UPDATE FROM WSDA REGARDING PESTICIDE USE ON MARIJUANA IN WASHINGTON

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SFIREG Meeting
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Overview

• Introduction
• WSDA Criteria and Pesticide List
• Section 24c Special Local Need Registration
• Examples of Pesticides That Can, and That Cannot Be Used on Marijuana
• Web Sites / Resources
Marijuana Producer in Thurston County
Marijuana Industry in Washington:

- Over $417 Million in Retail Sales.
- Over $95 Million in Taxes.
- Approx. 914 Licensed Producers, Processors, and Retailers.
Introduction - 2

WSDA Provides Three Services for the Marijuana Industry in Washington:

1. Pesticide and Fertilizer Standards.

2. Marijuana Infused Edibles Inspections.

3. Weights and Measures Standards and Inspections.
Definition of Pesticide:

- RCW 15.58.030(31) – Substance(s) Intended to Prevent, Control, Repel, Mitigate Pest(s); Plant Regulator; Spray Adjuvant.

- Examples - Antimicrobial, Disinfectant, Fungicide, Herbicide, Insecticide, Miticide, Rodenticide, Rooting Hormone, Surfactant.

*Pesticides Have Been Regulated in Washington since 1901!*
Packaged Marijuana
Marijuana Infused Edibles
WSDA Criteria and List - 1

• 1998: Voters in WA Authorized Medical Marijuana (I-692)
  – Department of Health.

• 2012: Voters in WA Authorized Recreational Marijuana (I-502)
  – Liquor and Cannabis Board (LCB).

• 2013: Letter from Governor Inslee to Attorney General Holder Regarding Marijuana Regulation in Washington.
  – Governor Inslee requested that WSDA assist LCB.
2013: Development Of WSDA Criteria for Pesticides Used to Produce Marijuana.

- Discussions with EPA and Colorado Department of Agriculture.
  - Marijuana is Not a Labeled Crop, and No Tolerances Have Been Established for Pesticide Residues on Cannabis.
  - Marijuana and Extracts are Smoked and Consumed.

- WSDA Considers Marijuana to be a Food Crop, for Purposes of Assessing Risk to Human Health.
2013: Development of WSDA Criteria.

- 2 Types of Pesticides Allowed for Use on Marijuana:
  - **Section 3:** if Tolerance Exempt **and** Labeled for Use on Unspecified Food Crops, Home Gardens or Herbs. (Primarily Biopesticides and Pesticides Used in Organic Food Production.)
  - **Section 25b Minimum Risk Pesticides:** if Labeled for Use on Unspecified Food Crops, Home Gardens or Herbs.
• 2014: Review of WSDA Criteria by Health
  – “Overall, WSDA Has Taken a Reasonable Approach to Minimizing Risk to Human Health from Pesticides in Marijuana Growing Operations.”

• 2014: Several Pesticides Approved for Use on Medical Cannabis by Health Canada.

• 2014-2015: Requests for Additional Pesticides.
WSDA Criteria and List - 5

- LCB Rules (WAC 314-55-084): Pesticides Registered by WSDA (RCW 15.58) as Allowed for Use in the Production of Marijuana.

- WSDA Provides Pesticide List (approx. 309 Products), Guidance Documents and Technical Assistance to LCB and Health.

- WSU PICOL Web Site has Query for Pesticide List.

- WSDA Web Site has Links for LCB, Health, WSU PICOL, WSDA Fertilizer Database and Other Topics.
Marijuana Producer in Pacific County
Section 24c SLN Registration - 1

- **Application for Pesticide Use on Marijuana:**
  - Submitted by Registrant (or Third Party).
  - Demonstrate there is a “Special Local Need”
    - Pest Problem, Available Pesticides, Indoor and/or Outdoor Use.
  - Letters of Support
    - Industry and Unaffiliated Expert.
Section 24c SLN Registration - 2

• Application for Pesticide Use on Marijuana:
  – Federally Registered Pesticide *with Adequate Data to Support*
  • Use on Food Crops (including Hops and/or Mint) and Tobacco.
  • Appropriate Application Method(s), Agronomic Characteristics, Worker Exposure, Greenhouse and/or Field Grown Crops.
  – WSDA Will Contact EPA to Determine if There Are Regulatory Issues With Active Ingredient.
Examples of Pesticides That *Can* Be Used on Marijuana - 1

