



Instructions

- Explanatory note –
- Benefit –
- Mode of action –
- Product data –
- Application –
- Usage recommendation –
- Test design –



Erläuterungen

Use the biostimulation of Penergetic to support plant growth.

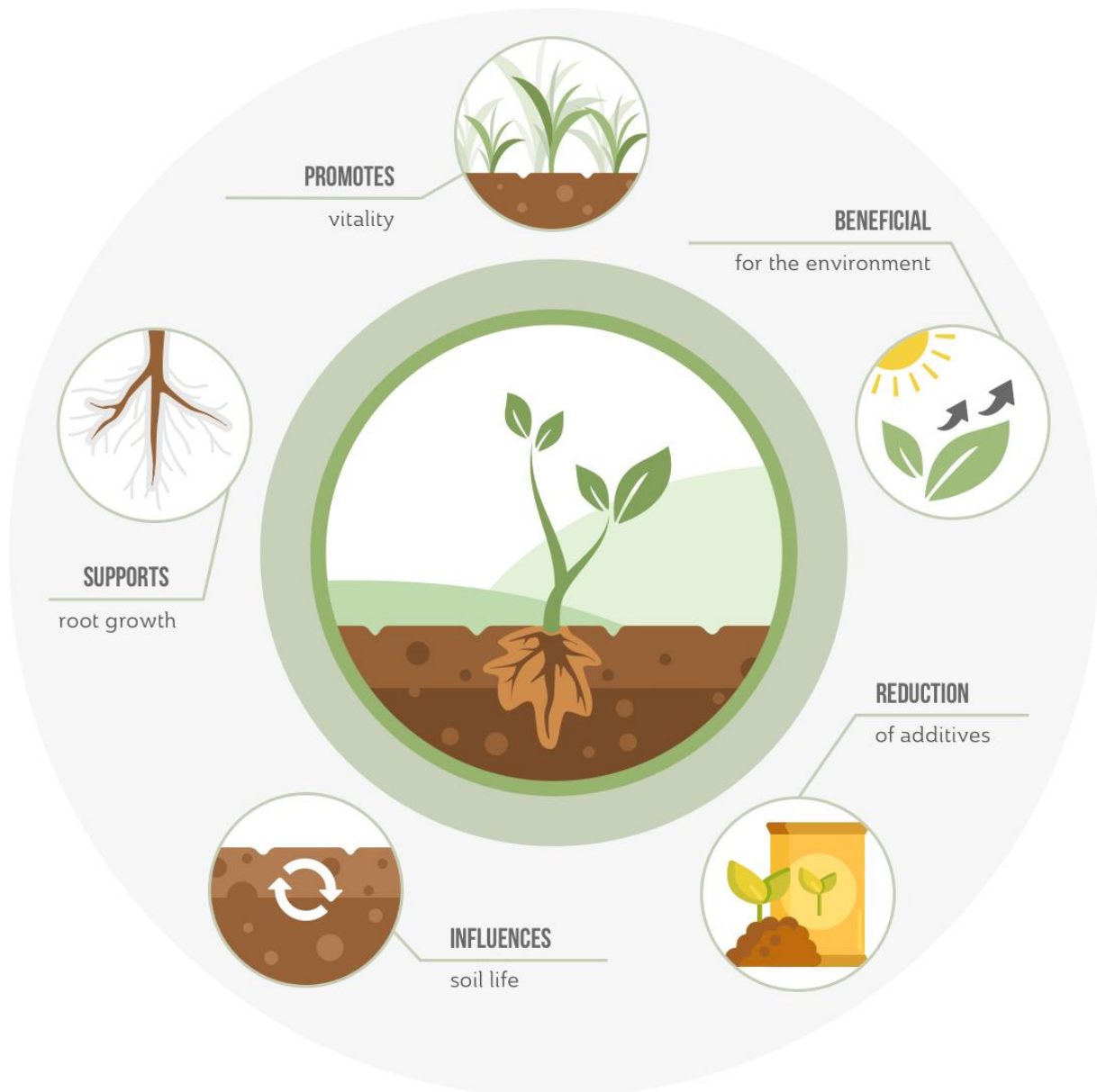
penergetic p is used as a plant strengthening agent. The product has a stabilizing effect on plant growth and strengthens the plant's immune system. This reduces the susceptibility to diseases and pests.

Another advantage is the stimulation of microbiology in the root area and the increase of the plant's natural nutrient uptake. Plants become more resistant and therefore more productive.




Vorteile

- Stimulates root growth
- Improved fruit formation
- Stimulates plant growth
- Influences soil life
- Strong and vital plants
- Fertilizer reduction possible
- Cost savings possible
- Beneficial for the environment
- High quantity
- Environmentally friendly
- Activates the symbiosis soil-root-plant
- Works synergistically with other agricultural inputs

Wirkungsweise



Produktdaten

Carrier material		Package		Shelf life
	Bentonite	Box	200 gr	5 Years
		Bucket	2.5 kg / 10 kg	
		Bag	8 kg	
	Bentonite ultra fine	Bucket	2 kg / 8 kg	5 Years
		Bag	6 kg	
	Molasses	Canister	2.5 lt / 10 lt	18 Months

We offer further carrier material, please ask us

Product forms	Article no.	Note
penergetic p Standard	4000	For all type of plants
penergetic p Flowers	4100	For all type of flowers
penergetic p Lawns	4110	Special product for lawn
penergetic p Fruit growing	4200	For all type of fruits
penergetic p Pineapple	4220	Specialized fruit product for pineapples
penergetic p Wine	4300	Special products for viticulture
penergetic p Wine fungicide	4301	
penergetic p Potatoes	4510	Specialized product for potatoes
penergetic p Vegetables	4520	For all type of vegetables
penergetic p Cereal & Corn	4540	Specialized product for cereal and corn
penergetic p Wire worm	4550	For wire worm control

Further specific products on request

Anwendung

The following doses are recommended by Penergetic International AG. These are general recommendations that need to be adapted according to local conditions. Factors like weather, climate, soil, plant species etc. can influence the products' efficacy.

