

RISK ASSESSMENT FROM A NURSERY PERSPECTIVE

SANC

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Practices

- ▣ Identify Cultural and Management Practices that limit spread or prevent the introduction of plant pests / pathogens on a broad and generic basis.
 - Document current practices
 - Determine feasibility of additional practices
 - ▣ Establish management plan of new practices
 - Include: exclusion, mitigation, detection, traceability, recordkeeping, training

Pests and Pathogens

- ▣ Identify specific plant pests and pathogens indigenous to the area of production and species produced.
 - Bacterial and Viral pathogens
 - Insect vectored disease
 - Seed borne pathogens
 - Soil borne pathogens and pests
 - Fungal and Bacterial pathogens
 - Water borne pathogens

Adequacy of Controls

- ▣ BMP's
 - Do the BMP's adequately control the pests identified for the plant species grown?
 - If not, identify additional BMP's to provide acceptable control.
 - ▣ Create management plan for additional BMP's
 - ▣ Include measurements / audit areas
 - If Cultural Practices are inadequate, what chemical controls need to be incorporated?

Consideration of Chemical Controls

- ▣ Environmental concerns
 - Runoff
 - Disposal of excess product (drench)
 - Proximity of application to vulnerable, non-target areas
- ▣ Toxicity and worker concerns
 - REI's
 - PPE
- ▣ Efficacy and practicality of application(s), relevant to shipping a pest free plant

Considerations for adding any level of complexity / cost

- ▣ The value of the crop vs. the cost of the BMP or control
- ▣ The consistent manageability of the control and the associated cost
- ▣ Value of the crop grown i.e.; its profitability / risks
- ▣ Value of the market ; Country / State

Considerations for adding any level of complexity / cost

- ▣ Potential for error and associated risks
- ▣ Staff and Resource requirements and their relation to the seasonality of the business

Additional Considerations

- ▣ All those other regulators not currently in the room:
 - OSHA
 - State and Federal Pesticide Divisions
 - EPA
 - USDOL
- ▣ Recordkeeping, Training, Storage, Facilities

Destination State Concerns

- ▣ IFA
- ▣ Tropical Spiderwort
- ▣ European Corn Borer
- ▣ Glassy wing Sharpshooter
- ▣ Black Stem rust
- ▣ Japanese Beetle

Options

- ▣ IFA
 - Ship only to States in Quarantine area
 - Rate of bifenthrin incorporation
 - Exclusion
 - IFA Free Nursery Program / drench

Options

- ▣ Black Stem Rust
 - Grow only rust resistant plants
 - Ship only to non- regulated States

Options

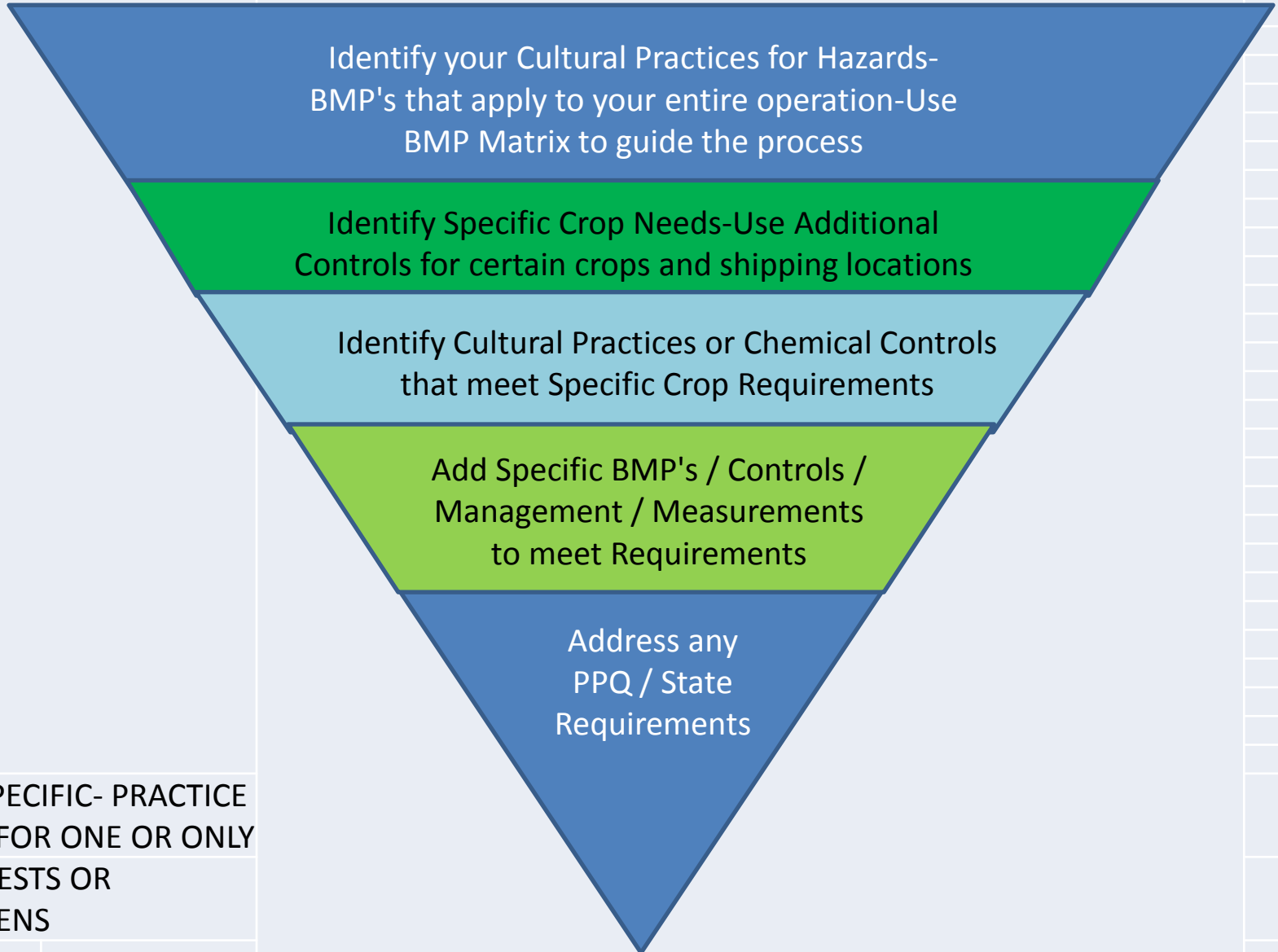
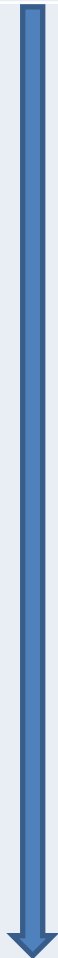
- ▣ Japanese Beetle
 - We are not in a regulated county
 - Accepted under Harmonization Plan in some States
 - Others require Phyto

Options

- ▣ Glassy Winged Sharpshooter
 - Phyto
 - Not ship to Grape producing States due to risk even with Phyto

Schematic Diagram of Process for Risk Assessment:

GENERAL-COVERS MOST
PESTS AND PATHOGENS



MOST SPECIFIC- PRACTICE
MAY BE FOR ONE OR ONLY
A FEW PESTS OR
PATHOGENS

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