

**MicrobeBio®**

**MICROBEBIO  
APPLICATION FOR  
CABBAGE YIELD**

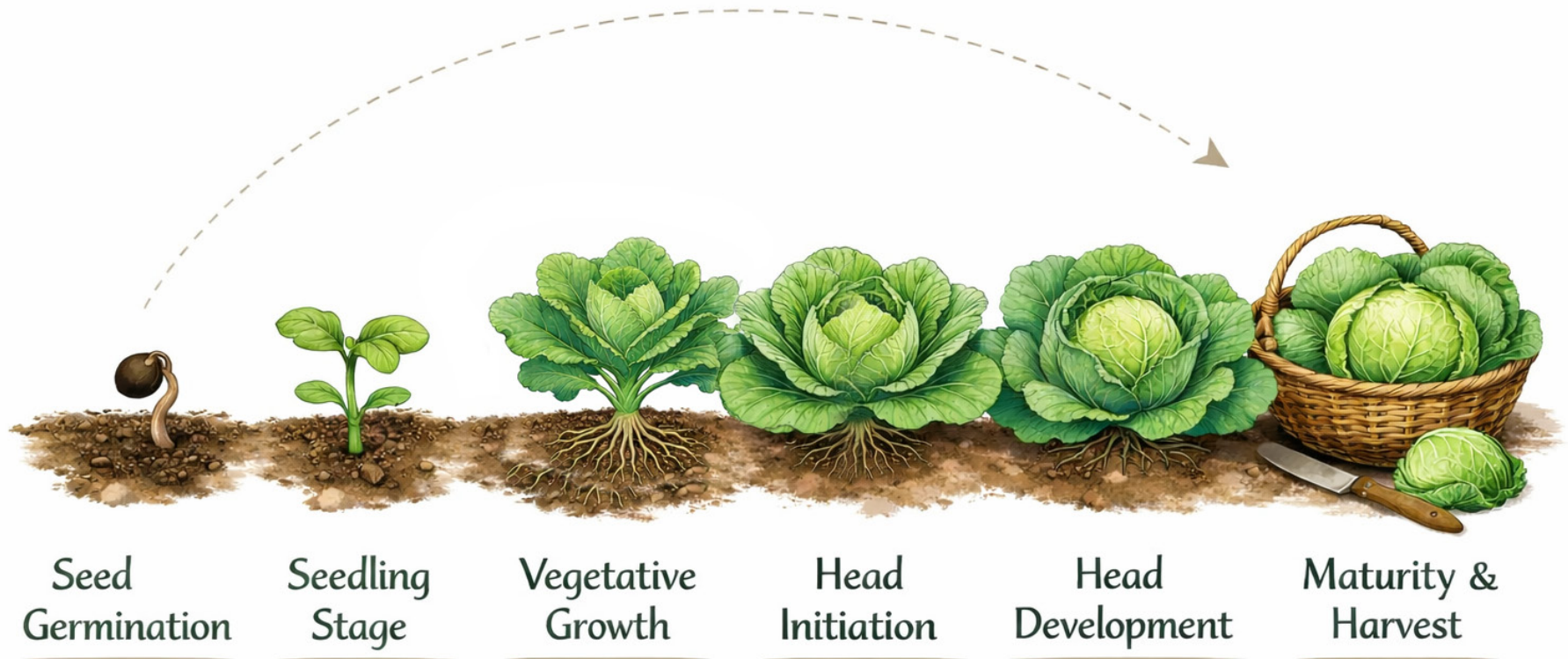




# APPLICATION



# LIFE CYCLE OF CABBAGE



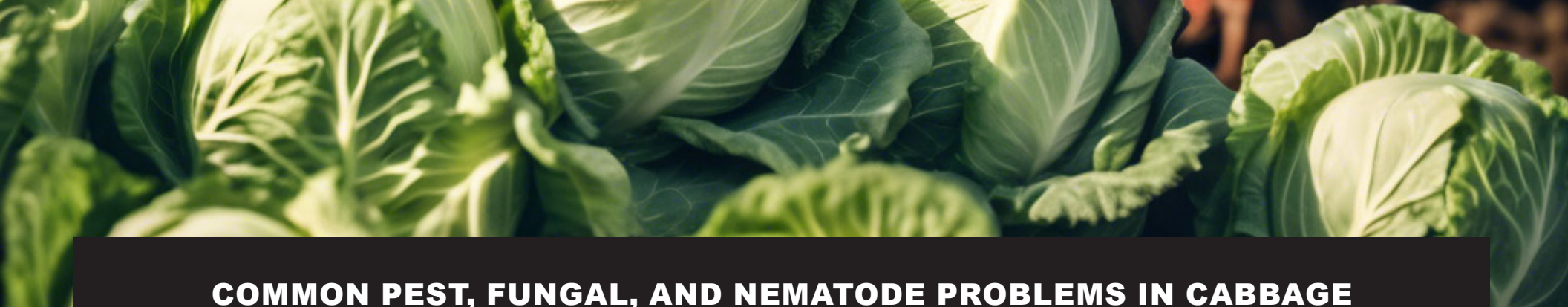
## Application rate - per hectare

# CABBAGE

	SEED GERMINATION	SEEDLING STAGE	VEGETATIVE GROWTH	HEAD INITIATION	HEAD DEVELOPMENT	MATURITY & HARVEST
	0-5 DAYS	5-20 DAYS	20-40 DAYS	40-60 DAYS	60-80 DAYS	80-110 DAYS
ORGANIC SOIL ENHANCEMENT	* NATURE VIGOR	5 KG	-	5 KG	-	No more fertilizer — excess N causes splitting.- Maintain even moisture to avoid cracking.
	* HYDRO ACTIVATOR	8 L	-	8 L	-	
	*AQUA ACTIVATOR GRW	500 G	-	500 G	-	
	**RHIZO ACTIVATOR	-	50 KG	-	-	
BIORATIONAL	*AQUA ACTIVATOR X1™ (NEMATO)	500 G	-	500 G	500 G	-
	*AQUA ACTIVATOR X3™ (PEST)	500 G	-	500 G	500 G	-
	*AQUA ACTIVATOR X5™ (FUNGUS)	500 G	-	500 G	500 G	-
	*AQUA ACTIVATOR X8™ (SNAIL)	-	-	-	-	-
	*AQUA ACTIVATOR X11™ (COMPOSE)	-	-	-	-	-
	*GREEN FURY (PEST)	Plant disease outbreak (pest): agitate 500 ml Green Fury™ into at least 400 liters of non-chlorine water to treat 1 hectare.				
	*NATURE VENOM (FUNGUS)	Plant disease outbreak (fungus and virus): agitate 500 ml Nature Venom™ into at least 400 liters of non-chlorine water to treat 1 hectare.				