On large areas (from approximately 500 hectares upwards) we recommend carrying out specific analyses in order to optimize the application of Penergetic products.

- For this purpose, Penergetic provides a template

penergetic p can be applied for all cultures and it can also be mixed in with most plant protection agents and fertilizers. However, the instructions from the manufacturers of the individual products must be adhered to. If necessary, a trial mix can be prepared. Mix the product with water and stir continuously before adding the mix to the spraying tank. Then pour the mix into the spraying tank with the agitator running and spray. For optimal results we recommend applying the product regularly.

Do not mix with oily substances.

A combined application of dry and liquid product is possible.

You will find further information and instructions for carrying out trials at the end of this document.




Dry application in gr /ha



Fluid application in ml / ha

Usage recommendation

Cereals

penergetic b Art. 3000	penergetic p Art. 4540	penergetic p Art. 4540	penergetic p Art. 4540	penergetic p Art. 4540	penergetic p Art. 4540	penergetic b Art. 3000
400 gr / ha or 400 ml / ha	50 gr / 50 kg	200 gr / ha or 200 ml / ha	150 gr / ha or 150 ml / ha	200 gr / ha or 200 ml / ha	150 gr / ha or 150 ml / ha	400 gr / ha
			Additional spray for pest control		Additional spray for pest control	
 <p>The diagram illustrates the growth stages of a cereal crop over time. It begins with 'Soil treatment' (a circular icon with soil and bubbles). A vertical dashed line indicates a 'Waiting period 10-15 days'. This is followed by 'Seeding BBCH 0' (a seed icon), 'Tillering BBCH 10' (a young shoot icon), '1-2 nodes BBCH 12' (a two-leaf seedling icon), 'Ear emergency BBCH 51' (a seedling with emerging ears icon), 'Milk development BBCH 59' (a mature plant with a detailed ear icon), and finally 'After harvest' (a circular icon with soil and bubbles).</p>						
Soil treatment	Seeding BBCH 0	Tillering BBCH 10	1-2 nodes BBCH 12	Ear emergency BBCH 51	Milk development BBCH 59	After harvest

