



**United States Department of Agriculture**  
**National Agricultural Statistics Service**



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# **National Hemp Report**

## **Agricultural Statistics Board Briefing**

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Crops Branch**

April 19, 2023

The **Hemp Acreage and Production Survey** was a joint effort by NASS and AMS, in collaboration with numerous other USDA agencies.

## Hemp Survey Collected Information On:

- Total Planted & Harvested Area
- Yield
- Production
- Value

## USDA Hemp Partners

- National Agricultural Statistics Service (**NASS**)
- Agricultural Marketing Service (**AMS**)
- Farm Service Agency (**FSA**)
- Risk Management Agency (**RMA**)
- Economic Research Service (**ERS**)
- Office of Chief Economist (**OCE**)



# Background



As defined in the Agricultural Improvement Act of 2018 (2018 Farm Bill), the term “hemp” means the plant species *Cannabis sativa* L. and any part of the plant such as seeds, all derivatives, and extracts, whether growing or not, with a delta-9 tetrahydrocannabinol (THC) concentration of not more than 0.3% on a dry weight basis.

The Domestic Hemp Production Program, established in the 2018 Farm Bill and administered by AMS, allows for the cultivation of hemp under certain conditions.



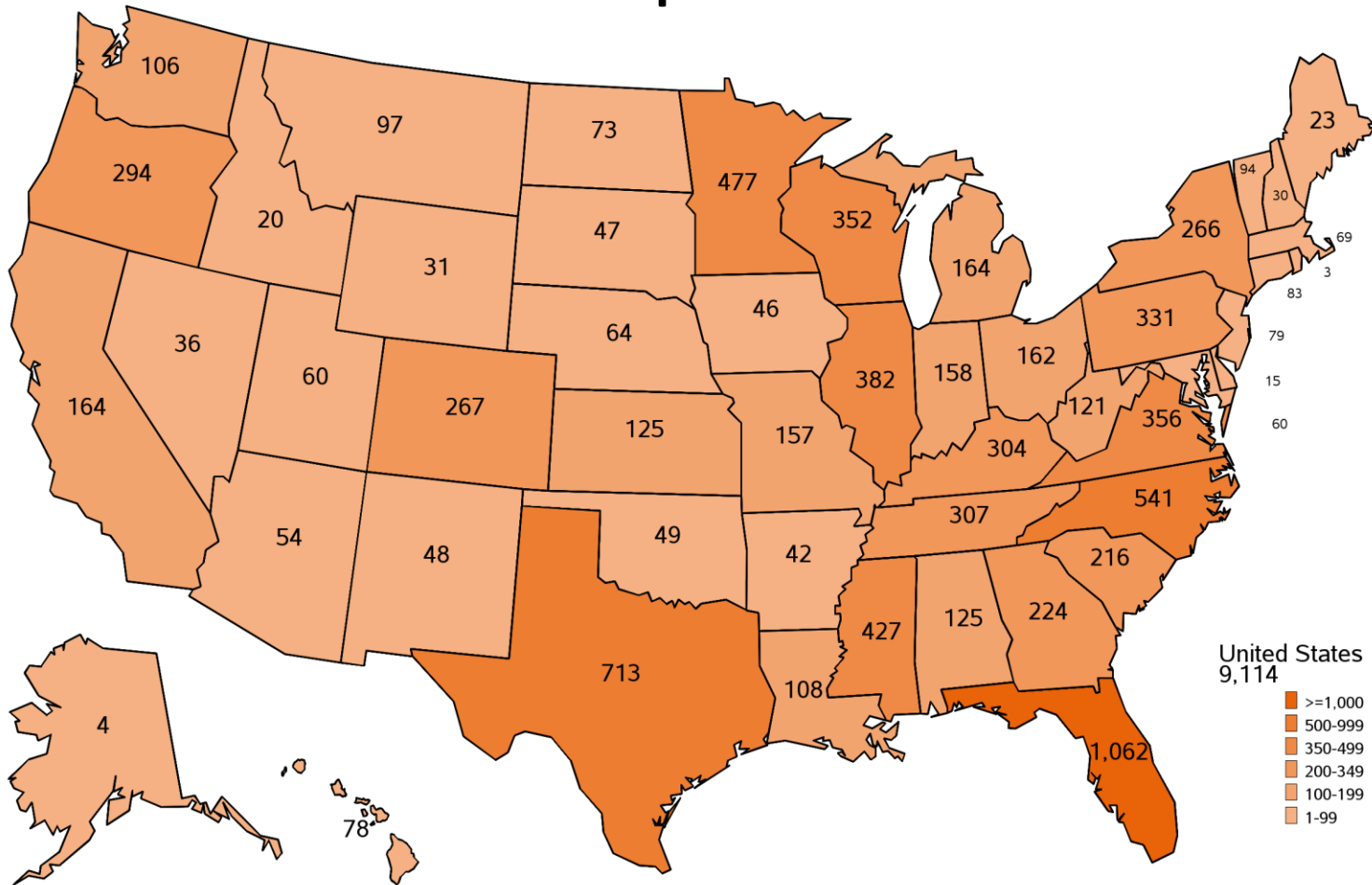
# Data Sources



<b>Operator Reported Survey</b>	<b>Hemp Acreage and Production Survey</b>	<b>Sample Size = 9,114</b>	<b>February 2023 - March 2023</b>
<b>FSA</b>	<b>Hemp producers report indicated usage acreage data to FSA.</b> <a href="https://www.fsa.usda.gov/news-room/efoia/electronic-reading-room/frequently-requested-information/crop-acreage-data/index">https://www.fsa.usda.gov/news-room/efoia/electronic-reading-room/frequently-requested-information/crop-acreage-data/index</a>		
<b>RMA</b>	<b>Insureds who participate in the Hemp Actual Production History (APH) pilot are required to provide acceptable acreage reports and production reports to establish their insurable acreage and production guarantees, respectively.</b>		
<b>AMS</b>	<b>Tribal Governments and State Departments of Agriculture provide hemp acreage data by usage to AMS.</b>		
<b>State Sources</b>	<b>State Departments of Agriculture routinely collect and disseminate hemp information and data. What is collected varies by state.</b>		

