



Minnesota Hemp Program

- A license is required for growers and processors of **raw** hemp material
- License is obtained by applying online at the MDA website
- All applicants must pass a criminal history background check—instructions on how to complete the check are mailed to the applicant after they apply online
- Hemp is defined as having $\geq 0.30\%$ Total THC

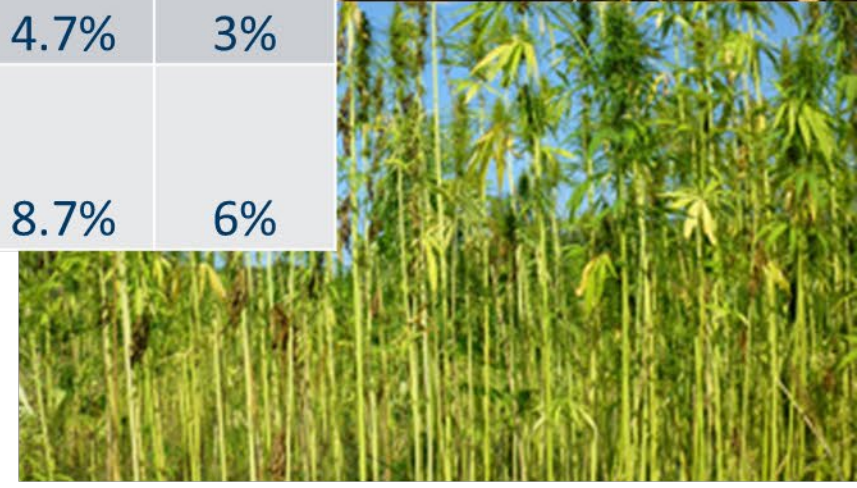
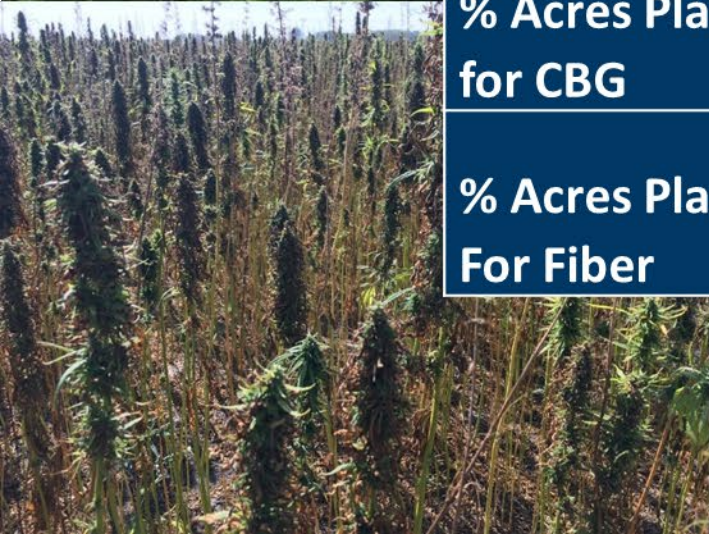


Minnesota Stats

Statistic	2016	2017	2018	2019	2020	2021
Applicants	7	47	65	505	586	459
Licensed Growers	6	33	43	353	317	178
Licensed Processors/Handlers	0	5	8	49	88	77
Outdoor Acreage Planted	38	1,202	709	7,353	4,690	2,830
Indoor Square Footage Planted	0	0	55,000	403,304	1,353,489	318,713

*Licensed growers who are also processors in 2021: 170

Four Types of Hemp Varieties



Statistic	2016	2017	2018	2019	2020	2021
% Acres Planted For Grain	94.7%	99.3%	89.5%	25.2%	48%	39%
% Acres Planted For CBD	0.0%	0.4%	9.6%	74.4%	38.6%	52%
% Acres Planted for CBG					4.7%	3%
% Acres Planted For Fiber	5.3%	0.3%	0.9%	0.4%	8.7%	6%



