Public Comment - Group 2

#4

Ramirez, Angelica

From:

Good Farmers Great Neighbors <noreply@123formbuilder.io>

Sent:

Thursday, March 12, 2020 5:14 PM

To:

County Executive Office

Subject:

Support Busy Bees Organics Right to Farm

Caution: This email originated from a source outside of the County of Santa Barbara. Do not click links or open attachments unless you verify the sender and know the content is safe.

Name

Email Address

fuhrmy@gmail.com

Address

7642 Newport drive Goleta Ca 93117

United States

Subject

Support Busy Bee's Organics' Right to Farm

Message

To the Honorable Santa Barbara County Board of Supervisors:

Sara Rotman and her husband Nate Diaz are a shining model for our county's budding cannabis industry. As local Buellton residents, farmers and owners of Busy Bee's Organics, they care deeply about the land they live and farm on and their investment to the community. Their tireless efforts to innovate best practice farming standards, including odor control and drip irrigation, is evidence of their commitment to running a sustainable, organic farm.

This commitment to going above and beyond compliance regulations earned them unanimous approval from the Santa Barbara County Planning Commissioners with a 5-0 vote, which included a strong recommendation of support from County Planning Department staff and consultants.

As dedicated farmers, Sara and Nate are passionate about Santa Barbara County's proud tradition of agriculture. Busy Bee's Organics has exceeded the demands of regulators as pioneers of sustainable farming practices in the county and the state. Their best practices include adopting and implementing the highest management standards in pesticide-free organic cannabis cultivation, fair wages, odor prevention, and environmental stewardship.

Busy Bee's Organics takes every opportunity to educate and learn with the community, providing educational tours and organized meetings with local civic, business, and community leaders. This collaboration has promoted innovation in ecotourism strategies and growth in our local economy that benefit all residents.

As a community member, I ask you to join us in support of Busy Bee's Organic's Right to Farm. The Planning Commission has made it clear with their unanimous vote: Sara and Nate's commitment to our heritage of sustainable and

1

safe farming is unwavering.

From: Good Farmers Great Neighbors <noreply@123formbuilder.io>

Sent: Thursday, March 12, 2020 5:12 PM

To: County Executive Office

Subject: Support Busy Bees Organics Right to Farm

Caution: This email originated from a source outside of the County of Santa Barbara. Do not click links or open attachments unless you verify the sender and know the content is safe.

Name Juan Alfaro-Campos

Email Address jalfarocampos@ucsb.edu

Address 6598 Seville road 11

Isla Vista CA 93117

United States

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From: Good Farmers Great Neighbors <noreply@123formbuilder.io>

Sent: Thursday, March 12, 2020 4:35 PM

To: County Executive Office

Subject: Support Busy Bees Organics Right to Farm

Caution: This email originated from a source outside of the County of Santa Barbara. Do not click links or open attachments unless you verify the sender and know the content is safe.

Name Steven Waltermire

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Address 6788 sabado tarde Unit B

Isla vista CA 93117

United States

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Sent: Thursday, March 12, 2020 4:35 PM

To: County Executive Office

Subject: Support Busy Bees Organics Right to Farm

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Name Christina Tseng

Email Address Christina tseng@hotmail.com

Address 341 Dogwood Dr

Buellton CA 934276809

United States

Subject Support Busy Bee's Organics' Right to Farm

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safe farming is unwavering.

From:

Miyasato, Mona

Sent:

Friday, March 13, 2020 1:02 PM

To:

sbcob

Subject:

FW: Support Busy Bees Organics Right to Farm

From: County Executive Office <caoemail@co.santa-barbara.ca.us>

Sent: Friday, March 13, 2020 12:40 PM

To: Melekian, Barney <bMelekian@countyofsb.org>; Miyasato, Mona <mmiyasato@countyofsb.org>

Subject: FW: Support Busy Bees Organics Right to Farm

From: Good Farmers Great Neighbors < noreply@123formbuilder.io>

Sent: Friday, March 13, 2020 11:39 AM

To: County Executive Office < caoemail@co.santa-barbara.ca.us>

Subject: Support Busy Bees Organics Right to Farm

Caution: This email originated from a source outside of the County of Santa Barbara. Do not click links or open attachments unless you verify the sender and know the content is safe.