# Hemp Acreage and Production Survey

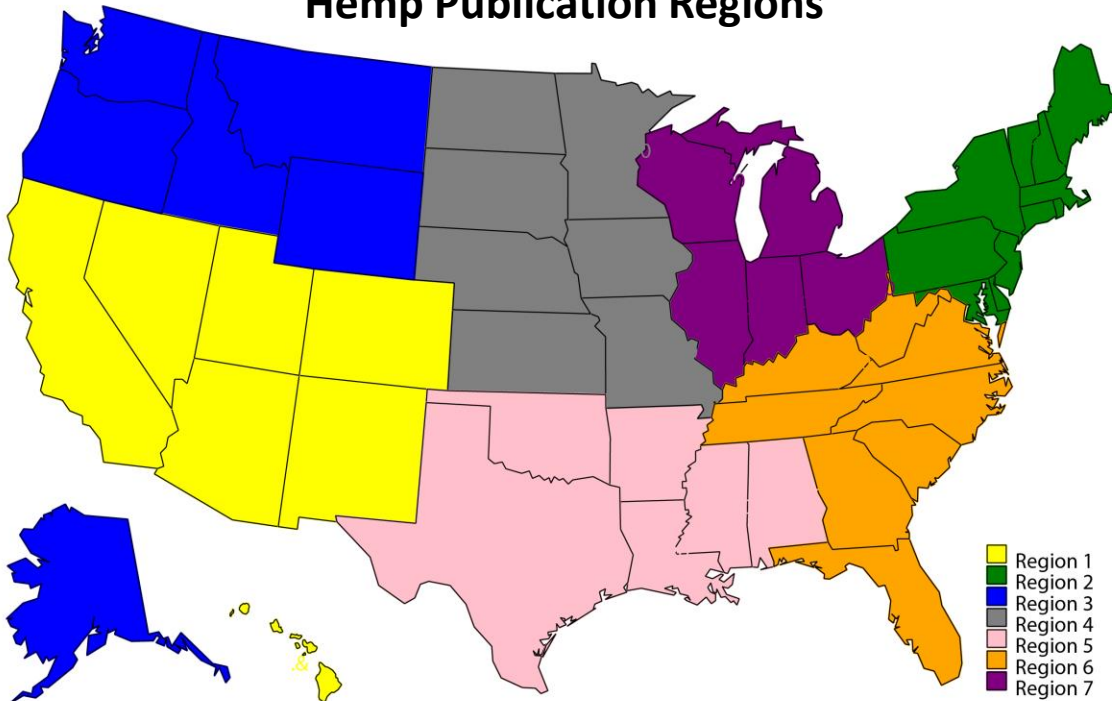
## Sample Sizes



# Publication Levels

Levels of Publication      U.S., Region, State

Hemp Publication Regions



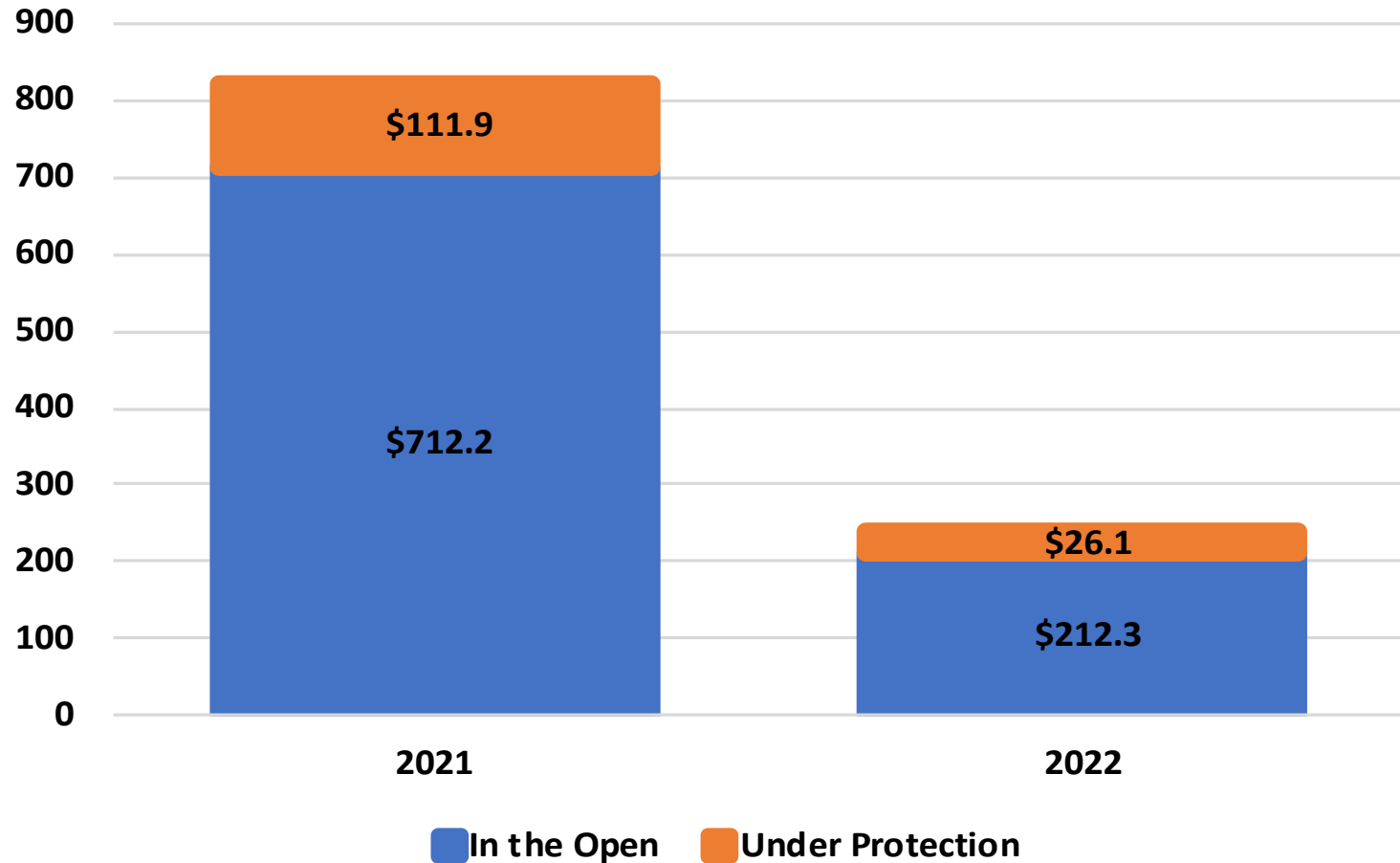
Count of Published Items  
by Level

U.S.	149
Region	24
State	731

# 2022 Industrial Hemp

## Value of All Utilized Production

Million Dollars





# 2022 Industrial Hemp

## Grown in the Open

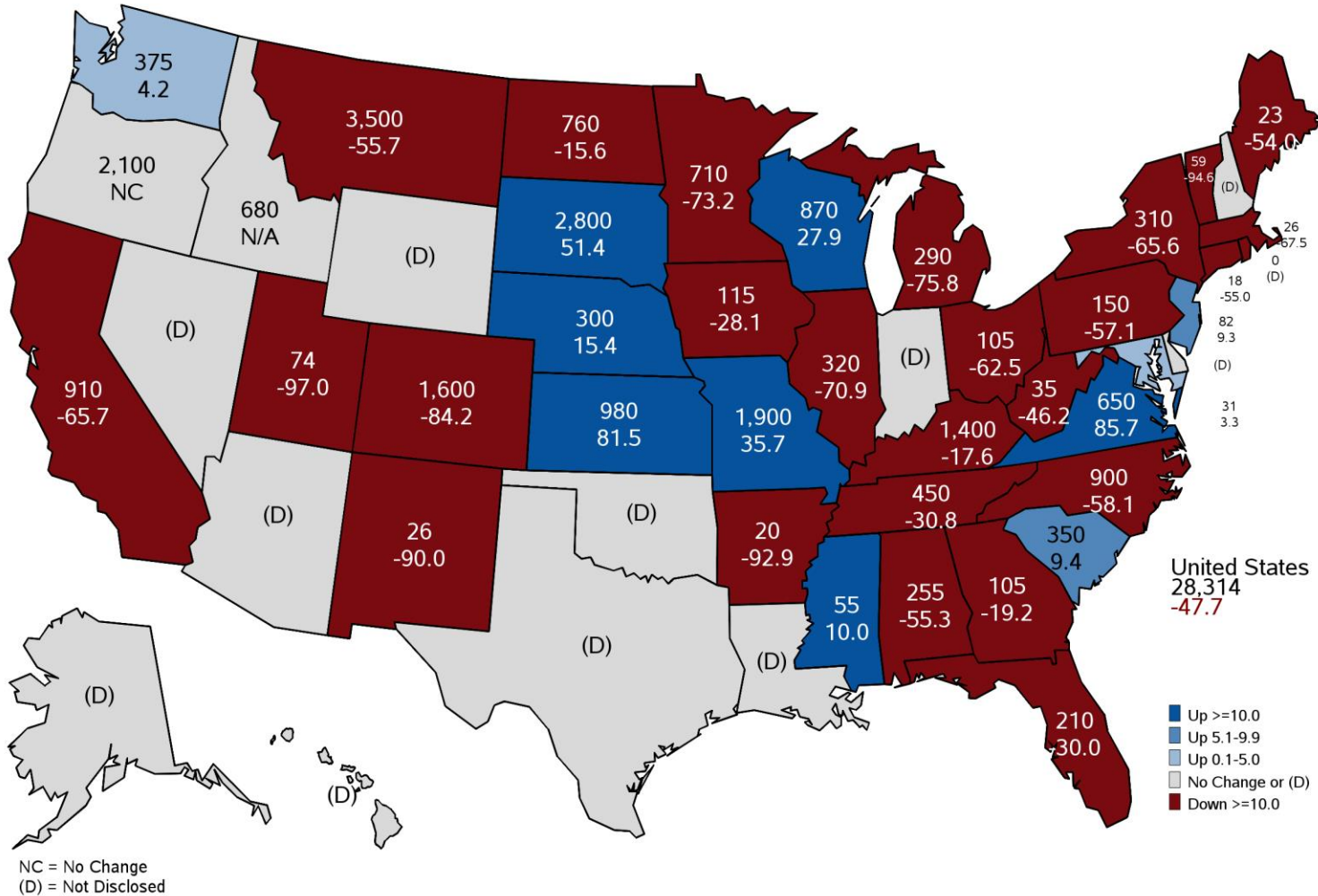
	Planted (Acres)	Harvested (Acres)	Value of Utilized Production (1,000 Dollars)
<b>United States</b>	<b>28,314</b>	<b>18,251</b>	<b>212,286</b>
% Change from Previous Season	↓ 47.7	↓ 45.5	↓ 70.2

Top 6 States - By Planted Acres						
	Planted (Acres)		Harvested (Acres)		Value of Utilized Production (1,000 Dollars)	
		% Δ PY		% Δ PY		% Δ PY
Montana	3,500	↓ -55.7	1,470	↓ -67.3	(D)	
South Dakota	2,800	↑ 51.4	2,550	↑ 50.0	(D)	
(D)	(D)		(D)		(D)	
Oregon	2,100	NC	1,900	↑ 2.7	(D)	
