Insecticide Resistance Action Committee

Insecticide resistance management guidelines in the Philippines

Cultural/Mechanical

- Sanitation
- Synchronized Planting
- Crop Rotation; Fallowing
- Use of Resistant Varieties
- Minimum Tillage
- Proper Fertilization (eg. Nitrogen)

Biological / Bio-control

- Knowing the Natural Enemies of the pest
- Diadegma and Cotesia for Cabbage DBM control
- Spiders, Lady Beetles, Trichrogama,
- Bacillus sp.

Chemical

- Need – based approach in the use of pesticides
- High risk pests include Diamond Back Moth, Hoppers (BPH, MLH), Eggplant Fruit and Shoot Borer, Thrips
- Continuous use of pesticides of same of mode of action leads to development of resistance
- Role of Insecticide Resistance Management

Incorporate IPM practices

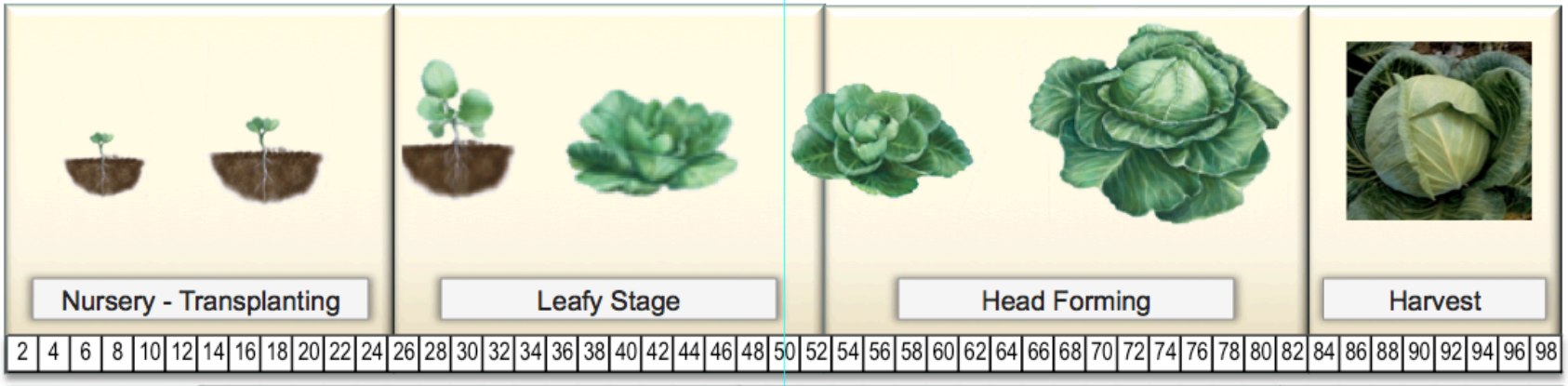
- **Identify the Pest**
- **Monitor Pest populations**
- **Use the right and registered insecticides as needed**
- **Seek expert advise (e.g. Extension workers, industry)**

To Avoid Development of Insecticide Resistance

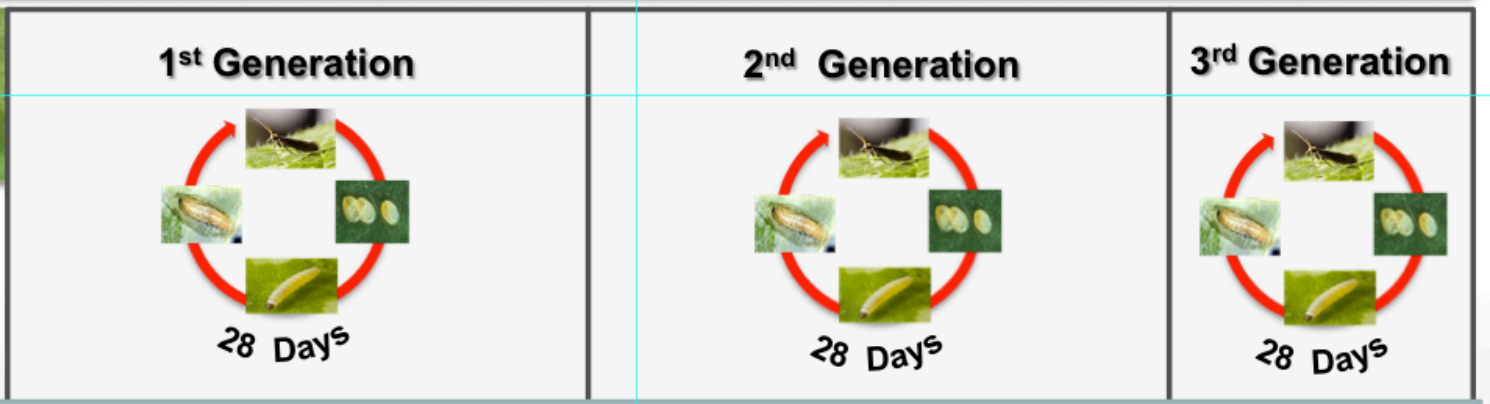
1. **Incorporate IPM practices**
2. **Follow GAP Principles**
3. **Know the mode of action (MoA) of insecticide products / brands**
4. **Rotate Insecticide MoA group / NOT brands**

