NOSB COMMITTEE RECOMMENDATION

Form NOPLIST1. Committee Transmittal to NOSB

For NOSB Meeting: <u>March 2007</u>					Substance: <u>Hops</u>					
Committee: Crops □ Livestock □ Handling √ Petitioned for										
	on the National List § 205. 606									
A. Evaluation Criteria (Applicability noted for each category; Documentation attached)Criteria Satisfied? (see B below)1. Impact on Humans and EnvironmentYes \Box No \Box N/A $$ 2. Essential & Availability CriteriaYes $$ No \Box N/A \Box 3. Compatibility & ConsistencyYes \Box No \Box N/A $$ 4. Not or Inconsistently Available as OrganicYes $$ No \Box N/A \Box										
B. Substance Fails	Criteria Category: _		Comments							
C. Proposed Annota	C. Proposed Annotation (if any):									
Basis for annotatio	n: To meet criteria a	bove	: Otł	ner regula	ory cri	teria: Citation:_				
Basis for annotation: To meet criteria above: Other regulatory criteria: Citation: D. Recommended Committee Action & Vote (State Motion): Addition to section 205.606 of National List Motion by: Julie Weisman Seconded: Joe Smillie Yes: 3 No: 0 Absent: 1 Abstain: 0										
-										
	Crops		Agricultural	X		Allowed ¹	x			
	Livestock	V	Non-Synthetic			Prohibited ²				
	Handling No restriction	Χ	Synthetic Commercially U		x	Rejected ³ Deferred4				
No restriction Available as Organic ¹ Deferred ⁴ 1) Substance voted to be added as "allowed" on National List to § 205. 606 with Annotation (if any)										
2) Substance to be added as "prohibited" on National List to § 205with Annotation (if any)										
Describe why a prohibited substance:										
3) Substance was rejected by vote for amending National List to § 205Describe why material was rejected:										
4) Substance was recommended to be deferred because										
If follow-up needed, who will follow up										
E. Approved by Committee Chair to transmit to NOSB:										

NOSB EVALUATION CRITERIA FOR SUBSTANCES ADDED TO THE NATIONAL LIST

Category 1. Adverse impacts on humans or the environment?

Substance - Hops

Question	Yes	No	N/A ¹	Documentation (TAP; petition; regulatory agency; other)
1. Are there adverse effects on				
environment from manufacture,				This is an agricultural product.
use, or disposal?			XX	
[§205.600 b.2]				
2. Is there environmental				
contamination during manufacture,			XX	
use, misuse, or disposal? [§6518				
m.3]				
3. Is the substance harmful to the				
environment?			XX	
[§6517c(1)(A)(i);6517(c)(2)(A)i]				
4. Does the substance contain List				
1, 2, or 3 inerts?			XX	
[§6517 c (1)(B)(ii); 205.601(m)2]				
5. Is there potential for detrimental				
chemical interaction with other			XX	
materials used?				
[§6518 m.1]				
6. Are there adverse biological and				
chemical interactions in agro-			XX	
ecosystem? [§6518 m.5]				
7. Are there detrimental			-	
physiological effects on soil			XX	
organisms, crops, or livestock?				
[§6518 m.5]				
8. Is there a toxic or other adverse				
action of the material or its			XX	
breakdown products?				
[§6518 m.2]				
9. Is there undesirable persistence				
or concentration of the material or			XX	
breakdown products in				
environment?[§6518 m.2]				
10. Is there any harmful effect on				
human health?			XX	
[§6517 c (1)(A)(i) ; 6517 c(2)(A)i;				
§6518 m.4]				
11. Is there an adverse effect on	1			
human health as defined by			XX	
applicable Federal regulations?				
[205.600 b.3]				
12. Is the substance GRAS when				
used according to FDA's good			XX	
manufacturing practices? [§205.600				
b.5]				
13. Does the substance contain			L	
residues of heavy metals or other			XX	
contaminants in excess of FDA				
tolerances? [§205.600 b.5]				

¹If the substance under review is for crops or livestock production, all of the questions from 205.600 (b) are N/A—not applicable.

Category 2. Is the Substance Essential for Organic Production? Substance - <u>Hops</u>

Question	Yes	No	N/A ¹	Documentation (TAP; petition; regulatory agency; other)
1. Is the substance formulated or manufactured by a chemical process? [6502 (21)]			xx	This is an agricultural product.
2. Is the substance formulated or manufactured by a process that chemically changes a substance extracted from naturally occurring			XX	
plant, animal, or mineral, sources? [6502 (21)]				
3. Is the substance created by naturally occurring biological processes? [6502 (21)]			XX	
4. Is there a natural source of the substance? [§205.600 b.1]			XX	
5. Is there an organic substitute? [§205.600 b.1]			XX	
6. Is the substance essential for handling of organically produced agricultural products? [§205.600 b.6]			XX	
7. Is there a wholly natural substitute product? [§6517 c (1)(A)(ii)]			XX	
8. Is the substance used in handling, not synthetic, but not organically produced? [§6517 c (1)(B)(iii)]			XX	
9. Is there any alternative substances? [§6518 m.6]			XX	
10. Is there another practice that would make the substance unnecessary? [§6518 m.6]			XX	all of the questions from 205.600 (b) are N/A not applicable

¹If the substance under review is for crops or livestock production, all of the questions from 205.600 (b) are N/A—not applicable.