Average Yields- 2021

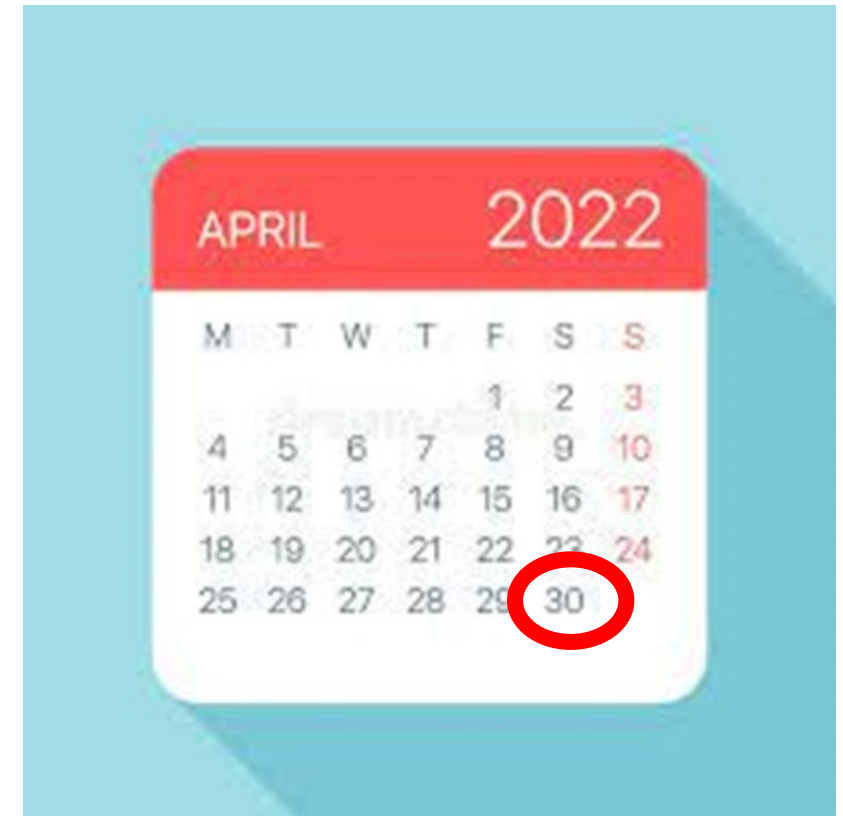
Grain 567 lbs/acre

Fiber 1 ton/acre

CBD Flower 273
lbs/acre

CBD Biomass 611
lbs/acre

- As of 2/8/22-- 141 applicants
 - New applicants: 37
 - Renewals: 104
- Application deadline is April 30, 2022
- Apply online: mda.state.mn.us/plants/hemp



Grower License	\$400+
Processor License	\$500+
Each Location	\$250
Each Sample for THC Testing	\$100
Each Inspection Beyond the First One	\$250
License Change Fee	\$50

2022 Fees

Applicant applies to MDA Hemp Program

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graph TD; A[Applicant applies to MDA Hemp Program] --> B[First-time applicants-fingerprinting & background check]; B --> C[License issued]; C --> D[Licensee plants hemp];
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First-time applicants-fingerprinting & background check

License issued

Licensee plants hemp

Licensee reports hemp planted to FSA

Licensee reports hemp planted to
MDA

MDA samples hemp 30 days prior to
harvest

Licensee submits Harvest Report

MDA issues Fit for Commerce Certificate



Licensee harvests lot

Hemp Program License

License Number: 202 [REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]

Pursuant to Minnesota Statutes Chapter 18K and the Minnesota state plan, the above-named person/business is authorized to act as a Grower or Processor or both based on the locations listed below.