Name

Rebecca Tucker

Email Address

becca.tannebring@gmail.com

Address

Santa Barbara Ca 93105

United States

Subject

Support Busy Bee's Organics' Right to Farm

Message

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From: Miyasato, Mona

Sent: Friday, March 13, 2020 1:10 PM

To: sbcob

Subject: FW: Support Busy Bees Organics Right to Farm

From: County Executive Office <caoemail@co.santa-barbara.ca.us>

Sent: Friday, March 13, 2020 9:57 AM

To: Melekian, Barney <bMelekian@countyofsb.org>; Miyasato, Mona <mmiyasato@countyofsb.org>

Subject: FW: Support Busy Bees Organics Right to Farm

From: Good Farmers Great Neighbors < noreply@123formbuilder.io >

Sent: Friday, March 13, 2020 3:25 AM

To: County Executive Office < caoemail@co.santa-barbara.ca.us>

Subject: Support Busy Bees Organics Right to Farm

Caution: This email originated from a source outside of the County of Santa Barbara. Do not click links or open attachments unless you verify the sender and know the content is safe.

Name Beth Long

Email Address bethlong 10@yahoo.com

Address 305 Third St

Solvang CA 93463

United States

Subject Support Busy Bee's Organics' Right to Farm

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From:

Tyler Thomas <tyler@dierbergvineyard.com>

Sent:

Friday, March 13, 2020 11:22 AM

To:

sbcob

Subject:

Busy Bee Hearing

Attachments:

Busy Bee Appeal - SL and DB.pdf; Essential oil of Cannabis sativa L. strains.pdf

Caution: This email originated from a source outside of the County of Santa Barbara. Do not click links or open attachments unless you verify the sender and know the content is safe.

Greetings,

I would like to submit the following for the Board of Supervisors hearing record on the Busy Bee Cannabis cultivation appeal March 17th. The Essential oil file is an attachment reference in my letter.

Tyler

--

Tyler Thomas Star Lane • Dierberg Vineyards President • Winemaker 805.697.1454 (winery direct) 805.245.3484 "Keep fermenting" - Someone



March 13, 2020

Santa Barbara County Board of Supervisors RE: Busy Bee Cannabis Cultivation Permit

Dear Chair and Supervisors of the Board

I am President of Star Lane & Dierberg Vineyards, LLC, a member of the AAC, and a member of the Board of Santa Barbara Vintner's Association. I represent several interested parties: both wine growers and winemakers. We have several concerns with the upcoming appeals of cannabis projects because, along with other agriculture entities, we believe <u>large scale</u> cannabis grows are not compatible with conventional & legacy agriculture under the current ordinance.

We urge the following actions:

- 1. Please continue these appeals until the Planning Commission has time to make recommendations to the cannabis ordinance. The PC is pursuing amendments per your direction, are making reasonable progress, and will likely recommend amendments that could impact Santa Rita Valley Ag's operation. Its stands to reason they should be able to complete that work prior to precedent setting grows are permitted.
- 2. If #1 is not possible, please consider the following conditions to the projects:
 - a. Limit terms of LUP to 2 years.
 - b. Contain odors within the commercial cannabis activity. It is our opinion this can best be accomplished by:
 - i. Capping outdoor grows in Ag II to 10 acres or less (this would be substantially higher allowance than all other county's).
 - 1. I drive the Highway 246 frequently and can attest that the 9 acres of cannabis cultivation that Busy Bee farms does smell up to 0.4 miles east of the property at peak flowering. Keeping their grow at this scale will limit the frequency and time with which that odor occurs. If the grow is allowed to expand per their request, odor control will become a nuisance.
 - ii. Increase vegetative screening along eastern border.
 - iii. Adding 3,000 foot setbacks
 - iv. Prohibit onsite drying.
 - c. Require a release of liability for legally applied crop management materials, tools, and practices.