Corn

**penergetic b
Art. 3000**

400 gr / ha or
400 ml / ha

**penergetic p
Art. 4540**

50 gr / 50 kg or
50 ml / 50 kg

**penergetic p
Art. 4540**

200 gr / ha or
200 ml / ha

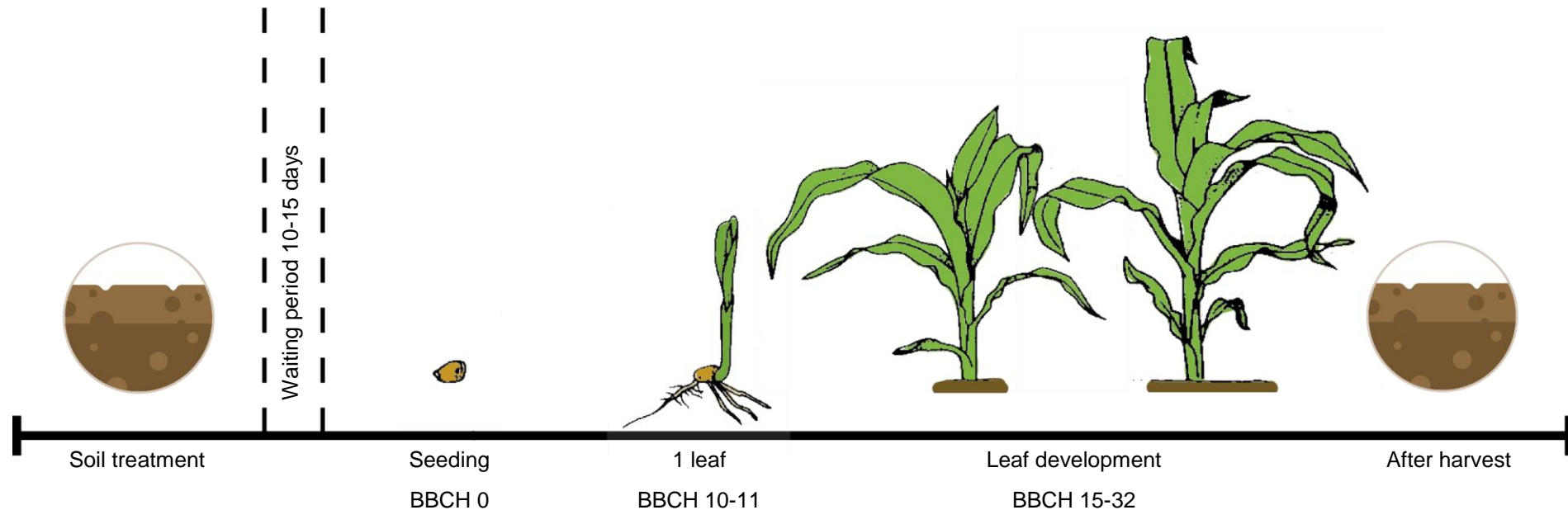
**penergetic p
Art. 4540**