Missouri	1,900	↑ 35.7	1,400	↑ 21.7	(D)	
Colorado	1,600	↓ -84.2	480	↓ -84.5	(D)	



# 2022 Industrial Hemp Planted

## Acres in the Open and Percent Change from Previous Year





# 2022 Industrial Floral Hemp Grown in the Open



	Harvested (Acres)	Yield (Pounds Per Acre)	Total Production (1,000 Pounds)	Utilized Production (1,000 Pounds)
<b>United States</b>	<b>7,105</b>	<b>954</b>	<b>6,781</b>	<b>6,140</b>
% Change from Previous Season	↓ 55.5	↓ 22.8	↓ 65.6	↓ 61.0

## Top 5 States - By Harvested Acres

	Harvested (Acres)		Yield (Pounds Per Acre)		Total Production (1,000 Pounds)		Utilized Production (1,000 Pounds)	
		% Δ PY		% Δ PY		% Δ PY		% Δ PY
Oregon	1,900	↑ 15.2	720	↓ 50.3	1,368	↓ 42.8	1,295	↓ 41.7
Kentucky	1,150	↓ 16.7	2,360	↑ 18.6	2,714	↓ 1.2	2,619	↑ 4.1
California	680	↓ 64.2	510	↓ 62.8	347	↓ 86.7	324	↓ 77.2
Minnesota	455	↑ 30.0	290	↓ 39.6	132	↓ 21.4	78	↓ 44.3
Colorado	275	↓ 81.5	2,340	↑ 81.4	644	↓ 66.5	596	↓ 62.7