# Diseases & Pests



# COMMON PEST, FUNGAL, AND NEMATODE PROBLEMS IN CABBAGE

Cabbage is susceptible to various pests, fungal, viral, and bacterial diseases that can reduce yield if not managed properly. Below are the major threats by growth stage, with symptoms and Microbebio-based control measures, supplemented by organic practices.

## SEED GERMINATIO

1	Pests	<ul style="list-style-type: none"><li>• Soil insects (wireworms)</li></ul>	Microbebio Aqua Activator X3
2	Fungal Diseases	<ul style="list-style-type: none"><li>• Pythium spp. (Damping-off)</li></ul>	Microbebio Aqua Activator X5

*Plant disease outbreak (pest): agitate 500 ml Green Fury™ into at least 400 liters of non-chlorine water to treat 1 hectare.*  
*Plant disease outbreak (fungus and virus): agitate 500 ml Nature Venom™ into at least 400 liters of non-chlorine water to treat 1 hectare.*





SEEDLING STAGE

1	Pests	<ul style="list-style-type: none"><li>• Aphids (<i>Brevicoryne brassicae</i>)</li><li>• Flea beetles (<i>Phyllotreta</i> spp.)</li><li>• Cutworms (<i>Agrotis</i> spp.)</li></ul>	Microbebio Aqua Activator X3
2	Fungal Diseases	<ul style="list-style-type: none"><li>• <i>Rhizoctonia solani</i> (Damping-off)</li><li>• <i>Pythium</i> spp.</li></ul>	Microbebio Aqua Activator X5
3	Nematodes	<ul style="list-style-type: none"><li>• Root-knot nematodes (<i>Meloidogyne</i> spp.)</li></ul>	Microbebio Aqua Activator X1

