

*Myrna Tow*  
*Rec 3/16/21*

Myrna Tow <myrna.tow@edcgov.us>



## Hemp and the Medicinal Value of CBD

David Harde <davidharde123@gmail.com>  
 To: Myrna Tow <myrna.tow@edcgov.us>

Tue, Mar 16, 2021 at 9:57 AM

Hi Myrna, Please add to the information for the Hemp Advisory Committee the following, from: "Cannabis Investment Opportunities".

Thank you.

David Harde

"The understanding and knowledge of cannabis as a plant with medical utility took a qualitative leap in the mid-60s from the studies of Israeli scientist Raphael Mechoulam, who discovered not only cannabinoids such as tetrahydrocannabinol (THC) or cannabidiol (CBD), but also the endocannabinoid system: a network of receptors that works with cannabinoids generated by the body itself as a modulator or regulator of the nervous system.

So there are three types of cannabinoids: phytocannabinoids, i.e. of plant origin; endocannabinoids, which are generated by the organism itself, and synthetic cannabinoids.

Among the more than 120 cannabinoids that the plant has, two stand out for their importance: THC, which reaches concentrations close to 30%, and CBD, which reaches concentrations of 20% in the dried flower. The best known cannabinoid is tetrahydrocannabinol or THC, which causes the psychoactive effect, but also has medical use for various conditions. There is a long trajectory from the 60's onwards of genetic improvement in cannabis to increase the THC content, so there are varieties that approach a 30% THC content in the flower, which is where the highest concentration of trichomes is grouped, the small glands where the plant stores the cannabinoids<sup>1</sup>. The second most important cannabinoid because of its concentration in the plant and because it is not psychoactive - and therefore easier to administer to patients and trade on a global scale - is cannabidiol (CBD), a central product in any country's development strategy. In the case of CBD, the concentration obtained rarely exceeds 15% of the flower mass. The rest of the cannabinoids are present in low concentrations.

Although smaller in concentration, these cannabinoids are important. Raphael Mechoulam also postulates the entourage effect: several cannabinoids together have a better effect on patients than a single cannabinoid. This situation complicates medical use as it hinders the traditional approach of fixed compounds, standardized at 100%.

The study "Cannabidiol derivatives for medical use in children and adolescents: contributions for a responsible and safe use". The most robust evidence is in the use of CBD for the treatment of the

<sup>1</sup>The trichomes are also present in the leaves closest to the flower, so in addition to the demand per flower there is a market for "biomass", which is the sum of the flower and the upper third of the plant, close to the inflorescences.

various syndromes that make up what is commonly called "refractory epilepsy. Thus, it could be concluded that there is strong evidence of both the absence of psychoactive effects and severe contraindications of CBD and its usefulness in the treatment of some conditions. For other conditions, it mentions the treatment of chemotherapy-induced vomiting (VIQ).

One of the recent milestones in the scientific validation of the medical use of cannabis was the approval of a drug by the US Food and Drug Administration (FDA). On June 25, 2018 the FDA announced the approval of the use of Epidiolex, from GW Pharmaceutical, for two types of children's refractory epilepsies, through a press release. "

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Public Comment  
2/26/21  
Myrna Tow <myrna.tow@edcgov.us>

## Fwd: Hemp Ordinance Questions

**Charlene Carveth** <charlene.carveth@edcgov.us>  
To: Myrna Tow <myrna.tow@edcgov.us>

Tue, Mar 16, 2021 at 9:41 AM

This one should be in the comments

Charlene Carveth  
Agricultural Commissioner/Sealer of Weights & Measures  
El Dorado County Dept. of Agriculture/Weights & Measures  
311 Fair Ln.  
Placerville, CA 95667  
(530)621-5520

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----- Forwarded message -----

From: **Wild Oak Family Farm** <wildoakfamilyfarm@gmail.com>  
Date: Fri, Feb 26, 2021 at 8:09 AM  
Subject: Hemp Ordinance Questions  
To: <daniel.vandekoolwyk@edcgov.us>, Charlene Carveth <charlene.carveth@edcgov.us>