# 2022 Industrial Floral Hemp Grown in the Open

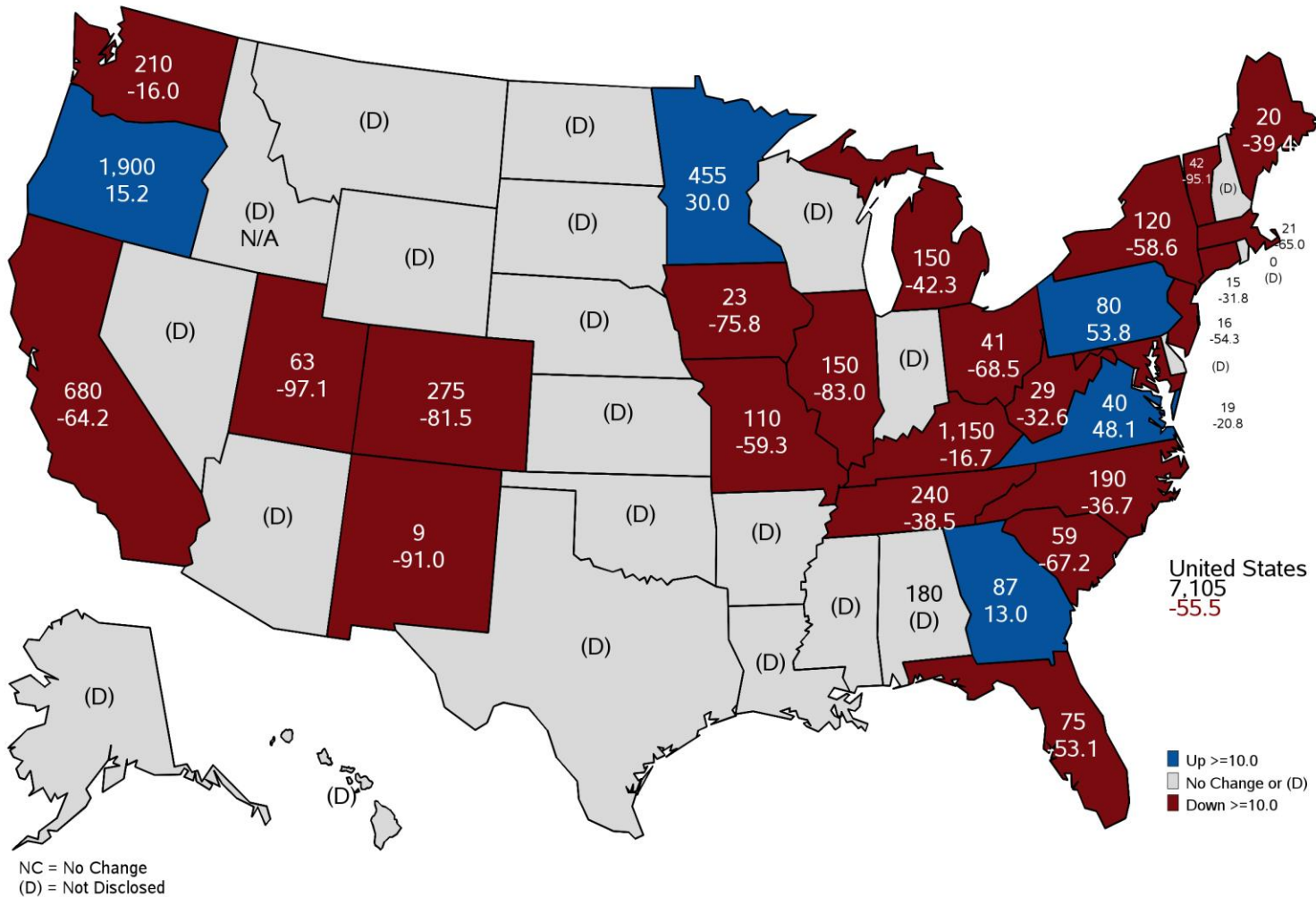


	Harvested Not Sold (1,000 Pounds)	Price (Dollars Per Pound)	Value of Utilized Production (1,000 Dollars)	Under Contract (Percent)
<b>United States</b>	<b>641</b>	<b>29.10</b>	<b>178,900</b>	<b>31</b>
% Change from Previous Season	↓ 84.0	↓ 26.5	↓ 71.3	↑ 138.5

Top 5 States - By Harvested Acres											
	Harvested Not Sold (1,000 Pounds)		Price (Dollars Per Pound)		Value of Utilized Production (1,000 Dollars)		Under Contract (Percent)				
		% Δ PY		% Δ PY		% Δ PY		% Δ PY		% Δ PY	
Oregon	73	↓ 57.6	53.00	↓ 50.0	68,635	↓ 70.8	17	↑ 1,600.0			
Kentucky	95	↓ 58.9	1.46	↓ 67.3	3,824	↓ 65.9	32	↑ 10.3			
California	23	↓ 98.1	15.90	↓ 63.4	5,152	↓ 91.6	0	↓ 100.0			
Minnesota	54	↑ 92.9	142.00	↑ 107.0	11,076	↑ 15.3	31	↑ 3,000.0			
Colorado	48	↓ 85.2	3.99	↓ 2.4	2,378	↓ 63.6	85				

# 2022 Industrial Floral Hemp Harvested

## Acres in the Open and Percent Change from Previous Year





# 2022 Industrial Hemp for Grain Grown in the Open



	Harvested (Acres)	Yield (Pounds Per Acre)	Total Production (1,000 Pounds)	Utilized Production (1,000 Pounds)
<b>United States</b>	<b>5,379</b>	<b>452</b>	<b>2,429</b>	<b>2,362</b>
% Change from Previous Season	↓ 34.8	↓ 14.7	↓ 44.4	↓ 40.4

	Regions							
	Harvested (Acres)		Yield (Pounds Per Acre)		Total Production (1,000 Pounds)		Utilized Production (1,000 Pounds)	
		% Δ PY		% Δ PY		% Δ PY		% Δ PY
Region 1	(D)		(D)		(D)		(D)	
Region 2	(D)		(D)		(D)		(D)	
Region 3	979	↓ 77.0	343	↓ 15.5	336	↓ 80.6	336	↓ 80.5
Region 4	3,418	↑ 17.9	487	↓ 22.5	1,663	↓ 8.6	1,632	↓ 10.3
Region 5	(D)		(D)		(D)		(D)	
Region 6	(D)		(D)		(D)		(D)	
Region 7	(D)		(D)		(D)		(D)	



# 2022 Industrial Hemp for Grain Grown in the Open



	Harvested Not Sold (1,000 Pounds)	Price (Dollars Per Pound)	Value of Utilized Production (1,000 Dollars)	Under Contract (Percent)
<b>United States</b>	<b>67</b>	<b>1.54</b>	<b>3,629</b>	<b>35</b>
% Change from Previous Season	↓ 83.7	↑ 2.0	↓ 39.4	↑ 45.8

	Regions							
	Harvested Not Sold (1,000 Pounds)		Price (Dollars Per Pound)		Value of Utilized Production (1,000 Dollars)		Under Contract (Percent)	
		% Δ PY		% Δ PY		% Δ PY		% Δ PY
Region 1	(D)		(D)		(D)		(D)	
Region 2	(D)		(D)		(D)		(D)	
Region 3	0	↓ 100.0	0.65	NC	217	↓ 80.5	88	↑ 282.6
Region 4	31	↑ 3,000.0	1.02	↑ 54.5	1,671	↑ 39.8	19	↓ 29.6
Region 5	(D)		(D)		(D)		(D)	
Region 6	(D)		(D)		(D)		(D)	
Region 7	(D)		(D)		(D)		(D)	



# 2022 Industrial Hemp for Fiber Grown in the Open



	Harvested (Acres)	Yield (Pounds Per Acre)	Total Production (1,000 Pounds)	Utilized Production (1,000 Pounds)
<b>United States</b>	<b>6,850</b>	<b>3,070</b>	<b>21,030</b>	<b>20,543</b>
% Change from Previous Season	↓ 46.0	↑ 17.2	↓ 36.7	↓ 25.6

