

Adopting Integrated Pest Management

Implementing IPM in your PMP
and in the field

IVMA Event Workshop
November, 2018



Ministry of
Environment and
Climate Change Strategy

Outline

- IPM Program – Goals & Roles
- Setting the Stage: Guiding Principles
- Spotlight: Adopting IPM
 - PMP & Field
- Deep dive (industry): Monitoring
- Verifying compliance with IPM adoption





Goals and Roles

- **Goal:** Minimize unnecessary use of pesticides
- **Vehicle:** IPM in a PMP
- **Roles:**
 - Proponent – develop, share, oversee contractors
 - IPMP (Vic) – standards/BMPs, legislation, interpretation, Explanatory Notes
 - IPMP (ROB) – authorizations, consultation, C&E



Setting the Stage – Principles

- PMP Audience? Everybody's welcome!
- **Role of PMP:**
 - operational direction
 - env protection measures
 - communicating IPM to public & FNs
- Registration not decision – valid declaration
- Due diligence & Shared Stewardship – it's on you!
- Continual and demonstrated improvement



"Thank you, you've been a great audience...!"

Spotlight: IPM Adoption

- Showtime: IPM!
 - IPMR - 14 years
 - ENs – 6 years
 - Time to show your stuff!
- Mandatory
 - IPMR S.68/69(1) “use...a pesticide only after...<IPM>”
- Described in your PMP & practiced in the field



IPM in a PMP - Do

- Base decisions on **data & science**
 - provide justification
- Design an **impartial process** to make decisions
 - “Science, not Art”
- Ensure **data flows** through the process:



- Provide sufficient detail
- **Challenge yourself:** reduce unnecessary use

IPM in a PMP – Don't

- Circular Fulfillment

- “will be done according to IPMR”



- Results-based Planning

- “will be applied so as not to cause unreasonable adverse effect”

- Future Planning

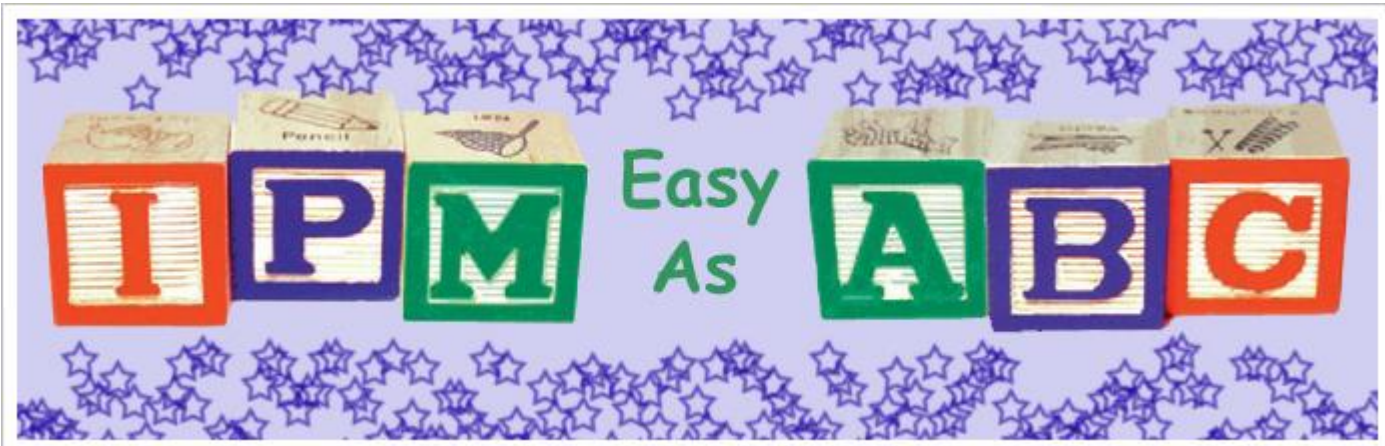
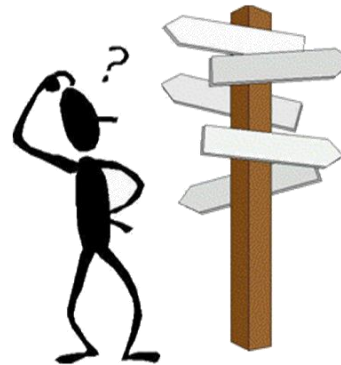
- “procedures for monitoring will be developed”

- Subjective “off ramps” to decision making

- proponent “may implement...”



IPM in a PMP – Elements



IPM in a PMP – Prevention

- Commitment to
long term solutions
- Recognize your efforts!
- Identify potentials and analyze them
 - competition, exclusion, sanitation, decommission
- Justify not incorporating potential options
- Gradual incorporation?



IPM in a PMP – Identification

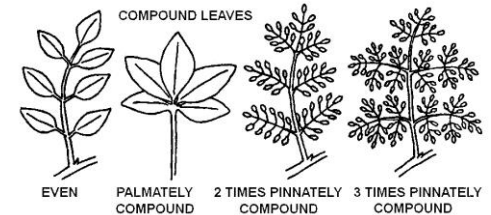
- **Describe in manner that ensures:**

- target is actually a pest
- biology may be incorporated to maximize efficacy
- label is appropriate



- **Determine appropriate level**

- Match with operational needs? “Veg complex”?



- **Practical direction** – what will field staff do?

IPM in a PMP – Monitoring

- Deep Dive: industry perspective
- **What's Required?** Methods, frequency, data
- Data to be collected?
 - **Quantitative** most appropriate
- Used to determine?
 - **IF & Where/When** treatment required
- Ensure directly relates-**Threshold & Evaluation**



IPM in a PMP – Threshold

- State clearly & practical to implement
- Justify - Supported by science / not arbitrary
- **Unnecessary use** – can threshold be higher?
- Different thresholds for various sites?
 - “Operation Zones”?
- Indicate if threshold set by others
 - e.g., “free to grow” requirements



IPM in a PMP – Treatment

- Minimize unnecessary use & waste!
- Clearly outline **decision making process**
- Describe important factors & features
- Several methods/products proposed?
 - when & where they will be used
- Product choice & rate
 - alternatives to pesticide use



IPM– Treatment (Env. Protection)

- Minimize non-target effects
- **Wildlife** is present that may be impacted?
 - Are there **species at risk**?
- Is there **habitat** that requires protection?
- Areas with higher value/different prescription?
- Are there **critical windows** to avoid?
- Sufficient detail!

IPM in a PMP – Evaluation

- Short term- **efficacy** / identify **impacts**
- Longer term- program improvement
- **Compare** with pretreatment monitoring data
- Remember goal - **reduce unnecessary use**
 - What will be done differently next time?
- **Assess impacts** to pests & environment
 - including nontargets



Remember



- **Amending a PMP is easy!**
 - Version control
 - Give us a heads up
- **Explanatory Notes – Phase 1**
 - Best source for how ENV interprets requirements
 - Great to do a self check & prep for IPM Officers!
 - Phase 2 (IPM in the field) coming soon
- **Adjuvants** may be “pesticides”

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If you want to prosper for a year, grow rice.

If you want to prosper for a decade, plant trees.

If you want to prosper for a century, grow people.

www.gov.bc.ca/PestManagement