- Azadirachtin (e.g. AzaGuard, Azamax, Azatin)
- Bacillus subtilis (e.g. Natria, Serenade)
- Canola oil (e.g. Earth-Tone, Garden Safe)
- Clarified hydrophobic extract of neem oil (e.g. Ferti-Lome, Garden Safe, Natria, Trilogy)
- Copper octanoate (e.g. Camelot, Cueva)
- Hydrogen peroxide (e.g. Oxidate, Zerotol)
- IBA / Indole-3-butyric acid (e.g. Clonex Rooting Gel, Mad Farmer, Rhizopon)
Examples of Pesticides That *Can* Be Used on Marijuana - 2

- Mineral oil / Petroleum oil (e.g. Leaf Life, Omni)
- Phosphorous acid mono and di-potassium salts (e.g. Agri-Fos, Fungi-Phite, Phostrol)
- Potassium bicarbonate (e.g. Armicarb, Kaligreen)
- Potassium salts of fatty acids / Soap (e.g. Concern, Earth Options, Natria, Safer)
- Pyrethrins (e.g. Concern, Pyganic, Safer)
- Sulfur (e.g. Earth-Tone, Safer)
- Thyme oil (e.g. Dr. Earth, SNS, Zero Tolerance)
Examples of Pesticides That *Cannot* Be Used on Marijuana - 1

- Abamectin (e.g. Avid, Agri-Mek)
- Bifenthrin (e.g. Attain, Talstar)
- Chlormequat chloride (e.g. Citadel, Cycocel)
- Daminozide (e.g. B-Nine)
- DDVP / Dichlorvos (e.g. Nuvan Prostrips)
- Imidacloprid (e.g. Merit, Promis)
- Myclobutanil (e.g. Eagle 20EW, Rally)
Examples of Pesticides That *Cannot* Be Used on Marijuana - 2

- Paclobutrazol (e.g. Bonzi, Piccolo)
- Permethrin (e.g. Ambush, Pounce)
- Propiconazole (e.g. Bayer Advanced Fungus Control for Lawns, Lesco Spectator T & O)
- Spinosad (e.g. Captain Jack’s, Entrust)
- Spiromesifen (e.g. Forbid, Oberon)
- Uniconazole (e.g. Concise)
Three Reasons That Pesticides Cannot Be Used on Marijuana

1. Pesticide Does Not Meet WSDA Criteria.
2. Registrant Does Not Have Data to Support a SLN Registration to Allow Use on Marijuana.
   - *Use Not Allowed on Hops and/or Mint: Chlormequat chloride, Daminozide, DDVP / Dichlorvos, Paclobutrazol, Permethrin, Uniconazole.*
   - *Use Not Allowed on Tobacco: Abamectin, Chlormequat chloride, Daminozide, DDVP / Dichlorvos, Myclobutanil, Paclobutrazol, Permethrin, Propiconazole, Spiromesifen, Uniconazole.*
3. Registrant Has Not Submitted SLN Application, Including Data, to WSDA for Review.
Cannabis Inflorescence
Cannabis spp.

Standards of Identity, Analysis, and Quality Control
Web Sites / Resources - 1

Washington State Department of Agriculture
- Services for the Marijuana Industry
agr.wa.gov/AgInWa/I502/default.aspx

- Pesticides and Fertilizers
agr.wa.gov/pestfert/pesticides/
pesticideuseonmarijuana.aspx
Web Sites / Resources - 2

Washington State Liquor and Cannabis Board
lcb.wa.gov/mj2015/marijuana-2015

Washington State Department of Health
www.doh.wa.gov/youandyourfamily/marijuana/medicalmarijuana

Interagency Resource for Achieving Cooperation (IRAC)
apps.lhwmp.org/IRAC/Publications.aspx
Regulatory Guidance for
Licensed I-502 Cannabis Operations

Created in partnership by the Interagency Resource for Achieving Cooperation (funded by the Local Hazardous Waste Management Program in King County)

Local Hazardous Waste Management Program in King County, Washington
City of Kirkland, Washington
City of Bellevue, Washington
City of Seattle, Washington
King County
City of Bellevue, Washington
Puget Sound Public Utilities
Snohomish Health District
Puget Sound Clean Air Agency
IRAC
CEDAR GROVE
EMERALD Environmental
Washington State Department of Agriculture
City of Tacoma Environmental Services
State of Washington Department of Ecology
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Questions?

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