250 gr / ha or 250 ml / ha

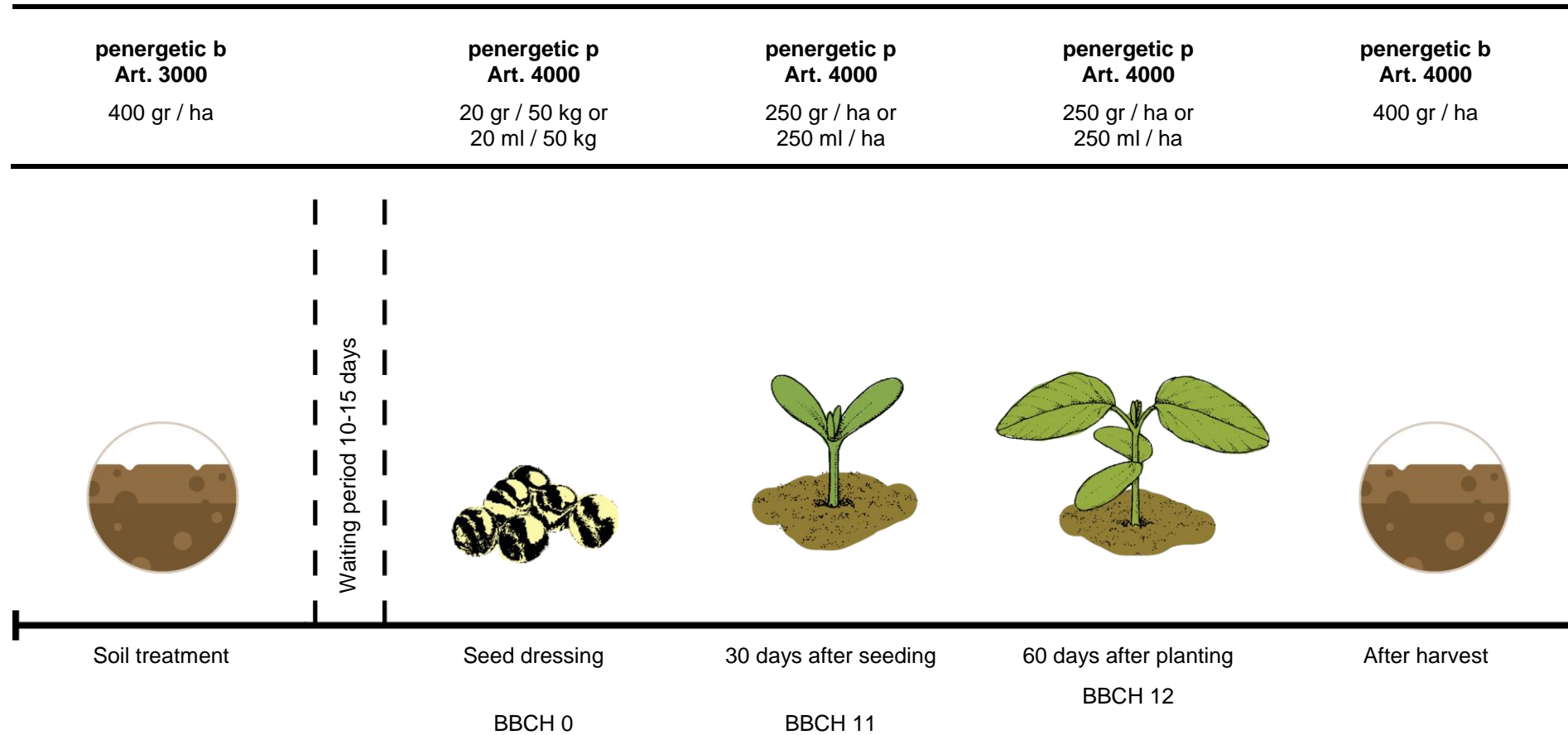
**penergetic b
Art. 3000**

400 gr / ha

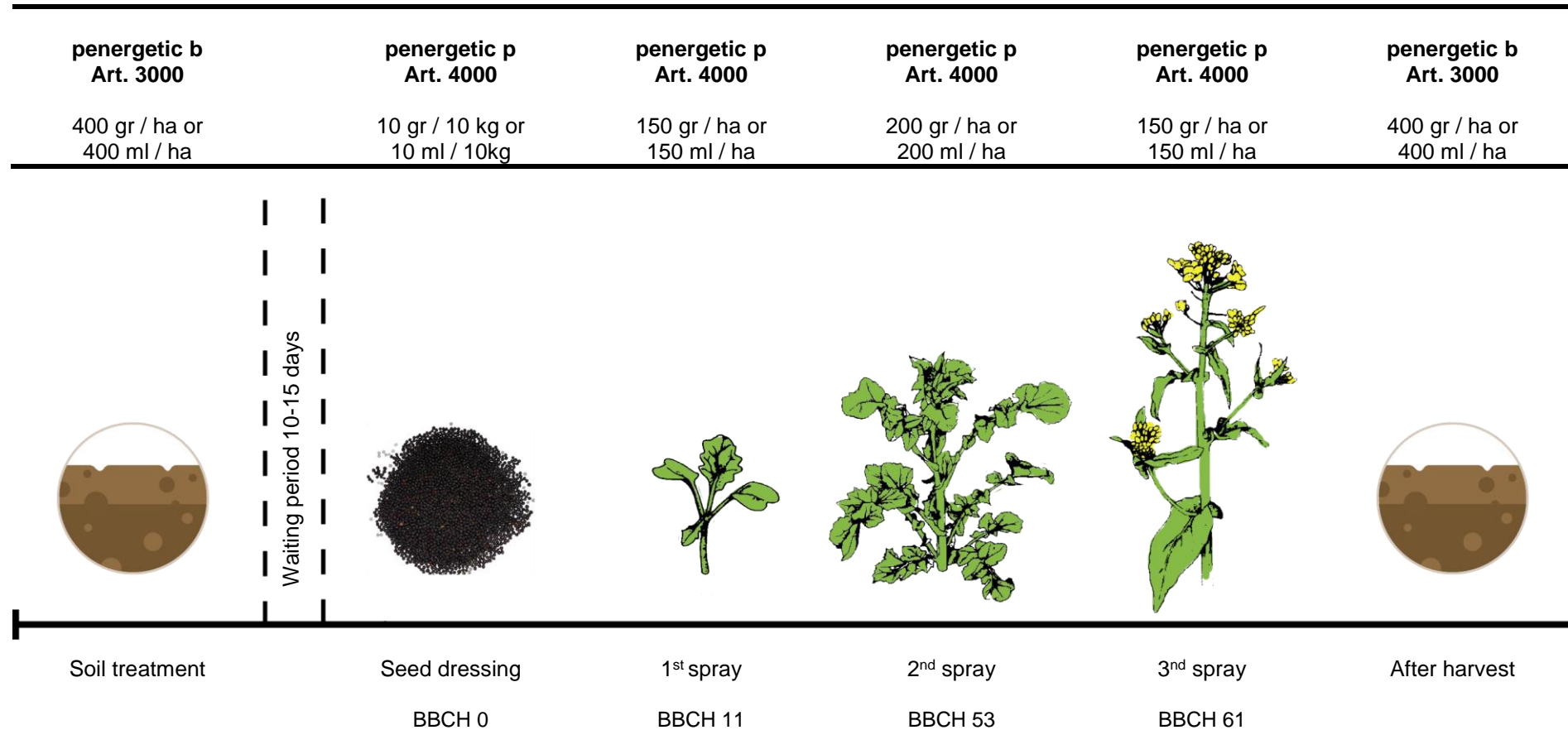
An application either in the last 6-leaf or 8-leaved phase if
there is a high infestation, spray in both growth stages