Effective Date: 01/01/2021

Expiration Date: 12/31/2021

Physical Locations:

- 1 - GROW LOCATION 1: 38540.49 SQ FT INDOOR [REDACTED] MN [REDACTED] GPS POINT
[REDACTED] TOWNSHIP:115 RANGE:20 SECTION: [REDACTED] 1/4 SECTION [REDACTED]
- 2 - GROW LOCATION 2: 3.04 ACRE OUTDOOR [REDACTED] MN [REDACTED] GPS POINT [REDACTED]
TOWNSHIP:114 RANGE:18 SECTION: [REDACTED] 1/4 SECTION [REDACTED]
- 3 - GROW LOCATION 3: 4.21 ACRE OUTDOOR [REDACTED] MN [REDACTED]
[REDACTED] GPS POINT [REDACTED] TOWNSHIP:114 RANGE:19 SECTION: [REDACTED] 1/4 SECTION [REDACTED]
- 4 - PROCESSING LOCATION 1: [REDACTED] MN [REDACTED] GPS POINT [REDACTED]
TOWNSHIP:115 RANGE:20 SECTION: [REDACTED] 1/4 SECTION [REDACTED]

Changes to License

- Add Locations or License category
- Submit a Change Request Form (available on website or by request)



625 Robert Street North, Saint Paul, MN 55155-2538
www.mda.state.mn.us

PLANT PROTECTION DIVISION Phone: 651-201-6600

Minnesota Statute 18K

HEMP PROGRAM LICENSE CHANGE REQUEST

- Pay additional fees PLUS \$50 change fee
- Do not grow or process hemp in a new location until you have registered it

FSA Reporting

EXAMPLE OF FSA- 578 REPORT OF COMMODITIES FORM

Atkin, Minnesota										REPORT OF COMMODITIES										PROGRAM YEAR: 2020			
FSA - 578 (09-13-16)										FARM AND TRACT DETAIL LISTING										DATE: 06/08/2020			
Farm Number: 12345																				PAGE: 1			
Operator Name and Address																				Original: EN			
Jane Doe																				Revision: CB			
12345 Farmers Lane																				Cropland: 12.60			
Anywhere, MN 55551																				Farmland: 35.71			
<u>Tract Number</u>	<u>CLU/Field</u>	<u>Crop/Commodity</u>	<u>Var/Type</u>	<u>Int Use</u>	<u>Act Use</u>	<u>Irr. Pr.</u>	<u>Org Stat</u>	<u>Nat. Sed</u>	<u>C/C Stat</u>	<u>Rpt Unit</u>	<u>Rpt Qty</u>	<u>Det Qty</u>	<u>Crop Land</u>	<u>Field ID</u>	<u>Official/Measured</u>	<u>Planting Date</u>	<u>Planting Period</u>	<u>End Date</u>					
9766	2	Hemp		CB		N	C	N	I	A	12.60		Yes		N	8/15/2009	01	CC					
Producer		Jane Doe		Cherry Wine		Share 100.00		F						NAP Unit 22		Signature Date 06/04/2019							
Tract 9593 Summary																							
<u>PP</u>	<u>Cn/Cs</u>	<u>Var/Type</u>	<u>Int Use</u>	<u>Irr Pr</u>	<u>Rpt Unit</u>	<u>Rpt Qty</u>	<u>PP</u>	<u>Cn/Cs</u>	<u>Var/Type</u>	<u>Int Use</u>	<u>Irr Pr</u>	<u>Rpt Unit</u>	<u>Rpt Qty</u>	<u>PP</u>	<u>Cn/Cs</u>	<u>Var/Type</u>	<u>Int Use</u>	<u>Irr Pr</u>	<u>Rpt Unit</u>	<u>Rpt Qty</u>			
01	MDXFG	IGS	FG	N	A	12.60																	
Photo Number/Legal Description: [REDACTED]																							
Cropland: 12.60						Reported on Cropland: 12.60						Difference: 0.00				Reported on Non-Cropland: 0.00							

Hemp Lot Number = Farm Number- Tract Number- Field Number
12345-9766-2

PPD – Hemp Planting Cycle Form



Please read all of the following information carefully. Once you submit this form, we will automatically put you on the list for an inspection/sampling for THC testing at the appropriate time (within 30 days prior to your anticipated date of harvest).