Hi Daniel & Charlene,

My name is Dan Hannig, my family and I moved to El Dorado County three years ago and started Wild Oak Family Farm. It has been very difficult to develop a profitable family farm business but after many false starts we have found that hemp has the best potential. Growing hemp has also enabled us to directly improve other's quality of life which was a big reason for us to start this farm. We grew the minimum amount of hemp allowed by CDFA last year, a tenth of an acre, which consisted of 40 CBD dominant plants and 40 CBG dominant. We are on 37 acres and as a result this field is ~1/4 mile away from any residences, but as you can imagine only 80 plants had no impacts beyond about 25 ft. My family processed the plants into a completely organic CBD+CBG Healing Balm and have been selling it for about a month so far. The results have been incredible! We've received amazing reports from cancer survivors and hip replacement patients that the balm is dramatically helping their pain and even allowing them to get some elusive sleep. Please feel free to read more about our balm here:

<http://wildoakfamilyfarm.com/product/cbdcbg-healing-balm/>. Many of these folks haven't been able to get relief through OTC or pharmaceutical medications and are incredibly grateful to find a non-toxic solution that works well.

I'm writing to you because I have a couple questions on the recent proposed ordinance. In Sec 130.43.101 #4 you've listed the parcels where hemp growing would be allowed and I noticed that Residential Estate (RE) is missing. That happens to be my parcel zoning (RE-20) and is likely also the parcel zoning for many other small farmers that would want to grow hemp. Was RE discussed and discarded? Or possibly overlooked? I double checked the Title 130 Master Plan and Residential Estate is described as "Agricultural structures and uses are considered compatible

with this zone." The conditional use matrix shows that "Crop Production", "Nursery, plants: Wholesale", etc are allowed in the RE zone without any additional permitting required. Charlene visited my hemp field location last year and can attest to the fact that I live in an agricultural area with livestock and crops grown right next to me. The neighboring parcels are all listed as Residential Estate, Rural Lands, or Agriculture. Can we add Residential Estate zoning to the ordinance?

For the property setbacks listed in Sec 130.43.104, have you considered setting a minimum acreage of hemp grown before the property setback comes into play? As I mentioned the "smell" from our tenth of an acre was not noticeable beyond 25ft even with the wind blowing at maximum. I doubt we'll ever grow over half acre, and even that seems a stretch, so it seems appropriate to have a minimum acreage before the property setback comes into effect. It was also unclear to me what happens when we're next to vacant or unused land? I think John Hidahl discussed something similar in the meeting, but it would also be helpful to call out if there is an exception when a property boundary has no structures or even uses on the adjacent parcel.

And my final question is what is the schedule for completing and approving the ordinance? I'll need to put plants in the ground in May and therefore already need to start securing sources for seeds or plants. A schedule would help all of us farmers out dramatically.

Many of the CDFA hemp regulations negatively affect small growers because they are geared toward big businesses with large revenues. I'm hoping this hemp ordinance could avoid further burdens. We've fallen in love with El Dorado County and would love to see it become a place that encourages small agricultural businesses.

Thanks,  
Dan  
805 458-2155



Myrna Tow &lt;myrna.tow@edcgov.us&gt;

*Public Comment 3/5/21***Fwd: Phyto Remediation of Contaminated Soils**

Charlene Carveth &lt;charlene.carveth@edcgov.us&gt;

Fri, Mar 5, 2021 at 11:11 AM

To: Myrna Tow &lt;myrna.tow@edcgov.us&gt;

Article link from David Harde for the Ad Hoc Committee.

Charlene Carveth  
Agricultural Commissioner/Sealer of Weights & Measures  
El Dorado County Dept. of Agriculture/Weights & Measures  
311 Fair Ln.  
Placerville, CA 95667  
(530)621-5520

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From: **David Harde** <davidharde123@gmail.com>  
Date: Fri, Mar 5, 2021 at 6:18 AM  
Subject: Phyto Remediation of Contaminated Soils  
To: Charlene Carveth <charlene.carveth@edcgov.us>

Hi Charlene,

I believe you may be interested in this article. El Dorado County's pear and apple orchard's contaminated soils could benefit from hemp planting, end use: Construction materials! Please forward to the Hemp Advisory Committee.

Thank you.