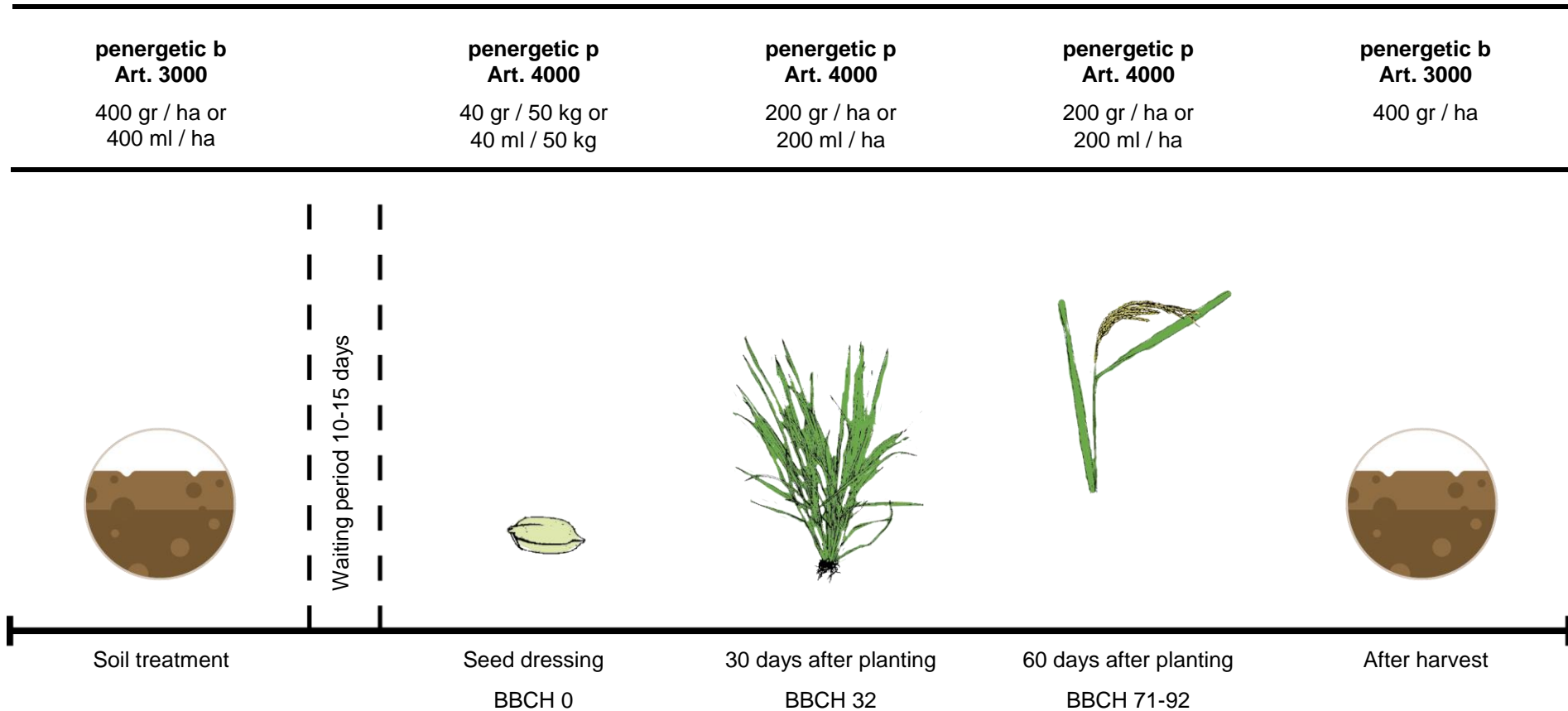
Soya/Sunflower



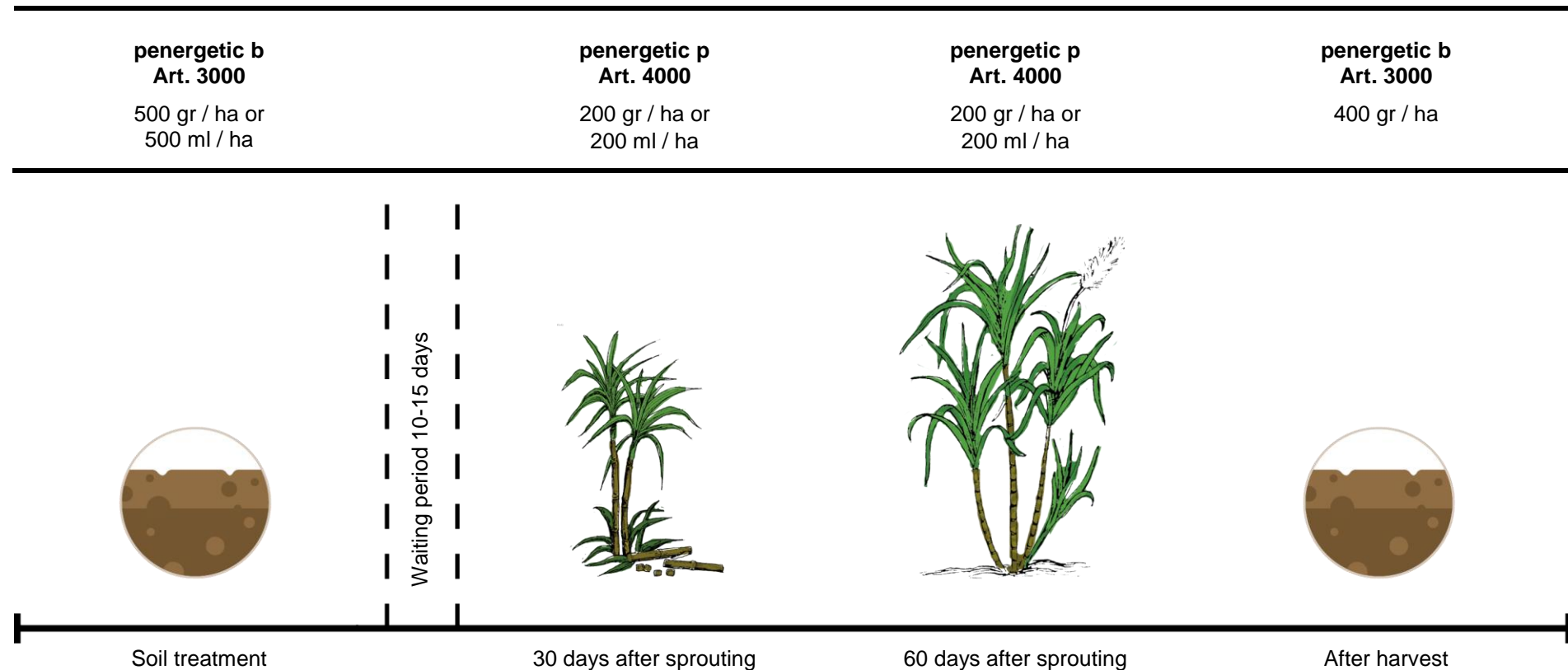
Rapeseed



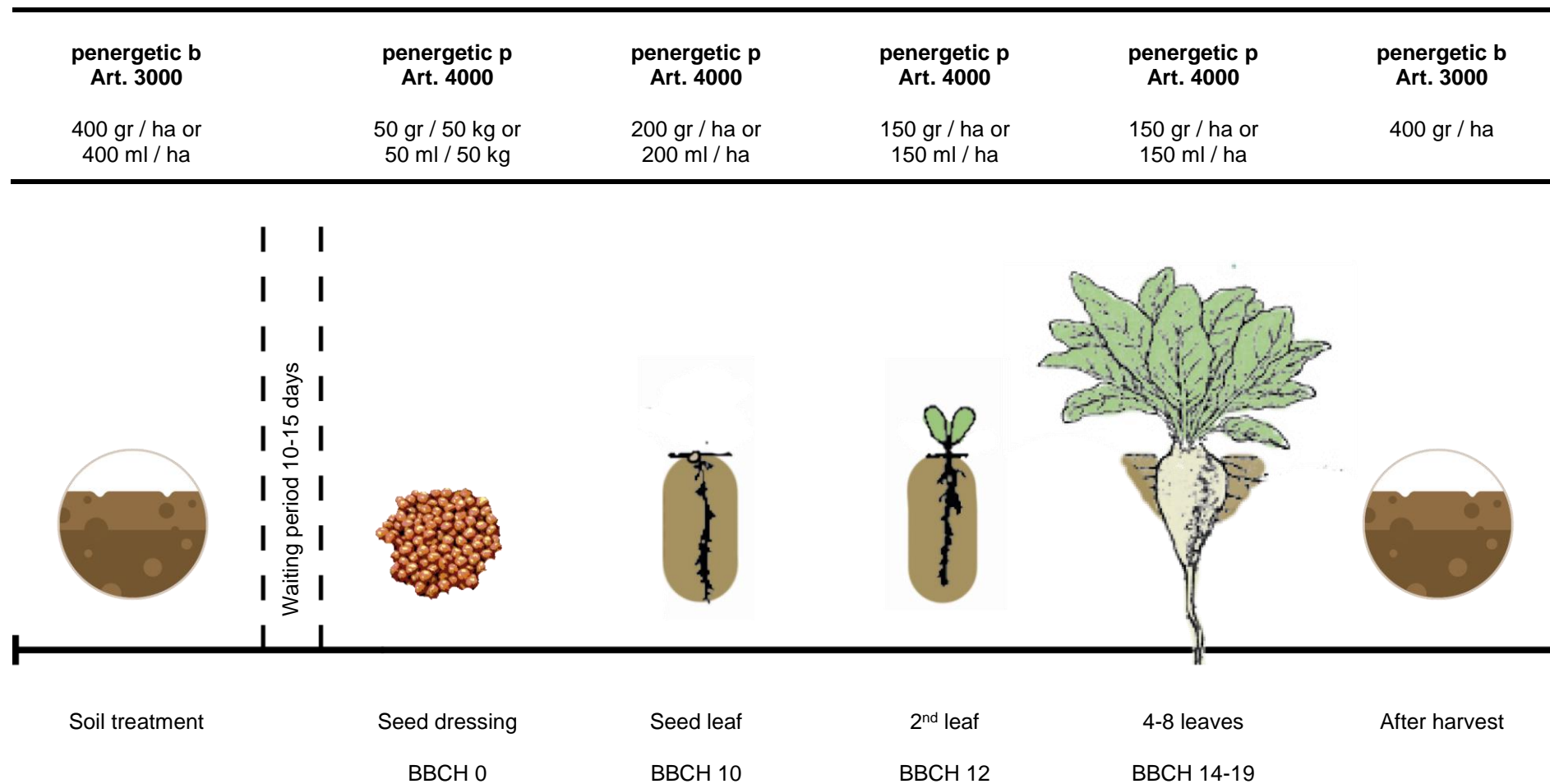
Rice



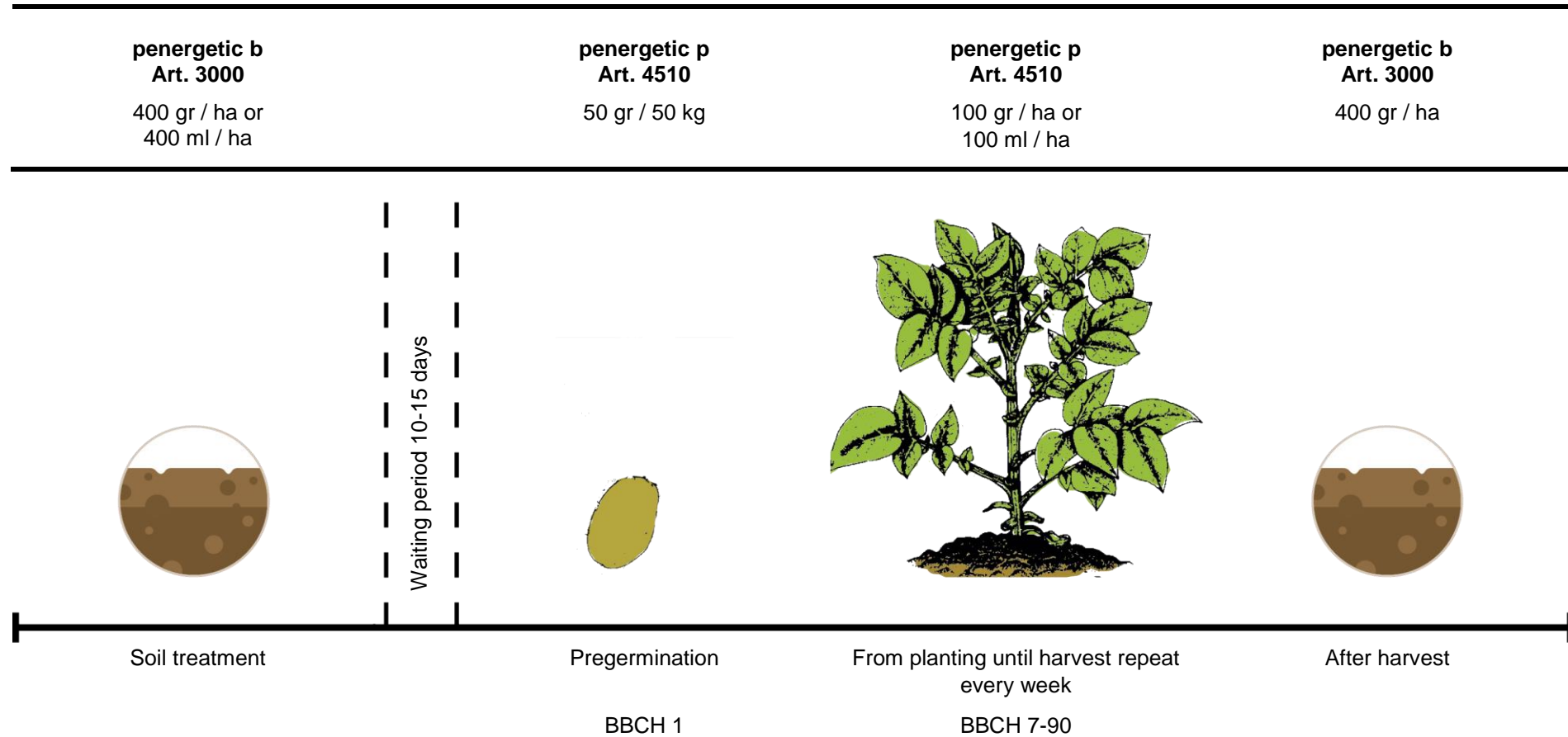
Sugar Cane




Zuckerrübe



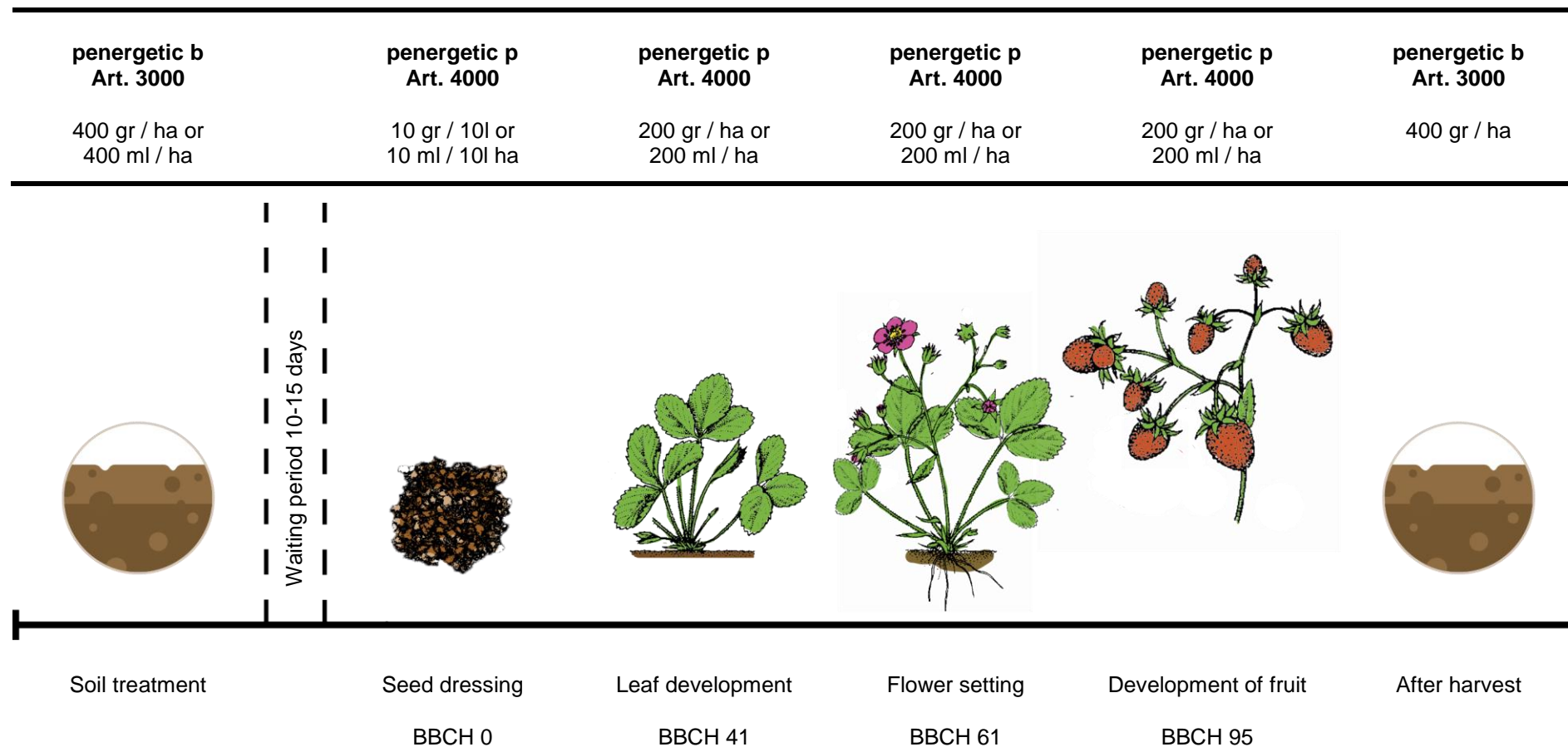
Potatoes



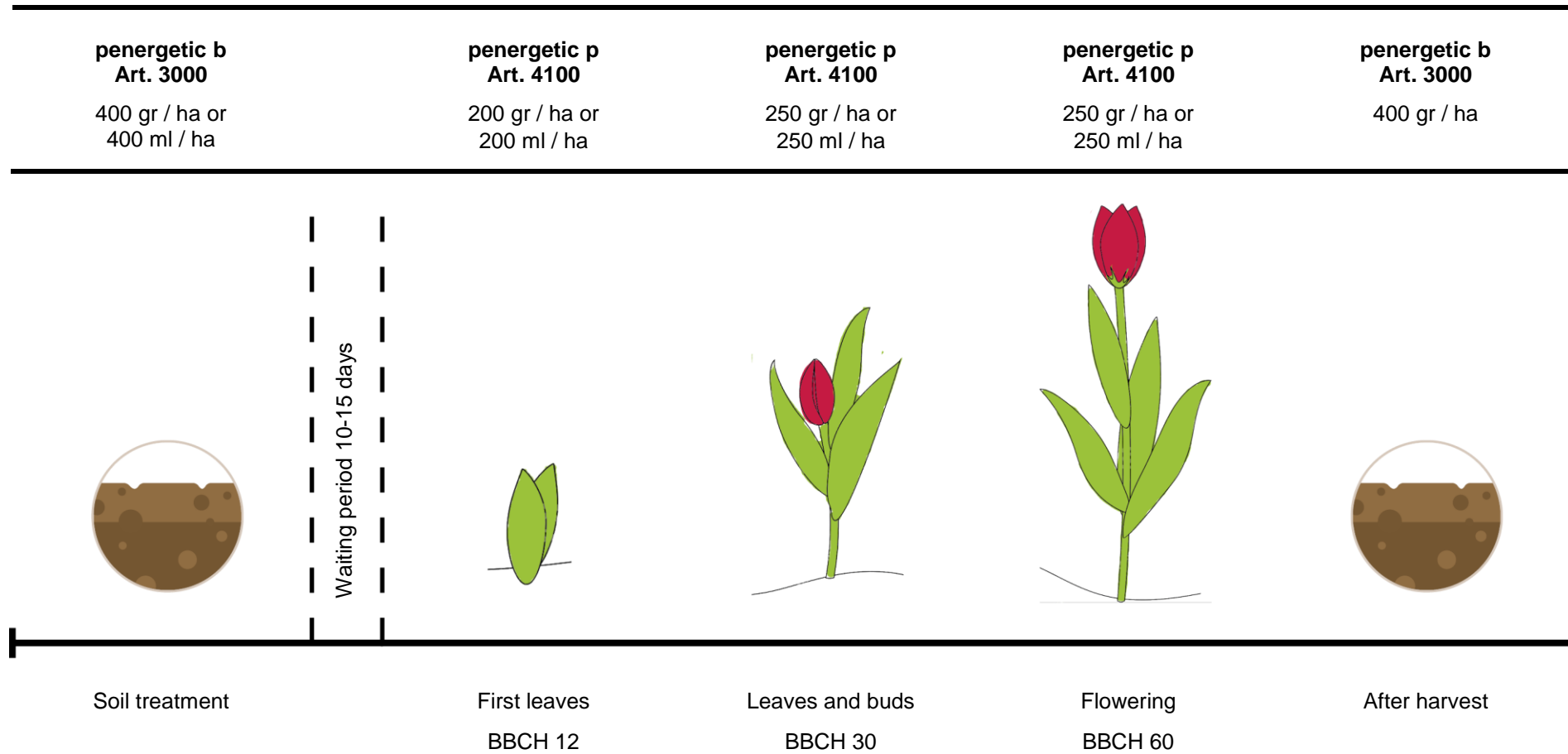