DO NOT ALTER ANY OF THE PRE-FILLED INFORMATION.

Today's Date	License Number*	Hemp Grow Location Number*	Hemp Location Date ID	
<input type="text" value="02/04/2022"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Hemp Grow Location Address		Hemp Grow Location City	<input type="checkbox"/> Not Planted	
<input type="text"/>		<input type="text"/>		
Hemp Grow License Type	Square Footage	Actual Square Footage	Acreage	Actual Acreage
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

For each variety planted at this specific grow location, fill out a separate line and press “Add” to add another one. In addition, if you have other hemp lots that will be harvested on different dates, please fill out a separate form.

Please Note– The grower will be invoiced for *each* sample taken. The cost of the regulatory sample is no longer covered under the license fees. Each hemp variety and lot must be tested separately. You will be invoiced \$100 for each test, and \$250 for each additional inspection visit beyond the first one.

Submission of this form will trigger the MDA to schedule an inspection 30 days prior to harvest

PPD – Hemp Planting Cycles					Add
Hemp Lot Number *	Hemp – Variety List *	Date of Planting *	Date of Anticipated Harvest *	Intended Use of Lot	Remove
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

Privacy Notice:

This information is being collected so the MDA can monitor licensed hemp growers' compliance with all relevant state and federal laws, rules, and requirements regarding the growing of hemp in Minnesota. The MDA will also share this information with federal authorities to demonstrate that the MDA is compliant with all applicable state and federal laws, rules, and requirements for the administration of a hemp licensing program in Minnesota. Some of the information you are supplying as part of this form, such as the location of your grow field or greenhouse is classified by law as not public data. Other data, such as the identity and contact information of Minnesota Industrial Hemp Program license holders, the material planted, acreage/square feet planted, and planting dates, is generally classified as public data. Public data are available to anyone for any reason. Not public data will be used by those MDA employees and contractors that have a valid work assignment that requires access to the data. Not public data may also be shared with parties authorized by law, parties authorized by you through your consent, and parties named in a valid court order or federal subpoena. Not public data may also be provided to the legislative auditor or state auditor upon their request. In addition, all data provided on this form may be disclosed to other parties if the MDA determines that there is a substantive threat to human health and safety or to the environment, or to aid in the law enforcement process. In the event of a legal action, data may be shared with the Office of the Minnesota Attorney General or with Minnesota or federal courts. You are not required by law to provide this information to the MDA, however your failure to do so may result in the revocation of your Minnesota Industrial Hemp license. Growing hemp in Minnesota without a valid Industrial Hemp license is illegal.

Submit

Field Inspection and THC Sampling

- Hemp lot must be harvested 30 days after regulatory sample is collected
- We cut the top 5" from 30 plants randomly selected throughout the field
- Each variety and lot must be tested separately



THC Testing

- Sample is sent to Legend Technical Services for THC analysis
- THC test results must be 0.30% or less to be legal hemp- factoring in the measurement of uncertainty
- Over 0.30% - can request a retest, remediate, or destroy



Measurement of Uncertainty

- Provides a THC test result range that factors in lab & sampling variability

EXAMPLE 1

Sample Number	Variety Name	Total Potential THC= D9 THC + (THCA x 0.877)	Total THC Result- Lower Value w/ MU	Total THC Result- Upper Value w/ MU
001	Autoflower	0.306%	0.231%	0.381%

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EXAMPLE 2

Sample Number	Variety Name	Total Potential THC= D9 THC + (THCA x 0.877)	Total THC Result- Lower Value w/ MU	Total THC Result- Upper Value w/ MU
002	Cherry	0.434%	0.359%	0.499%

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PPD - Hemp Harvest Report Form



For each hemp variety you intend to harvest and/or destroy, please fill in the white boxes with the information requested. The information in the gray boxes have been pre-populated based on the Planting Report form you submitted. If the information is incorrect, please contact the Hemp Program at hemp.mda@state.mn.us.