A few facts that drive our decisions:

- In at least two cases SB Vintner members lost tens of thousands of dollars of crop to powdery mildew because they changed legal spray practices due to threatened litigation from a neighboring cannabis grower.
- We've discovered that total wine sales account for ~\$165,000,000 in taxable revenue, and only 13% of wineries account for 55% (\$90+ million) of that total. The majority (85%) of these top 35 wineries are in rural Ag II areas and their business would be significantly impacted by cannabis odors.
 - We would expect to see a desire from the County to increase its revenues. We share that desire. However we would hope that revenue generation would be new, not at the expense of existing business such as rural wineries.

- Our product is principally valued on its aromas (70%) and taste (30%). Persistent and even semi-frequent cannabis odors will have an impact on our customer's ability to assess the value of our product.
- A cannabis grower's (Hacienda project) own study verified the potential for terpene drift
 to taint grapes. A fine-tooth comb through said study suggest less than 2 weeks' time is
 needed for drift of beta-Myrcene (the principal terpene released from most cannabis
 strains see attached paper) to occur.
 - Their model suggested it took 75 days to reach 330 parts per billion (ppb) of beta-Myrcene. Our winemakers agree that anything in near 50 ppb would generate concern. I have since purchased pure beta-myrcene and spiked wine at various ppb levels (50, 100, and 200). A series of triangle tests (3 glasses: 2 are the same and 1 is different and subjects are asked to pick the one that is different) revealed that subjects could detect a difference in the wine's aroma at 50 ppb. This was at a p-value<0.005 which is a statistical significance. P-value<0.005 is like saying there is a 0.5% chance the data occurred randomly. In other words: it causes a difference at 50 ppb.
 - If 50 ppb is a concern, and 50 of 330 is 15%, then the 75 days it took for betamyrcene to get to 330 ppb could mean it would only take 11 days to reach 50 ppb. This is well within the range of odor emissions that cannabis growers suggest will occur.

When the Board of Spervisors made their overriding considerations for the unmitigated impacts contained in the PEIR, we do not believe this evidence was taken into consideration. Please let your Planning Commission finish their work and continue these appeals until we all can revise the ordinance.

Thank you for your continued efforts to guide our county,

Tyler Thomas, President, Star Lane and Dierberg Vineyards.

Essential oil of Cannabis sativa L. strains

Vito Mediavilla and Simon Steinemann

Swiss Federal Research Station for Agroecology and Agriculture, Reckenholzstrasse 191, 8046 Zurich, Switzerland E-mail: vito.mediavilla@fal.admin.ch http://www.admin.ch/sar/fal/). Mediavilla, Vito and Simon Steinemann 1997. Essential oil of Cannabis sativa L. strains. Journal of the International Hemp Association 4(2): 80 led to a pleasing scent in the resulting essential oils. We compared the composition and smell of some fiber hemp and drug Cannabis essential oils isolated have on the quality of the essential oil. The Δ^9 -tetrahydrocannabinol (THC) concentration in the essential oils was very low and varied between 0.02% and 82. The aroma of hemp (Cannabis sativa L.) could be of considerable commercial value if evaluation of varieties and development of extraction methods desireable scent. These preliminary one-year results do not take into account the influence that harvest time and the weather "just-before-harvest" could by steam distillation. The essential oil of some hemp strains contained particular monoterpenes and sesquiterpenes that imparted to the specimen a 0.08%. The ratio of this compound to cannabidiol showed only small changes during steam distillation.

Introduction

monoterpenes and sesquiterpenes (Lehmann 1995). Hashish detection dogs, for example, do not smell Δ^9 -tetrahydrocannabinol (THC) but are able to smell The Cannabis smell is a peculiarity of this plant. Its aroma does not originate from the terpenophenolic cannabinoids, but from the more volatile the sesquiterpene caryophyllene oxide (Stahl and Kunde 1973). According to Turner et al. (1980) 58 monoterpenes and 38 sesquiterpenes have been identified in hemp. Using steam distillation, it is possible to concentrate most of these components to an essential oil.

Many utilizations for hemp essential oil are known. They impart the typical Cannabis aroma to such products as cosmetics, soaps, shampoos, creams, oils, perfumes and also to foodstuffs. Additional possible uses are for aroma therapy and as a means for plant protection. According to McPartland (1997), two essential hemp oil components (limonene and alpha-pinene) have a repellent effect against many insects. The bacteriostatic activity of hemp essential oil has been reported by Fournier et al. (1978). Although first trials of hemp essential oil used against potato late blight (Phytophthora infestans) were not promising (Krebs 1996), cannabinoid antifungal activity cannot be discounted.