David Harde

<https://hemptoday.net/italian-researcher-says-stalks-from-polluted-soil-ok-for-building-energy/>

from David Hurd 3/5/21

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# Italian researcher says stalks from polluted soil OK for building, energy



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Hemp grown to clean up polluted soil could be used for hempcrete construction and to produce energy, with

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virtually no health risks, an Italian researcher has suggested.

Vito Gallo, Professor of Chemistry at the Polytechnic of Bari, said the hemp plant's performance in the phyto-remediation (phyto-purification) process leaves only trace amounts of any pollutants behind.

"Hemp allows a sort of dilution of metals in the biomass and this results in material that, in principle, presents very limited or even no health risks," Gallo, who is also coordinator of BIO project SP.HE.RE., a hemp-specific research initiative, told [Canapa Industriale](#).

Gallo suggested that scientific organizations could get together to set acceptable levels of concentration of any foreign substances in downstream hemp products.

## Robust research

Italian stakeholders are working on significant research regarding phyto-remediation, in which specific plants are grown both to clean up pollutants such as heavy metals, and to stimulate the degradation of organic compounds to enrich the soil. Hemp has proven itself to be highly effective in both roles, as Italian scientists have set out to further document.

The question has always been what would be done with the adulterated hemp once it's harvested from polluted fields.

Italian researchers have posited that most of the heavy metals absorbed by hemp are stored in the roots and leaves of the plant, leaving only miniscule amounts in the hemp stalk, and continue to study that process.

## Hemp and soil

The research in Italy builds on studies from as far back as 2002, when researchers from the University of Wuppertal and the Faserinstitut of Bremen, Germany, showed that

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- New Earth Garden CBD, Pennsylvania, USA
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hemp plants sown for remediation collected most heavy metals in the leaves, while plant stalks were virtually unaffected by contamination. A later study in India in 2014 identified hemp as a promising tool for the hyperaccumulation of heavy metals such as arsenic, lead, mercury, copper, chromium and nickel. Further studies since then have underpinned the analysis.

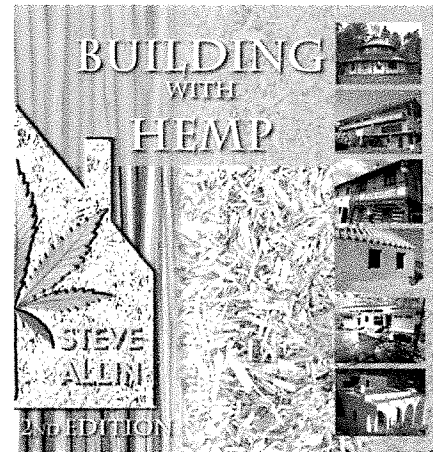
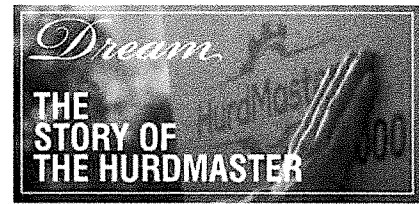
In addition to using the hemp stalks for hempcrete, hemp biomass can be burned for energy. With the ashes collected under controlled conditions, the metals can be extracted and re-used, Gallo said.

## Sustainable new system

“The use of hemp for phyto-remediation would not only lead to the creation of a new system of land use linked to environmental protection, but also to the creation of jobs and sustainable resources for the community, according to the principles of the green economy and bio-economy,” said Marcello Colao, a biologist at the Italian non-profit Association of Apulian Environmental Biologists (ABAP), which is also studying phyto-remediation.

Colao is directing the GREEN project (Generate Resources And New Economies), which is studying different varieties of hemp and ranking them for their phyto-remediation capacity. That research, in partnership with the region of Puglia government, is part of a broader initiative that is researching hemp for its potential in sustainable development and carbon sequestration, and developing strategies for improved agricultural management practices.

Also supported by the Puglia government, BIO SP.HE.RE, the project under Gallo’s direction, is studying a mixture of micro-algae and hemp to see how it can enhance the phyto-purification of both water and soil. The researchers have reported that lab analysis showed the mix facilitated growth of hemp plants in polluted soil, thereby speeding up the phyto-remediation process; hemp plants were



HT Editions:





particularly effective at absorbing cadmium, nickel and zinc, the team said.