Insecticide Resistance Management (IRM) Strategy in Cabbage

To ensure susceptible DBM population



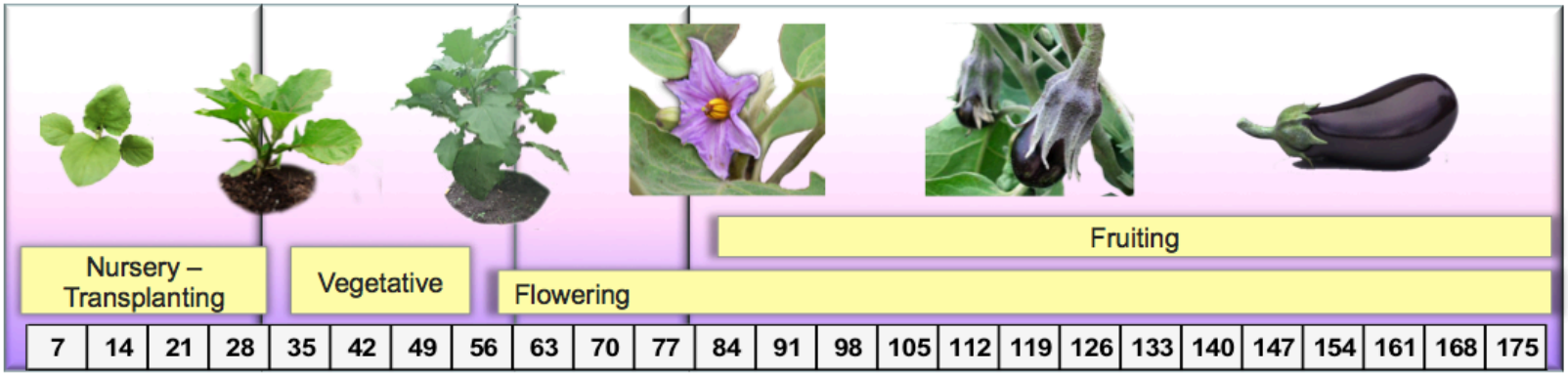
Diamond Back Moth



Insecticide Application (Need – Based)			
Option 1	MoA 1	MoA 2	MoA 3
Option 2	MoA 1	MoA 2	MoA 1

Insecticide Resistance Management (IRM) Strategy in Eggplant

To ensure susceptible Fruit Borer population

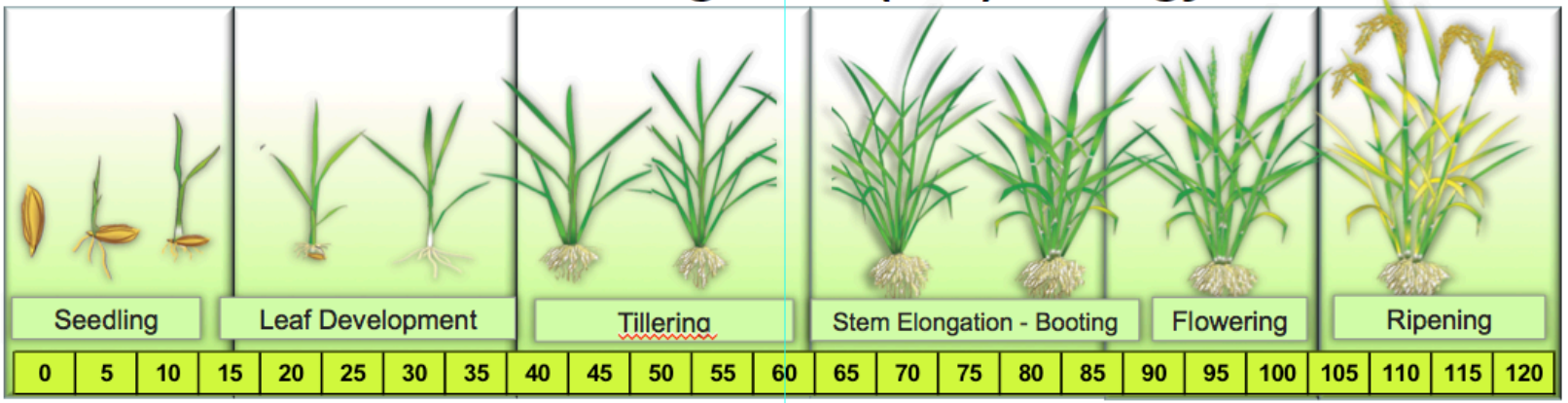


1st Generation	2nd Generation	3rd Generation	4th Generation	5th Generation
30 Days	30 Days	30 Days	30 Days	30 Days

Insecticide Application (Need – Based)

	1st Generation	2nd Generation	3rd Generation	4th Generation	5th Generation
Option 1	MoA 1	MoA 2	MoA 3	MoA 4	MoA 5
Option 2	MoA 1	MoA 2	MoA 1	MoA 2	MoA 1

Insecticide Resistance Management (IRM) Strategy in Rice



	1st Generation	2nd Generation	3rd Generation
Stemborer	35 Days	35 Days	35 Days
Brown Plant Hopper	32 Days	32 Days	32 Days
Green Leaf Hopper	30 Days		
Insecticide Application (Need – Based)			
Option 1	MoA 1	MoA 2	MoA 3
Option 2	MoA 1	MoA 2	MoA 1