The aim of the work presented here was to assess the variability of hemp essential oil from different Cannabis strains.

Materials and methods

distilled. Steam distillation in a copper still with 0.5 kg plant material took 30 minutes. The essential oil was collected using a lighter-than-water volatile oil harvested between the end of flowering and seed ripeness. Flowers and the upper leaflets of female or hermaphrodite plants were cut by hand and freshly Fiber and drug cultivars (Tab. 1) were grown in 1996 near Zurich, Switzerland (approximately 47° 25' N, 8° 30' E, 400 m elevation). The crop was apparatus consisting of a glass funnel. Monoterpene and sesquiterpene analyses were carried out by GC/MS, and cannabinoid analyses by GC alone.

Scent tests were performed with 15 volunteers who took part in smelling hemp essential oils diluted with jojoba oil (1:5)

Table 1. Hemp strains and harvest stage.

	Genotype	Type	Origin	Stage at Harvest
⋖	'Férimon 12'	fiber	France	seed ripeness
В	Fédora 19'	fiber	France	seed ripeness
ن	'Félina 34'	fiber	France	seed ripeness
Ω	Futura 77	fiber	France	seed ripeness
ш	'Kempolti'	fiber	Hungary	end flowering
Ľ.	Kompolti hibrid TC	fiber	Hungary	end flowering
Ŋ	'Uniko-B'	fiber	Hungary	seed ripeness
Ħ	FxT	fiber	Hungary	seed ripeness
_	'Fibramulta 151'	fiber	Romania	seed ripeness
-5	Trene'	fiber	Romania	seed ripeness
×	Lovrin 110'	fiber	Romania	seed ripeness
اد	'Secuieni 1'	fiber	Котапіа	seed ripeness
Σ	Livonie (landrace)	fiber	Latvia	seed ripeness
z	'Novosadska'	fiber	Yugoslavia	end flowering
0	Swissmix *	drug	Switzerland	end flowering
ے	Swissmix *	drug	Switzerland	seed ripeness
0	Amtbol 398	drug	Bolivia	end flowering
22	B 3985 TE	drug	Bolivia	end flowering
S	Skunk	drug	USA	flowering

^{* =} strain mixture

Results

The yield of hemp essential oil amounted to approximately 1.3 liter/ton fresh weight, which corresponds to about 10 liters per hectare. No quantitative yield assessment was done.

We could characterize 16 terpenoid compounds in the essential oil of different Cannabis strains (Tab. 2). The concentration of monoterpenes was

48.6%. The most abundant substance was myrcene, followed by trans-caryophyllene, alpha-pinene, trans-ocimene and alpha-terpinolene. The composition of the different essential oils varied greatly. For example, the oil of strain B 3985 TE was rich in alpha-pinene, beta-pinene and limonene concentration, 'Felina 34' was high in *alpha*-terpinolene and the fiber cultivar 'Ferimon 12' had a large caryophyllene oxide concentration. Drug types were generally lower in caryophyllene oxide content. The best fragrance rating ("quite good") was 'Felina 34', and the one with the least favorable rating ("quite bad") generally higher than that of sesquiterpenes, varying from 47.9% to 92.1% of total terpene content. Sesquiterpene concentrations varied from 5.2% to was 'Fedora 19' (Tab. 2).

THC concentration in the essential oil was very low, even in drug varieties, reaching 0.08% in Swissmix (Tab. 3). THC concentration was lower and the ratio of THC to cannabidiol was not higher in the essential oil compared to the inflorescences.

Table 2. Chemical composition of essential oils of some Cannabis sativa L. strains.