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Myrna Tow <myrna.tow@edcgov.us>

*Public Comment Rec 2/24/21*

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**New online Purdue course takes a comprehensive look at hemp as a crop and product - Purdue University News**

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Heart Hemp <hearthehbiz@gmail.com>

Wed, Feb 24, 2021 at 7:47 AM

To: Myrna Tow <myrna.tow@edcgov.us>

Hi Myrna,

Please forward to members of the Hemp Advisory Committee for review and consideration before today's meeting.  
Thank you.

Best,

David

<https://www.purdue.edu/newsroom/releases/2021/Q1/new-online-purdue-course-takes-a-comprehensive-look-at-hemp-as-a-crop-and-product.html>

Thank You,

Heart Hemp

@hearthehbiz

January 7, 2021

# New online Purdue course takes a comprehensive look at hemp as a crop and product



WEST LAFAYETTE, Ind. – A new, old industry. That’s how the U.S. Department of Agriculture characterizes hemp, a versatile crop grown around the world for thousands of years, including in the U.S., before being effectively outlawed in the 1970s because hemp and marijuana are from the same plant.

The 2018 Farm Bill legalized hemp again. But while the crop is now a viable alternative with a potentially global market, there isn't exactly an abundance of research-backed information and training available about producing, processing and selling it. The new online Hemp Essentials course from Purdue University addresses that, going beyond just production, although that topic certainly is covered.

"You can find these things separately, but nothing else goes into this depth in one place," said Marguerite Bolt, hemp extension specialist in the Purdue College of Agriculture's Department of Agronomy. "You're going to get a comprehensive view of the hemp industry."

The curriculum covers the history and legalities of hemp production, including how to grow and harvest the plant, as well as the many applications that hemp has and the economics of the industry. For farmers, hemp can be an alternate cash crop and something new to add to a crop rotation.

The course is for current hemp producers and farmers thinking of getting into the business, certified and other crop advisors and consultants, and people in hemp product manufacturing or sales, as well as individuals with an academic or educational interest. It includes some information specific to Indiana, but the content has broad applicability throughout the Midwest and beyond.

"Acreage across the U.S. has gone up each year," said Bolt, the primary developer and instructor for Purdue's online Hemp Essentials course. "There are new markets being created for hemp and hemp-based products. I get emails or calls every day."

Tens of thousands of products can be made from or include some elements of the hemp plant. Products containing cannabidiol (CBD) derived from hemp are nearly ubiquitous these days in grocery stores, drug stores and health food stores, and even in gas stations. Hemp has been used for some time in textiles and paper, as a grain for food products (hemp hearts), and hemp oil in soap and culinary products. More recently, the plant has been converted to fiber employed in biocomposites for automobile parts, such as

dashboards; pressed into wood-like materials, among other things for flooring; and used to make animal bedding. The interior of the hemp stalk is highly absorbent. Researchers are examining it as a graphene replacement in batteries.

What hemp isn't is marijuana. Same plant species, but hemp, which is nonintoxicating, contains 0.3% or less of the psychoactive ingredient tetrahydrocannabinol (THC) in marijuana. In states where recreational and medicinal marijuana are legal, claims of 10%-20% THC are not uncommon. The two crops are covered by different laws and regulations, and marijuana, unlike hemp, is still an illegal crop in some states.

More than just lecture videos, Hemp Essentials features abundant interactive and multimedia content. The online course is self-paced, and individuals taking it have access for three months once they begin. The tuition is \$500 for Indiana residents and \$550 for out-of-state students. There are no prerequisites, but a basic understanding of plants and soil is recommended.

The course has five modules:

- Introduction to Hemp, covering its uses from ancient to modern times and current legal status nationally and globally.
- Botany and Genetics, covering the anatomy, botany and genetics of the hemp plant (*Cannabis sativa*), including plant compounds of interest.
- Production and Management, covering such topics as production methods for grain, fiber and high-cannabinoid hemp, as well as managing weeds, diseases and insects.
- Harvest, Processing, and Products, covering processing and applications for grain, hurd, cannabinoids and essential oils.
- Economics, covering the present and potential future economic state of the hemp industry and supply and demand.

More information on Purdue's online Hemp Essentials course and to registration are available **[here \(https://www.eventreg.purdue.edu/info/hemp-essentials/\)](https://www.eventreg.purdue.edu/info/hemp-essentials/)**.

