORAL	2020	0.49%	0	3	4
MATTERHORN CBG		FLORAL	NEW				
MERLOT	VARIETY OF CONCERN	FLORAL	2020	0.82%	14	9	5
MIDWEST	VARIETY OF CONCERN	FLORAL	2020	0.50%	7	0	2
MOUNTAIN MANGO		FLORAL	2020	0.22%	4	0	0

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O - 2020 - CW - O11- F		FLORAL	2020	0.15%	1	0	0
OREGON CHERRY	VARIETY OF CONCERN	FLORAL	2019	0.74%	2	0	1
OTTO II		FLORAL	2019	0.26%	1	0	0
OZARK	VARIETY OF CONCERN	FLORAL	2020	0.38%	1	1	2
PAINTED LADY		FLORAL	2020	0.17%	1	0	0
PHC		FLORAL	2019	0.03%	1	0	0
PHYLOS		FLORAL	2019	0.04%	1	0	0
PUPLE COWBOY	NEW	FLORAL	NEW				
PURPLE EMPEROR		FLORAL	2020	0.02%	1	0	0
QUEEN DREAM	VARIETY OF CONCERN	FLORAL	2020	0.41%	10	4	2
RED BORDEAUX	VARIETY OF CONCERN	FLORAL	2020	0.35%	7	1	0
RED KROSS		FLORAL	2020	0.29%	4	0	0
RED ROBIN	VARIETY OF CONCERN	FLORAL	2020	0.35%	0	1	0
ROSELLA	VARIETY OF CONCERN	FLORAL	2020	0.42%	1	1	1
SAMURAI	VARIETY OF CONCERN	FIBER	2019	1.03%	0	0	1
SANGRIA S1		FLORAL	2020	0.20%	1	0	0
SOCATI AUTO		FLORAL	2020	0.21%	1	0	0
SOCATI T2	NEW	FLORAL	NEW				
SOUR SPACE CANDY	VARIETY OF CONCERN	FLORAL	2020	0.50%	3	1	2
SPECIAL SAUCE	VARIETY OF CONCERN	FLORAL	2020	0.40%	2	1	2
SPECTRUM 11	VARIETY OF CONCERN	FLORAL	2019	0.33%	0	1	0

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SPECTRUM X BUBBA	VARIETY OF CONCERN	FLORAL	2020	0.34%	0	1	0
STEM CELL CBG	VARIETY OF CONCERN	FLORAL	2020	0.39%	2	0	1
STORMY DANIELS	VARIETY OF CONCERN	FLORAL	2019	0.32%	5	1	0
STOUT	VARIETY OF CONCERN	FLORAL	2020	0.40%	7	2	1
STRAY KAT	VARIETY OF CONCERN	FLORAL	2020	0.53%	2	1	1
SUPERWOMAN		FLORAL	2020	0.17%	1	0	0
SUVER HAZE	VARIETY OF CONCERN	FLORAL	2020	0.51%	3	1	5
SWEET	VARIETY OF CONCERN	FLORAL	2019	0.35%	10	2	0
SWEET BERRY		FLORAL	2020	0.27%	2	0	0
SWEET TEA (SWEETENED FIE	VARIETY OF CONCERN	FLORAL	2020	0.48%	1	0	1
SWEET WIFE		FLORAL	2020	0.24%	3	0	0
SWEETENED	VARIETY OF CONCERN	FLORAL	2019	0.48%	2	3	1
T1	VARIETY OF CONCERN	FLORAL	2020	0.77%	7	2	2
T2	VARIETY OF CONCERN	FLORAL	2019	0.60%	7	3	3
THE GRAND	VARIETY OF CONCERN	FLORAL	2020	0.32%	2	1	0
THE WHITE	NEW	FLORAL	NEW				
TROPHY WIFE	VARIETY OF CONCERN	FLORAL	2020	0.53%	12	2	3
TRUMP 1	VARIETY OF CONCERN	FLORAL	2020	1.85%	1	2	1
TYGRA	NEW	FLORAL	NEW				
VIRGINIA HEMP		FLORAL	2019	0.23%	1	0	0
VORTEX	VARIETY OF CONCERN	FLORAL	2019	0.46%	1	0	1

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WHITE CBG	VARIETY OF CONCERN	FLORAL	2020	0.43%	17	0	2
WIFE	VARIETY OF CONCERN	FLORAL	2020	1.10%	5	1	3
WILD BOURBON		FLORAL	2020	0.25%	2	0	0
WORKHORSE		FLORAL	2019	0.26%	1	0	0
YOUNGSIM10	VARIETY OF CONCERN	FLORAL	2019	0.36%	1	1	0
YUMA CROSSBOW	NEW	FLORAL	NEW				
ZINFINDEL	VARIETY OF CONCERN	FLORAL	2019	0.61%	0	0	2