Category 3. Is the substance compatible with organic production practices? Substance - <u>Hops</u>

Question	Yes	No	N/A ¹	Documentation (TAP; petition; regulatory agency; other)
1. Is the substance compatible with organic handling? [§205.600 b.2]			XX	This is an agricultural product.
2. Is the substance consistent with organic farming and handling? [§6517 c (1)(A)(iii); 6517 c (2)(A)(ii)]			XX	
3. Is the substance compatible with a system of sustainable agriculture? [§6518 m.7]			XX	
4. Is the nutritional quality of the food maintained with the substance? [§205.600 b.3]			XX	
5. Is the primary use as a preservative? [§205.600 b.4]			XX	
6. Is the primary use to recreate or improve flavors, colors, textures, or nutritive values lost in processing (except when required by law, e.g., vitamin D in milk)? [205.600 b.4]			XX	
 7. Is the substance used in production, and does it contain an active synthetic ingredient in the following categories: a. copper and sulfur compounds; 			XX	
b. toxins derived from bacteria;			XX	
c. pheromones, soaps, horticultural oils, fish emulsions, treated seed, vitamins and minerals?			XX	
d. livestock parasiticides and medicines?			XX	
e. production aids including netting, tree wraps and seals, insect traps, sticky barriers, row covers, and equipment cleaners?			XX	

¹If the substance under review is for crops or livestock production, all of the questions from 205.600 (b) are N/A—not applicable.

Category 4. Is the agricultural substance inconsistently or not commercially available as organic? Substance - _____

Question	Yes	No	N/A	Comments on Information Provided (sufficient, plausible, reasonable, thorough, complete, unknown)
1. Is the comparative description				See comments below for #'s 2 and 3.
provided as to why the non-organic				
form of the material /substance is	XX			
necessary for use in organic handling?				
2. Does the current and historical				Pages 4 and 5 of petition describe in detail the different
industry information, research, or	XX			varieties of hop used to create different varieties of beer, as
evidence provided explain how or why				well as the need for different types of hops to be added at
the material /substance cannot be				different stages of the brewing process for a particular beer
obtained organically in the appropriate				(e.g. hops are not interchangeable.) Not all varieties are
form to fulfill an essential function in				available yet as organic.
a system of organic handling?				
3. Does the current and historical				The petitioner does NOT claim that the quality of organic
industry information, research, or				hops is inferior to conventional hops.
evidence provided explain how or why		XX		
the material /substance cannot be				NOTE: The last paragraph of the petition, states that
obtained organically in the appropriate				conventional hops must be used "when organic hops are
<u>quality</u> to fulfill an essential function				commercially unavailable, or available in sub-quality form.
in a system of organic handling?				
4. Does the current and historical				Page 5 of the petition describes in detail the current growing
industry information, research, or	XX			regions. In the U.S. the growing areas are so concentrated
evidence provided explain how or why				that there cannot be sufficient separation between
the material /substance cannot be				conventional and organic crops to prevent the organic crops
obtained organically in the appropriate				from being plagues by pests and fungal diseases, making the
<u>quantity</u> to fulfill an essential				U.S. supply fragile. New Zealand, because of it's isolation is
function in a system of organic				still free of such challenges, however, the long distance the
handling?				hops must travel to the U.S. are easily contaminated if not
				packaged properly.
5. Does the industry information				See comment above.
provided on material / substance non-	XX			
availability as organic, include (but				
not limited to) the following:				
a. Regions of production (including				
factors such as climate and number of				
regions);	ļ			
b. Number of suppliers and amount				No mention is made in this petition of number of suppliers,
produced;		XX		acres under organic cultivation or global demand or supply
				of organic hops.
c. Current and historical supplies				No information was given regarding recent or past climactic
related to weather events such as		XX		events that have destroyed or reduced crops.
hurricanes, floods, and droughts that				
may temporarily halt production or				
destroy crops or supplies;	 			
d. Trade-related issues such as		vv		Petition gives no indication that trade-related issues play a
evidence of hoarding, war, trade		XX		role in reducing the supply of organic hops.
barriers, or civil unrest that may				
temporarily restrict supplies; or				Dega 5 describes this areas high suspentibility to the degree
e. Are there other issues which may	$\mathbf{v}\mathbf{v}$			Page 5 describes this crops high susceptibility to the damson
present a challenge to a consistent	XX			hop aphids, two-spotted spider mite and the soil-born fungal
supply?				disease, Verticillium. It also describes the difficulty of
				protecting the U.S. organic crop from such infestations.
				In addition, petitioner describes that "regulatory challenges'
				are also an obstacle to a consistent supply.
		<u> </u>	l	are also all obstacle to a collsistent supply.