**Writer:** Greg Kline, 765-426-8545, **[gkline@purdue.edu \(mailto:gkline@purdue.edu\)](mailto:gkline@purdue.edu)**

**Source:** Marguerite Bolt, **[mbolt@purdue.edu \(mailto:mbolt@purdue.edu\)](mailto:mbolt@purdue.edu)**

**Agricultural Communications:** 765-494-8415;

Maureen Manier, Department Head, [mmanier@purdue.edu](mailto:mmanier@purdue.edu)

(<mailto:mmanier@purdue.edu>)

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- **[Farm financials workshop offered through Purdue Extension \(http://www.purdue.edu/newsroom/releases/2021/Q1/farm-financials-workshop-offered-through-purdue-extension.html\)](http://www.purdue.edu/newsroom/releases/2021/Q1/farm-financials-workshop-offered-through-purdue-extension.html)**
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Myrna Tow &lt;myrna.tow@edcgov.us&gt;

*Public Comment Rec-herby***Fwd: Hemp Farming Quadrupled In The U.S. This Year, New Report Shows**

Charlene Carveth <charlene.carveth@edcgov.us>  
To: Myrna Tow <myrna.tow@edcgov.us>

Wed, Feb 24, 2021 at 8:49 AM

FYI

Charlene Carveth  
Agricultural Commissioner/Sealer of Weights & Measures  
El Dorado County Dept. of Agriculture/Weights & Measures  
311 Fair Ln.  
Placerville, CA 95667  
(530)621-5520

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From: **David Harde** <davidharde123@gmail.com>  
Date: Wed, Feb 24, 2021 at 8:42 AM  
Subject: Fwd: Hemp Farming Quadrupled In The U.S. This Year, New Report Shows  
To: Charlene Carveth <charlene.carveth@edcgov.us>

Hi Charlene,

I have forwarded these comments to various participants in today's hemp advisory meeting.

Best,

David Harde

The cultivation and value of hemp is here. Let's not miss out on the tax revenue, employment and commodity value of this agricultural product. The possible banning or unnecessary and restrictive regulations on this industry in the county will seriously limit our competitive advantage as an agricultural community. Our hemp planting this year will be May 1, 2021. Our current Registration and Cultivation approval will expire June, 18, 2021. Our harvest is anticipated to be completed by October 14, 2021.

Processing and extracting our USDA ORGANIC Hemp is the source ingredient for our HEART HEMP retail line of CBD health and beauty products to be launched this summer. Financially, we have invested a considerable sum of time and financial resources to realize our local, Organic Hemp CBD business.

We recommend the committee allow the issuance of new hemp planting permits in El Dorado County this year without unnecessary, expensive and restrictive regulations. Thank you.

2/24/2021

Edcgov.us Mail - Fwd: Hemp Farming Quadrupled In The U.S. This Year, New Report Shows

Sincerely yours,

David Harde  
EDC Hemp Permit # 09-200008G

<https://www.forbes.com/sites/tomangell/2019/09/05/hemp-farming-quadrupled-in-the-u-s-this-year-new-report-shows/?sh=37b84c32487d>



Sep 5, 2019, 11:29am EDT | 14,363 views

# Hemp Farming Quadrupled In The U.S. This Year, New Report Shows



**Tom Angell** Former Contributor © ⊕  
Policy

The amount of land on which U.S. farmers are licensed to grow hemp has more than quadrupled this year. That's according to a report released on Thursday by advocacy group Vote Hemp.



Getty GETTY

Under the provisions of the 2014 Farm Bill, farmers have been able to grow crops for limited hemp research programs. But thanks to a new version of

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the large-scale agriculture legislation passed and signed into law late last year, the plant is now officially legal under federal law as long as farmers comply with state rules.

U.S. farmers have been licensed to grow 511,442 acres of marijuana's non-intoxicating cannabis cousin this year—a 455 percent increase over 2018 levels—according to Vote Hemp's annual survey of state agriculture departments.

That's up from 78,176 acres grown last year, 25,713 acres in 2017 and 9,770 acres in 2016, the group reported.

That said, Vote Hemp notes that it is usually the case that less hemp is actually grown than what is allowed under licensed acreage, so the organization plans to update its figures at a later date to reflect actual harvests. Still, it estimates that 230,000 acres of hemp will be planted in 2019 and 115,000 to 138,000 acres will end up being harvested—a huge increase from 2018 in any case.