## Top 5 States - By Harvested Acres

	Harvested (Acres)		Yield (Pounds Per Acre)		Total Production (1,000 Pounds)		Utilized Production (1,000 Pounds)	
		% Δ PY		% Δ PY		% Δ PY		% Δ PY
Missouri	1,300	↑ 62.5	5,900	↑ 82.1	7,670	↑ 195.9	7,670	↑ 196.3
South Dakota	800		2,430		1,944		1,944	
Montana	630	↓ 80.3	3,860	↑ 302.1	2,432	↓ 20.8	2,432	↓ 20.8
(D)	(D)		(D)		(D)		(D)	
Virginia	480	↑ 77.8	1,320	↑ 116.4	634	↑ 284.2	633	↑ 283.6



# 2022 Industrial Hemp for Fiber Grown in the Open



	Harvested Not Sold (1,000 Pounds)	Price (Dollars Per Pound)	Value of Utilized Production (1,000 Dollars)	Under Contract (Percent)
<b>United States</b>	<b>487</b>	<b>1.38</b>	<b>28,273</b>	<b>39</b>
% Change from Previous Season	↓ 91.4	↓ 8.0	↓ 31.8	↑ 200.0

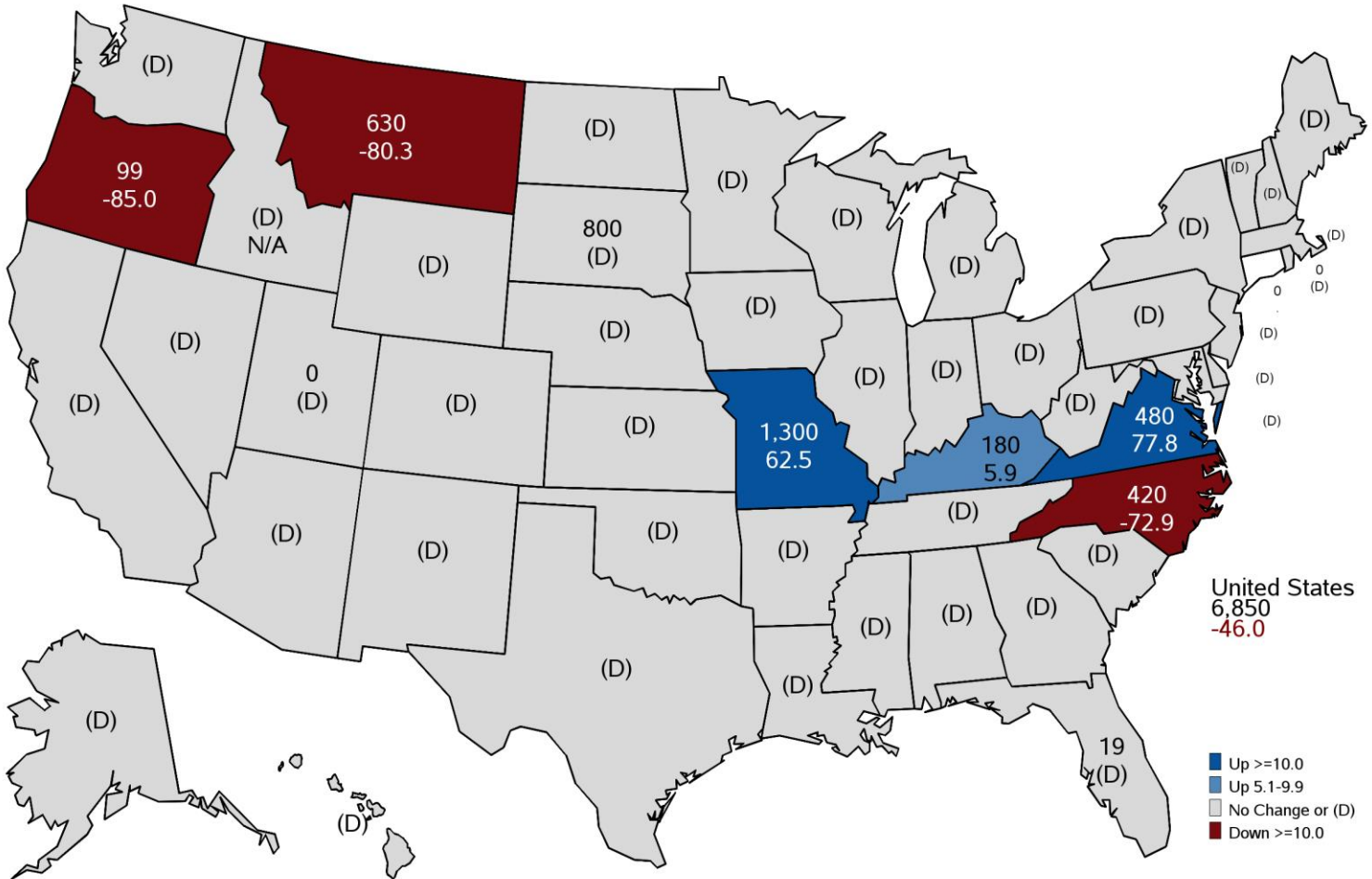
Top 5 States - By Harvested Acres									
	Harvested Not Sold (1,000 Pounds)		Price (Dollars Per Pound)		Value of Utilized Production (1,000 Dollars)		Under Contract (Percent)		
		% Δ PY		% Δ PY		% Δ PY		% Δ PY	
Missouri	0		1.30	↑ 828.6	9,971	↑ 2,654.4	22	↑ 83.3	
South Dakota	0		0.18		350		37		
Montana	0		0.11	↓ 35.3	268	↓ 48.7	100	↑ 69.5	
(D)	(D)		(D)		(D)		(D)		
Virginia	1		0.31	↓ 61.7	196	↑ 46.3	43	↑ 4,200.0	





# 2022 Industrial Hemp for Fiber Harvested

## Acres in the Open and Percent Change from Previous Year



NC = No Change  
 (D) = Not Disclosed

United States  
 6,850  
 -46.0

Up >=10.0  
 Up 5.1-9.9  
 No Change or (D)  
 Down >=10.0



# 2022 Industrial Hemp for Seed Grown in the Open



	Harvested (Acres)	Yield (Pounds Per Acre)	Total Production (1,000 Pounds)	Utilized Production (1,000 Pounds)
<b>United States</b>	<b>812</b>	<b>180</b>	<b>146</b>	<b>133</b>
% Change from Previous Season	↓ 76.9	↓ 66.0	↓ 92.2	↓ 92.1