You must submit this report to the MDA not more than 30 days and not less than 5 days prior to your intended harvest date. All hemp Lots must be sampled for testing within a 30-day window prior to harvest. If the Department sampled and tested your Lot(s) for regulatory purposes, then you must harvest within 30 days of the sample date. If it passes the THC test, then you will receive a Fit For Commerce certificate for the Lot.

If the Department notified you that your Lot was not selected for regulatory sampling, then you must take your own representative sample according to Department protocols and submit it to a Department-approved laboratory for THC testing. You must submit the Certificate of Analysis/Test Results from the laboratory along with this form. You must harvest the hemp within 30 days of the date the sample was collected. If the test results show a Total THC level below 0.3%, after factoring in the measurement of uncertainty, you will receive a Fit For Commerce certificate for the Lot.

Providing the information requested on this form is a required condition of holding an MDA Hemp Program license.

Date

Contact Information

Entity Name	Business Name	License Number
<input type="text"/>	<input type="text"/>	<input type="text"/>

Grow Location Information

Hemp Grow Location Number	Hemp Lot Number	Hemp Location Date ID	
<input type="text"/>	<input type="text"/>	<input type="text"/>	
Hemp Grow Location Address	Hemp Grow Location City		
<input type="text"/>	<input type="text"/>		
Hemp Variety List	Hemp Grow Location Type	Date of Planting	
<input type="text"/>	<input type="text"/>	<input type="text"/>	
Date of Anticipated Harvest	Date of Destruction	Acreage Destroyed	Square Footage Destroyed
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

In accordance with the Americans with Disabilities Act, this information is available in alternative forms of communication upon request by calling 651-201-6000. TTY users can call the Minnesota Relay Service at 711. The MDA is an equal opportunity employer and provider.

Submit

Industrial Hemp Program Fit For Commerce Certificate

January 21, 2021



License Number:



Email:



This certificate concerns the test result for the industrial hemp plant sample collected at the licensed grow location indicated below by the sample number. The sample was collected by an MDA inspector on 1/21/21. As defined in Minnesota Statute 18K.02 and Subtitle G of the Agricultural Marketing Act of 1946, 7 U.S.C. §§ 1639o – 1639s (2018 “Farm Bill”), the delta-9 tetrahydrocannabinol post-decarboxylation (Total Potential THC) content is specified by a range of values plus or minus the measurement of uncertainty (MU). The MU adopted by the Minnesota Hemp Program is based on the laboratory measurement of uncertainty plus sampling variability. The value 0.30% must lie within the THC content range for your sample, which is listed below.

Sample Number	Grow Location	Variety Name	Total Potential THC (Lower Value w/ MU- Upper Value w/ MU)
MW21001	781	Queen Dream	0.339% (0.258%- 0.421%)

The sample taken at your hemp grow location was tested for THC concentration and found to be in compliance with MS Chapter 18K.02 and Subtitle G of the Agricultural Marketing Act of 1946, 7 U.S.C. §§ 1639o – 1639s. The industrial hemp material harvested from this specified lot is fit to enter the stream of commerce.

2021 Failures

- Approximately 12% of samples failed the initial THC test
- Similar failure rate for 2019 & 2020



- 11 negligent violations were issued
- Negligent violation is issued for anything testing over 1%



Remediation

Separate &
destroy non-
compliant flowers
while retaining
stalks, leaves, and
seeds

Shred the entire
plant to create
homogeneous
“biomass”

Remediation

- First Year
- 17 remediation attempts
- 65% of attempts were successful



Records - Grower



For Seed or Propagules purchased:

- A Certificate of Analysis
- Lot # or other lot identification
- Invoices
- Variety Name
- Copy of seed label

* Must keep records for 3 years



Records- Processors

We will discuss this at
10:30 am

Tony Cortilet
Katy Mutschler
Julie Dellick
Denise Thiede

651-201-6600

<https://www.mda.state.mn.us/plants/hemp>
hemp.mda@state.mn.us

THANK YOU!