Table 2. Chemical composition of essential oils of some Cannabls sativa L. strains

Compound	1979	B	ت ت	2	-	-	4												
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v						-			<u>&</u>	Percentage							1		
arene		3,4	5.6	10.3	7.0	12.1	9.8	5,3	3,8	7.7	4,1	7.2	2.3	8.6	8.4	6.0	8.8	31.0	16.5
агепе		0.7	1.2	1.4	2.1	2.6	1.4	6.0	6.0	8 0.	1.3	4.1	9.0	1.5	1.6	1.3	2.4	7.8	4.9
		0.2	0.2	9.0	ц	8.0	Ħ	b	ㅂ	ㅂ	ם	ㅂ	15	0.6	1.0	8.0	3.5	2.7	0.2
		29.4	44.7	48.6	57.9	42.9	62.0	50.7	57.2	55.8	65.8	50.9	40.5	50.9	49.3	37.6	46.6	38,3	8.54
	6:0	0.2	0.2	9.0	2.2	1.1	8.0	0.5	0.3	8.0	8.1	9.0	0.8	6.0	6.0	1.5	3.2	6.9	4.3
Irene	0.5	0.3	9.0	0.4	0.4	0.3	0.3	0.2	4.0	0.3	0.3	6.0	0.2	0.3	0.4	0.4	0.4	0.2	0.4
cis-Ocimene	צ	0.3	0.2	ħ	ħ	0.2	5	0.3	5	5	ב	0.2	0.2	0.2	0.2	0.3	5	5	ä
	0.4	69	6.9	3.5	0.7	10.2	8.0	5.9	7.2	4.7	0.5	5.4	4.2	10.2	2.3	5.7	5.9	0.7	0,3
alpha-Terpinolene	ם	7.1	23.8	14.2	13.5	7.7	0.5	2.8	11.0	4.0	9.0	5.6	3.1	6.5	5.6	3.4	15.3	4.5	4.0
alpha-Bergamotene 0	8.0	0.5	0.5	0.4	ь	0.3	0.4	0.4	Ħ	9.0	0.5	4.0	0.1	0.3	4.0	9.0	늄	ㅂ	0.7
trans-Caryophyllene 30	30.3	37.5	12.4	14.6	11.0	18.9	13.0	27.7	16.6	19.7	17.7	18.9	35.6	16.2	19.5	31.4	10.8	3.8	16,1
alpha-Humulene	2.7	7.4	1.9	2.0	1.3	2.2	1.9	6.1	1.7	2.0	<u>-</u>	3.2	6.7	1.6	3.3	3.4	1.2	0.7	2.8
a)	0.7	1:0	0.7	9.0	0.2	0.3	0.5	6.0	ㅂ	0.7	0.3	0.7	1.1	0.3	9.0	6.0	5	0.2	1.4
	0.4	0.4	0.2	Þ	ф	TT	Ħ	Ħ	ь	ㅂ	ם	ㅂ	0.3	Þ	0.2	4,0	0.5	ь	0.4
Selina-3,7(11)-diene 0	0.5	0.5	0.2	0.3	0.2	ь	0.2	0.2	Ħ	0.2	0.3	0.2	0.3	Þ	0.4	0.7	0.4	0.5	9.0
<u>ج</u>	11.3	1.3	0.5	0.4	0.5	0.3	2.2	0.7	0.5	9.0	2.0	0.7	1.2	0.3	0.7	8.0	5	ㅂ	6,0
	47.9	48.4	83.4	79.6	83.8	7.77	74.2	66.4	80.7	74.9	74.4	71.4	51.8	7.67	1.69	6.95	85.9	92.1	73.5
enes	44.9	47.5	16.1	16.4	10.8	22.0	15.8	30.5	18.3	21.4	20.0	22.7	43.9	17.2	23.7	37.0	12.9	4.0	21.7
Smell rating **	2.3	1.3	2.7	2.3	2.3	2.5	1.8	2.3	2.3	2.2	2.5	2.6	1.5	2.4	2.3	2.4	2.3	2.0	2.5

tr = traces (<0.1%)

^{*} mixture of different strains

^{**} scale: 0=vcry bad, 1=bad, 2=medium, 3=good, 4=very good

Genotype		Percentage	ntage	THC-CBD
		ТНС	СВD	ratio
Fédora 19'	inflorescences *	0.19	1.37	0.14
	essential oil **	0.02	0.25	0.07
Swissmix	inflorescences	1.28	0.61	2.10
	essential oil	0.08	0.04	2.00