	Harvested Not Sold (1,000 Pounds)	Price (Dollars Per Pound)	Value of Utilized Production (1,000 Dollars)	Under Contract (Percent)
<b>United States</b>	<b>13</b>	<b>11.20</b>	<b>1,484</b>	<b>23</b>
% Change from Previous Season	↓ 92.9	↓ 54.7	↓ 96.4	↑ 109.1



# 2022 Industrial Hemp Grown Under Protection

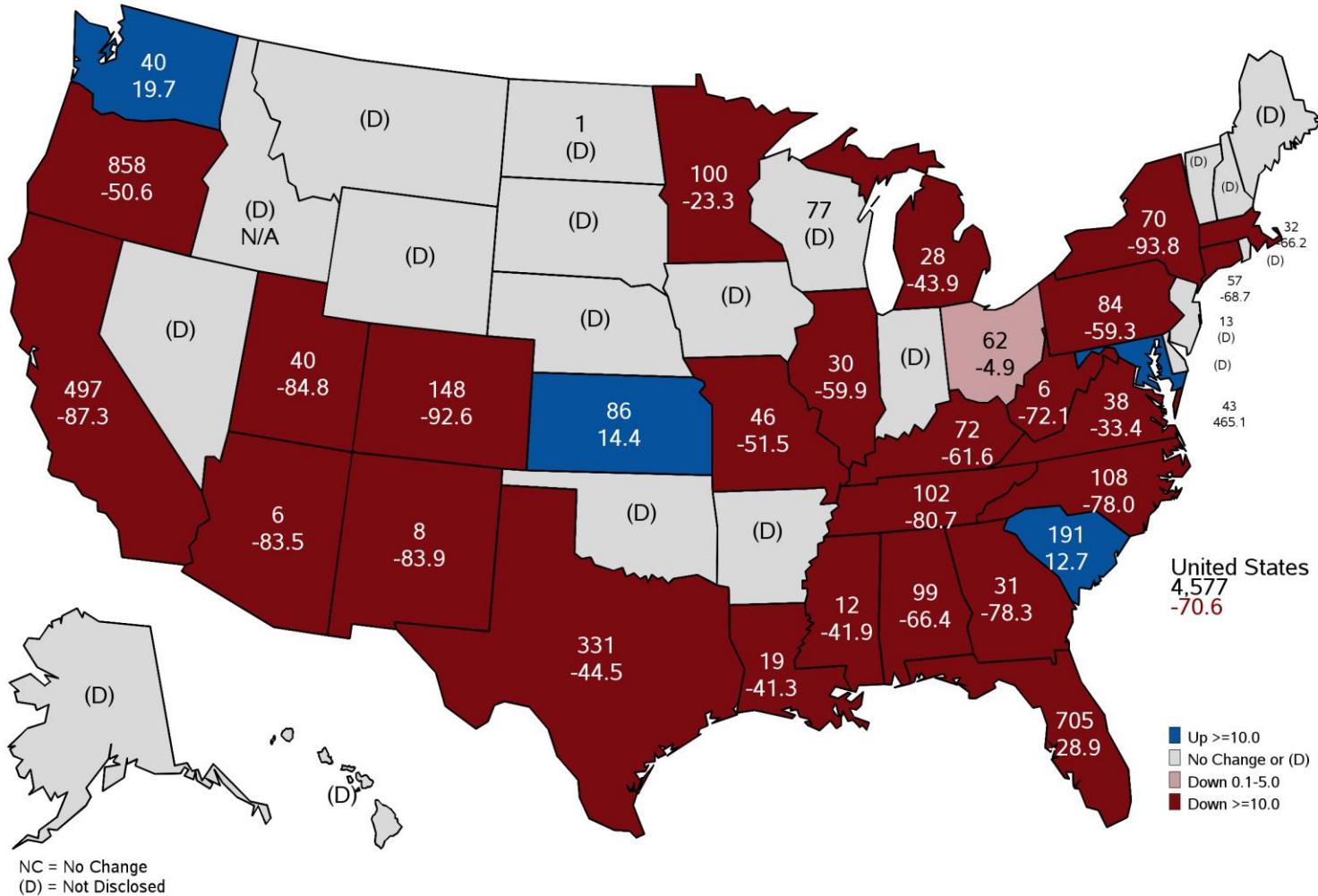
	Area in Production (Square Feet)	Value of Utilized Prodction (1,000 Dollars)
<b>United States</b>	<b>4,576,743</b>	<b>26,051</b>
% Change from Previous Season	↓ 70.6	↓ 76.7

Top 5 States				
	Area in Production (Square Feet)	Value of Utilized Production (1,000 Dollars)      % Δ PY		
Oregon	858,094	↓	50.6	(D)
Florida	704,862	↓	28.9	(D)
California	497,000	↓	87.3	(D)
(D)	(D)			(D)
Texas	331,326	↓	44.5	(D)



# 2022 Industrial Hemp Area in Production

## 1,000 Square Feet Under Protection and Percent Change from Previous Year





# 2022 Industrial Hemp

## Clone or Transplant Production - Grown Under Protection

	<b>Total Production</b> (1,000 Plants)	<b>Utilized Production</b> (1,000 Plants)	<b>Harvested Not Sold</b> (1,000 Plants)
<b>United States</b>	<b>1,263</b>	<b>1,248</b>	<b>15</b>
% Change from Previous Season	↓ 93.8	↓ 93.1	↓ 99.3

	<b>Price</b> (Dollars Per Plant)	<b>Value of Utilized Production</b> (1,000 Dollars)	<b>Under Contract</b> (Percent)
<b>United States</b>	<b>0.59</b>	<b>738</b>	<b>80</b>
% Change from Previous Season	↓ 55.3	↓ 96.9	↑ 175.9