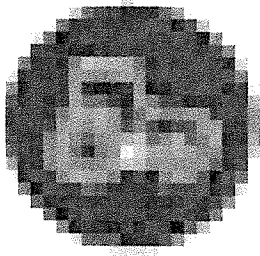
Thirteen states enacted new hemp legalization laws this year following the removal of hemp from the federal Controlled Substances Act via the 2018 Farm Bill—with the only states not yet on board being Idaho, Mississippi, New Hampshire and South Dakota.



Photo courtesy of Vote Hemp. PHOTO COURTESY OF VOTE HEMP.

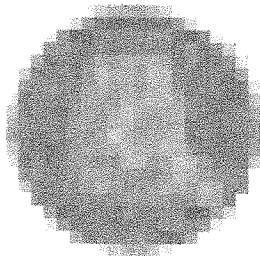
“We are seeing hemp cultivation dramatically expand in the U.S. in 2019, with over quadruple the number of acres licensed in hemp compared to last year and the addition of 13 more states with hemp programs,” Vote Hemp President Eric Steenstra said in a press release. “Now that we have lifted federal prohibition on hemp farming, it’s time build the infrastructure and expand hemp cultivation and the market for hemp products across the country so that all can reap the benefits of this versatile and sustainable crop.”

A total of 16,877 state licenses to cultivate hemp were issued to farmers and researchers this year, a 476 percent increase over 2018, the group found. Additionally there was a 483 percent annual jump in hemp processing licenses issued in 2019.



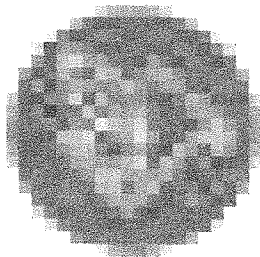
511,442

Number of hemp farmers in the U.S.



34

Number of states that have legalized hemp



16,877

Number of hemp acres in the U.S.

Photo courtesy of Vote Hemp. PHOTO COURTESY OF VOTE HEMP.

The U.S Department of Agriculture is expected to release its hemp legalization regulations soon. After those are finalized, federal regulators will be able to approve state hemp proposals under which farmers will be able to grow the crop at a large scale in the coming growing season.

Last week the department announced that hemp farmers are eligible for federal crop insurance.

The Federal Credit Union Administration clarified last month that credit unions are allowed to maintain accounts for hemp businesses.

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Also last month the Environmental Protection Agency announced it is reviewing applications for pesticides to be used on hemp crops.

Meanwhile, the Food and Drug Administration is considering ways in which hemp-derived CBD can be allowed in food products or nutritional supplements.

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**Tom Angell**

I'm a 15-year veteran of the cannabis law reform movement, and I know where to look to spot the most interesting legalization developments. I'm the editor of the cannabis...

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*Public comment rec. 2/24/21*  
Myrna Tow <myrna.tow@edcgov.us>

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## DRAFT HEMP REGULATIONS EDC

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Heart Hemp <heartheppbiz@gmail.com>  
To: Myrna Tow <myrna.tow@edcgov.us>

Wed, Feb 24, 2021 at 10:57 AM

Please submit my comments to the Hemp Advisory Meeting today, regarding the proposed regulations:

In regard to the following D. Industrial Use Permit Requirement: I strongly oppose this requirement. The financial costs are prohibitively excessive and unnecessary. The requirements are a defacto prohibition of a legal, USDA Agricultural crop. This requirement would be, undoubtedly, be challenged through the courts, resulting in excessive costs to the County of El Dorado.

D. Issuance of an Industrial Hemp Conditional Use Permit under this Chapter is a discretionary act requiring compliance with the California Environmental Quality Act ("CEQA") and the applicant shall comply with Article 5, Section 130.51.030 (Environmental Review). The applicant shall be responsible for all costs associated with CEQA compliance, including but not limited to environmental analysis and studies, preparation of the appropriate CEQA document, and all County staff time, including attorney time, spent reviewing and pursuing final adoption of the appropriate environmental document.

Thank You,

David Harde  
Somerset Gourmet Farm  
Heart Hemp