THC = ? -tetrahydrocannabinol CBD = cannabidiol

* not distilled dry material

** from fresh steam distilled inflorescences

Discussion

The characterized compounds are the major constituents of hemp essential oil as described by Hendriks et al. (1975), Turner et al. (1980) and Ross and ElSohly (1996). Because of its low volatility and water insolubility (Malingré et al. 1975), THC concentrations in the essential oils were low. Therefore, the use of this steam distilled oil for drug purposes is not expected.

oxide concentration) got a high rating. Surprisingly, a mixed oil from different strains received the best rating. This could be an important consideration for Smell is, of course, a very subjective phenomenon. For that reason, smell test ratings varied considerably. Oils with high sesquiterpene concentrations received a low rating, meaning that they smelled badly. In contrast, oils with high monoterpene percentages (but a low alpha-humulene or caryophyllene future commercial use.

These preliminary results must be interpreted with caution. Harvest stage and the weather "just-before-harvest" may influence the quality of this essential oil, which could be developed into a promising product for the cosmetic, food, medical and plant protection sectors.

References

- Fournier G., M. R. Paris., M. C. Fourniat and A. M. Quero, 1978. Activité bactériostatique d'huiles essentielles de Cannabis sativa L.. [Bacteriostatic activity of Cannabis sativa L. essential oil.] Annales pharmaceu-tiques françaises 36 (11-12): 603-606.
- Hendriks H., T. M. Malingré, S. Battermann and R. Bos, 1975. Mono- and sesqui-terpene hydrocarbons of the essential oil of Cannabis sativa. *Phytochemistry* 14: 814-815.
- Krebs H., 1996. Personal communication, Swiss Federal Research Station for Agroecology and Agriculture.

From:

Sent:

Friday, March 13, 2020 2:42 PM

To:

sbcob

Subject:

Busy Bee Appeal March 17 2020

Attachments:

March 13 2020 letter bos re busy bee appeal.docx



Caution: This email originated from a source outside of the County of Santa Barbara. Do not click links or open attachments unless you verify the sender and know the content is safe.

Please distribute the attached to the Supervisors

March 13, 2020

Re: Appeal of Busy Bee Organics to be heard March 17, 2020

Dear Board of Supervisors,

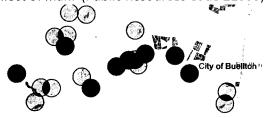
I strongly urge you to support the appeal of Busy Bee Organics.

If you cannot support the appeal, postpone your decision until after the Planning Commission has made recommendations for amendments to the ordinance – which you, recognizing the need for changes, asked them to do.

As the first Ag II appeal to be heard (Santa Rita postponed), it will be precedent setting and will impact other pending projects.

Please consider the following:

This is one of 19 cannabis applications in the Santa Rita Valley area. These applications will create an **Industrial Cannabis Corridor** to the west of Buellton that will be inconsistent with both the spirit of the Santa Ynez Community Plan and the CEQA premise that "It is necessary to provide a high-quality environment that at all times is healthful and pleasing to the senses and intellect of man." (Public Resources Code 21000)



- The EIR did not consider impacts of over-concentration.
- This project is within the Santa Ynez Valley Community Plan and is not consistent with the Plan's visual and aesthetic resource goals.
- This project is across the road from an EDRN and should require a CUP
- This project will impact other agricultural activities by creating problems for application of standard materials and practices by non-marijuana farmers and impacting quality of agricultural products – specifically wine – or the perceived quality of wine - both threatening the industry in SB County.
- Odor from these projects especially given the concentration of projects will impact residents, visitors, and farmworkers at other agricultural operations. Residents of the Carpinteria Valley have made it clear that odors from cannabis operations are impacting their health and quality of life, but the Board must also consider the health and quality of life of farm workers. They count too even if they cannot attend meetings.
- This project violates Article X by illegally expanding their premises and/or completing improvements beyond those in place at the time of their affidavit
- Given likely future improvements in technology, this permit should not run with the land but with the operator and should be limited to 3 years with right to renew

Please support the appeal.

Sharyne Merritt, farmer adjacent to the project