# 2022 Industrial Hemp

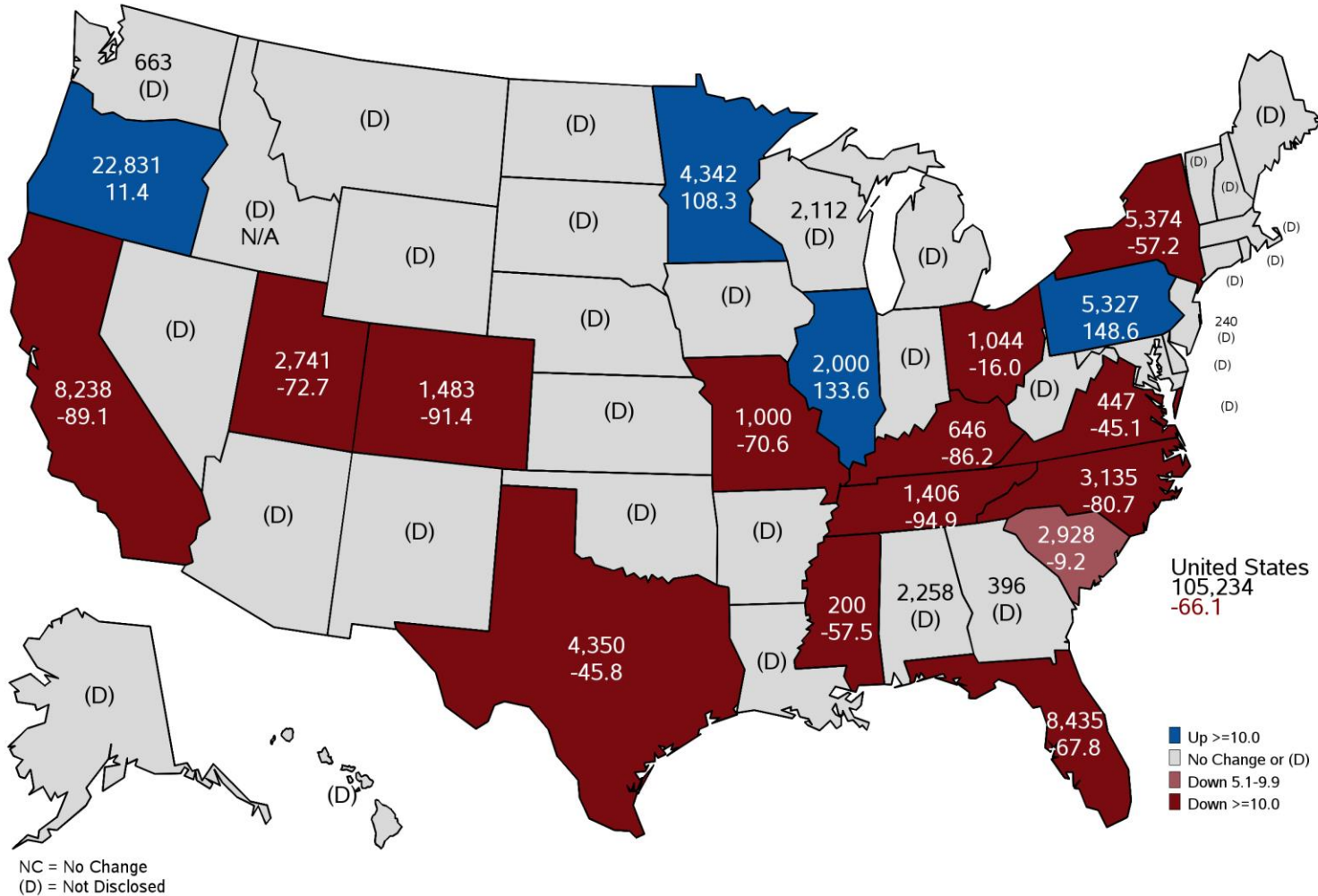
## Floral Production - Grown Under Protection

	<b>Total Production</b> (Pounds)	<b>Utilized Production</b> (Pounds)	<b>Harvested Not Sold</b> (Pounds)
<b>United States</b>	<b>105,234</b>	<b>79,418</b>	<b>25,816</b>
% Change from Previous Season	↓ 66.1	↓ 69.0	↓ 52.5

	<b>Price</b> (Dollars Per Pound)	<b>Value of Utilized Production</b> (1,000 Dollars)	<b>Under Contract</b> (Percent)
<b>United States</b>	<b>311.00</b>	<b>24,737</b>	<b>16</b>
% Change from Previous Season	↑ 23.9	↓ 61.6	↓ 46.7

# 2022 Industrial Hemp Floral Production

## Pounds Under Protection and Percent Change from Previous Year





# 2022 Industrial Hemp

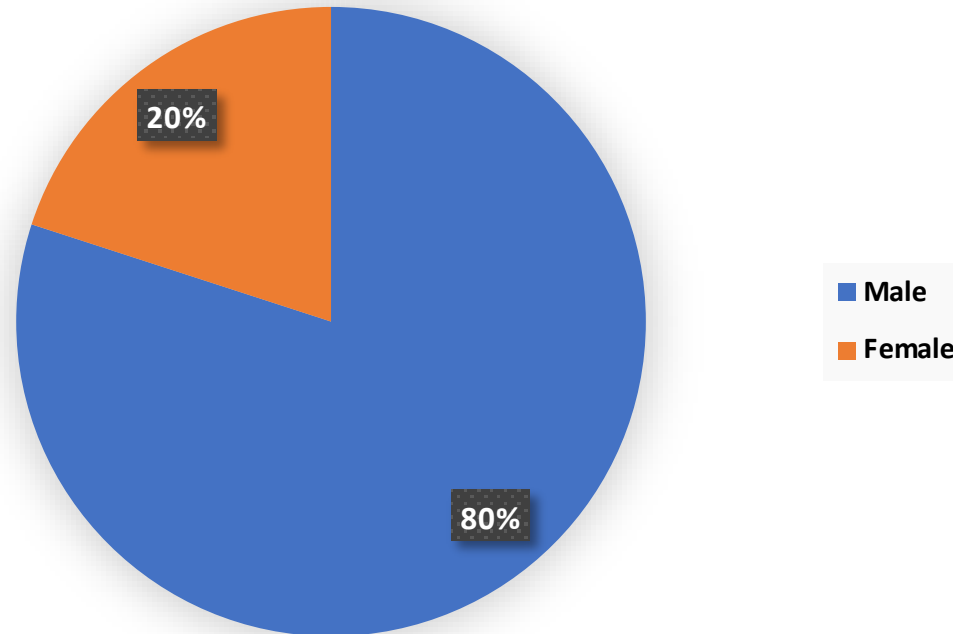
## Seed Production - Grown Under Protection

	<b>Total Production</b> (Pounds)	<b>Utilized Production</b> (Pounds)	<b>Harvested Not Sold</b> (Pounds)
<b>United States</b>	<b>1,476</b>	<b>1,344</b>	<b>132</b>
% Change from Previous Season	↓ 63.6	↓ 56.9	↓ 85.9

	<b>Price</b> (Dollars Per Pound)	<b>Value of Utilized Production</b> (1,000 Dollars)	<b>Under Contract</b> (Percent)
<b>United States</b>	<b>429.00</b>	<b>576</b>	<b>2</b>
% Change from Previous Season	↓ 94.4	↓ 97.6	↑ 100.0



