

Regulation of Cannabis Edibles in Denver

NACCHO Sharing Session Webinar June 20, 2017



Denver Department of Environmental Health (DEH)

Denver's accredited local public health department

Public Health Inspections Division

- Healthy Families/Healthy HomesSection
- Food Safety & Marijuana Section
 - 17 Food/MJ investigators
 - 2 fulltime MJ investigators
 - 4 supervisors, 1 manager





Marijuana Business Licenses

Denver has 8 distinct Marijuana Licenses:

Retail Stores	Medical Centers
Retail Cultivation	Medical Cultivation
Retail Infused Products	Medical Infused Products
Retail Testing Facility	Medical Testing Facility

 Currently, Denver has 1,125 licenses operating out of 489 unique locations.









Denver Marijuana Landscape – Inspections

Number of Annual Compliance Inspections Performed By Each City Agency per License Type					
	Environmental Quality	Excise and Licenses	Fire Department	Public Health Inspections	
Retail Stores	-	1	2	2	
Retail Cultivation Facilities	1	1	2	-	
Retail Infused Products Manufacturers	-	1	2	2	
Retail Testing Facilities	-	1	2	-	
Medical Centers	-	1	2	2	
Medical Cultivation Facilities	1	1	2	-	
Medical Infused Products Manufacturers	-	1	2	2	



Authority

Denver Revised Municipal Code:

Chapter 23: Food & Food Handlers

 Regs been applied to Denver MJ businesses since 2010

Chapter 24: Health & Sanitation

- Enforcement authority for hindering an investigation
- Authority to conduct recalls for contamination issues
- Authority to take all measures necessary to address public/environmental health hazards on public and private property

*Marijuana products not regulated as "food" by State Health Dept

"Food": any raw, cooked, or processed edible substance, gum, ice, Beverage, or ingredient used or intended for use or for sale in whole or in part for human consumption, including marijuana infused products





MJ Operations Inspected by PHI

- 1. Retailers (dispensaries)
- 2. Manufacturers















Cannabis Edibles





















Occupational Safety Hazards

- Explosion from extractions
- Hydrocarbon solvent toxicity due to improper leaks and poor ventilation
- Reduced oxygen, elevated CO2 in cultivation facilities
- Off-label pesticide exposure
- Denver inspector safety video



Is it PHF/TCS?

Extractions/oily foods must be treated as PHF unless one of the following:

- Plant material is irradiated
- Extract is suspended in alcohol, homogenous
- Thermal critical limit met
- pH/water activity is low to prevent growth (non-oily foods only)
- Product is labeled for smoking only
- Scientific research demonstrating safety of another critical limit is provided and approved

HACCP-type plan must be submitted and approved







MJ Concentrates

- Plant material is processed to extract the THC (or CBD for hemp)
- The extraction or "concentrate" also may have concentrated contaminants
- Little established research
- Very efficient at concentrating pesticides
- Concentrates can be smoked/vaped OR used as ingredient in edibles









Pesticide Contamination

- Complex jurisdictional issues
- Denver addressed widespread use of off-label pesticides in 2015
- Contaminated products are condemned
- To date, approximately 29 recalls by Denver

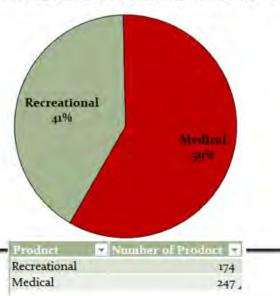




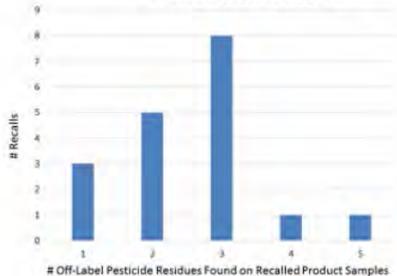


Pesticide Contamination

Medical vs Recreational Number of Products Recalled



Number of Different Pesticide Residues Found on Each Product by Recall



Median # of pesticide residues found on recalled product samples = 3



Concerns with Solvents

- Solvents used to make extracts/concentrates
- Significant price differential for different solvent grades
- Industrial grade solvents should not be used
- Cross-contamination from solvent reuse



Ingredient Standards

- CFRs provide regulations for use of food ingredients
- No such standards for products that are smoked, concentrated, or vaporized
- Seeing many ingredient used in medical & rec products for which no safety evaluation exists for method of consumption



Molds & Pests

- Little research on health impacts
- Low quality MJ tends to be sold cheap for concentrates
- Not the basis of any enforcement actions in Denver
- Managed through use of pesticides and fungicides







Unregulated Hemp-Derived Food Products

- Many therapeutic CBD products are made from hemp
- Per State Health Dept and FDA, only approved source for hemp additives in food is hemp seed
- State not currently registering these businesses as wholesale food manufacturers
- Licensed/inspected in Denver
- No health agencies regulating CBD manufacturers outside Denver





QUESTIONS?

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