Plant disease outbreak (pest): agitate 500 ml Green Fury™ into at least 400 liters of non-chlorine water to treat 1 hectare.  
Plant disease outbreak (fungus and virus): agitate 500 ml Nature Venom™ into at least 400 liters of non-chlorine water to treat 1 hectare.

# VEGETATIVE GROWTH

1	<b>Pests</b>	<ul style="list-style-type: none"><li>• Diamondback moth (<i>Plutella xylostella</i>)</li><li>• Cabbage looper (<i>Trichoplusia ni</i>)</li><li>• Thrips (<i>Thrips tabaci</i>)</li></ul>	Microbebio Aqua Activator X3
2	<b>Fungal Diseases</b>	<ul style="list-style-type: none"><li>• Downy mildew (<i>Hyaloperonospora brassicae</i>)</li><li>• Alternaria leaf spot (<i>Alternaria brassicae</i>)</li></ul>	Microbebio Aqua Activator X5
3	<b>Nematodes</b>	<ul style="list-style-type: none"><li>• Root-knot nematodes</li></ul>	Microbebio Aqua Activator X1

*Plant disease outbreak (pest): agitate 500 ml Green Fury™ into at least 400 liters of non-chlorine water to treat 1 hectare.*  
*Plant disease outbreak (fungus and virus): agitate 500 ml Nature Venom™ into at least 400 liters of non-chlorine water to treat 1 hectare.*





HEAD INITIATION

1	Pests	<ul style="list-style-type: none"><li>• Aphids</li><li>• Diamondback moth</li><li>• Whiteflies (<i>Aleyrodes proletella</i>)</li></ul>	Microbebio Aqua Activator X3
2	Fungal Diseases	<ul style="list-style-type: none"><li>• Black rot (<i>Xanthomonas campestris</i> – bacterial, often pest-assisted)</li><li>• Alternaria leaf spot</li></ul>	Microbebio Aqua Activator X5
3	Nematodes	<ul style="list-style-type: none"><li>• Root-knot nematodes</li></ul>	Microbebio Aqua Activator X1

*Plant disease outbreak (pest): agitate 500 ml Green Fury™ into at least 400 liters of non-chlorine water to treat 1 hectare.*  
*Plant disease outbreak (fungus and virus): agitate 500 ml Nature Venom™ into at least 400 liters of non-chlorine water to treat 1 hectare.*



HEAD DEVELOPMENT

1	Pests	<ul style="list-style-type: none"><li>• Cabbage looper</li><li>• Diamondback moth</li><li>• Thrips</li></ul>	Microbebio Aqua Activator X3
2	Fungal Diseases	<ul style="list-style-type: none"><li>• Gray mold (Botrytis cinerea)</li><li>• Downy mildew</li></ul>	Microbebio Aqua Activator X5
3	Nematodes	<ul style="list-style-type: none"><li>• Root-knot nematodes</li></ul>	Microbebio Aqua Activator X1

Plant disease outbreak (pest): agitate 500 ml Green Fury™ into at least 400 liters of non-chlorine water to treat 1 hectare.  
Plant disease outbreak (fungus and virus): agitate 500 ml Nature Venom™ into at least 400 liters of non-chlorine water to treat 1 hectare.



## MATURITY & HARVEST

1	<b>Pests</b>	<ul style="list-style-type: none"><li>• Aphids (inside heads)</li><li>• Thrips</li></ul>	Microbebio Aqua Activator X3
2	<b>Fungal Diseases</b>	<ul style="list-style-type: none"><li>• Soft rot (<i>Pectobacterium</i> spp. – secondary infection)</li><li>• Gray mold</li></ul>	Microbebio Aqua Activator X5

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**MicrobeBio®**

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#OrganicBeets #EcoFriendlyFarming #BetterFlavorBetterFarming***