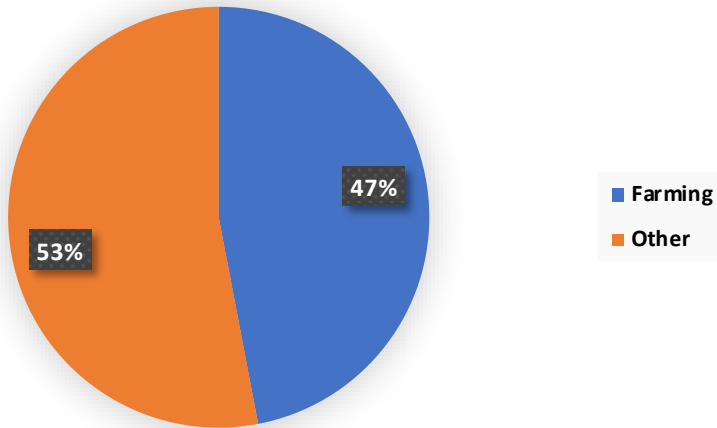
# 2022 Industrial Hemp Producer Characteristics - Sex



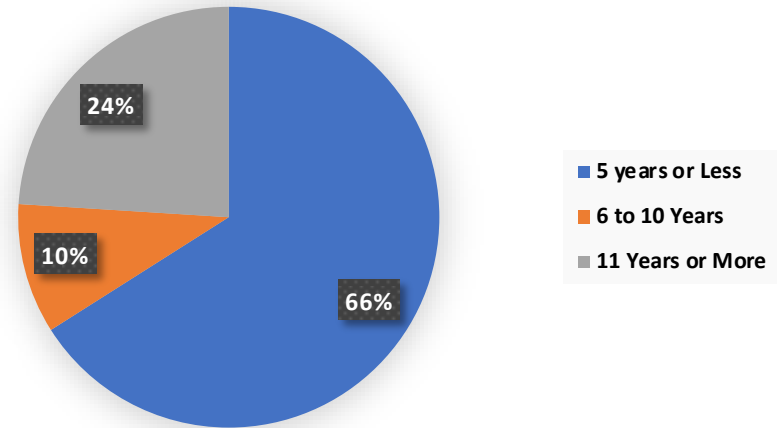
# 2022 Industrial Hemp

## Producer Characteristics – Occupation & Years Operating

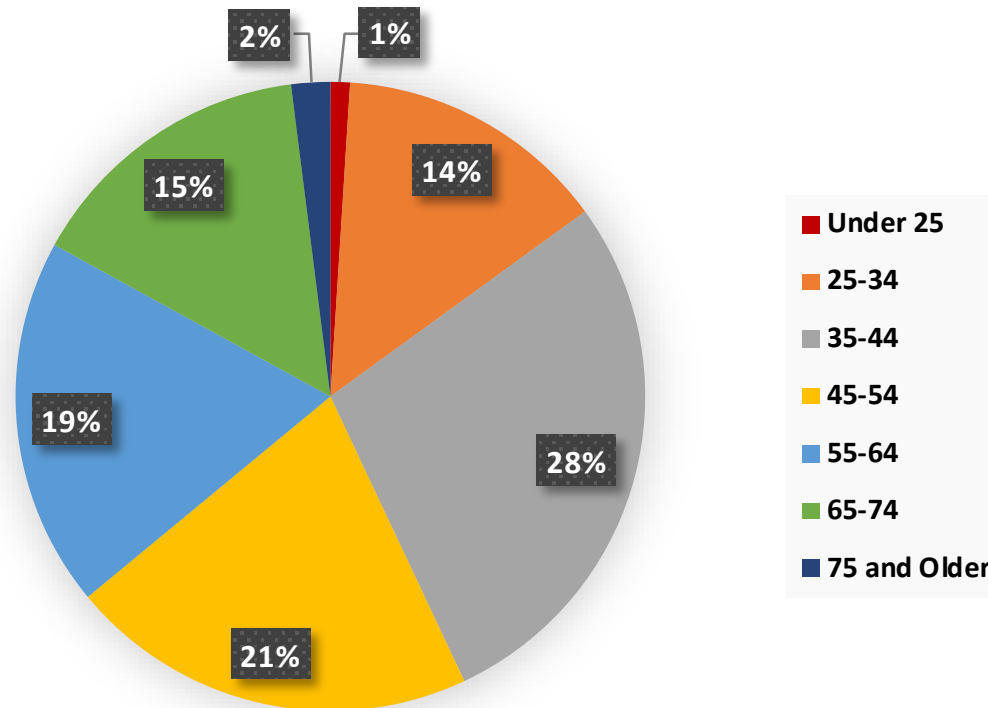
### Primary Occupation



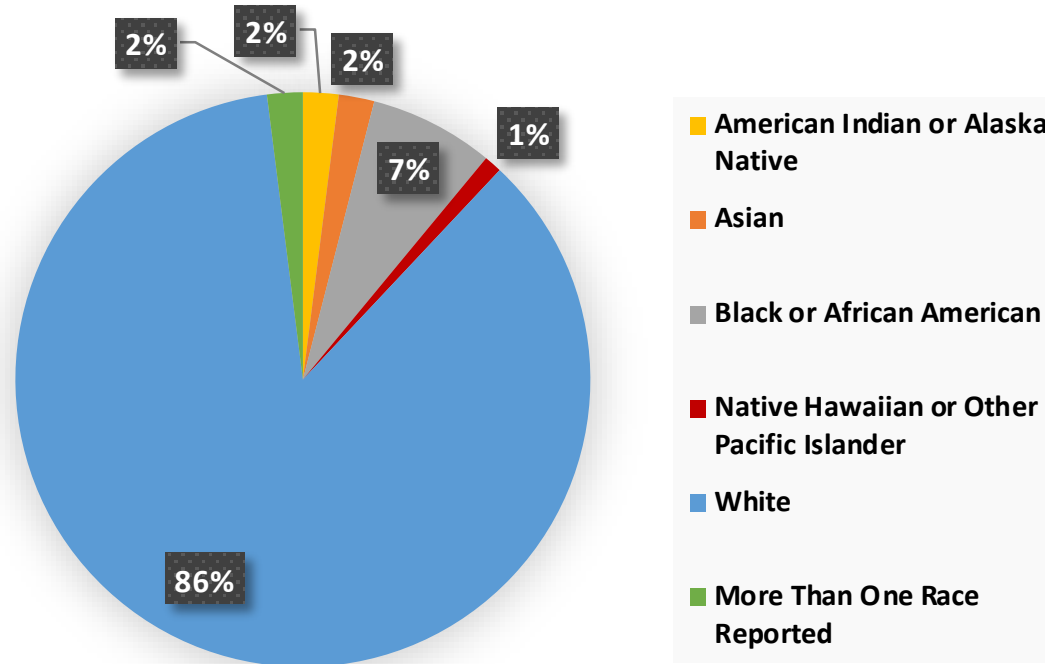
### Years Operating Any Farm



# 2022 Industrial Hemp Producer Characteristics – Age Group



# 2022 Industrial Hemp Producer Characteristics – By Race





**All Reports Available At**

**[www.nass.usda.gov](http://www.nass.usda.gov)**

**For Questions**

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