Vegetables (Field)

	penergetic b Art. 3000	penergetic p Art. 4520	penergetic p Art. 4520	penergetic p Art. 4520	penergetic p Art. 4520	penergetic p Art. 4520	penergetic b Art. 3000
	400 gr / ha or 400 ml / ha	100 gr / ha or 100 ml / ha	100 gr / ha or 100 ml / ha	100 gr / ha or 100 ml / ha (additional spray as required)	100 gr / ha or 100 ml / ha (additional spray as required)	100 gr / ha or 100 ml / ha (additional spray as required)	400 gr / ha
							
Soil treatment							Soil Care
Tomatoes		Planting BBCH 10	1.Wrap BBCH 12	2.Wrap BBCH 16	3.Wrap BBCH 61	Harvest BBCH 71	Nach der Ernte
Onion		Planting BBCH 10	Shooting BBCH 12	4 Leaves BBCH 14	6 Leaves BBCH 16	8-10 Leaves BBCH 18-20	Nach der Ernte
Salad		Planting BBCH 10	5-6 Leaves BBCH 15-16	8 Leaves BBCH 18	10 Leaves BBCH 19	Before head formation BBCH 45	Nach der Ernte
Cucumber		Planting BBCH 10	2-4 Leaves BBCH 12-14	8-10 Leaves BBCH 18-19	Begin Flowering BBCH 51	Harvest BBCH 89	Nach der Ernte

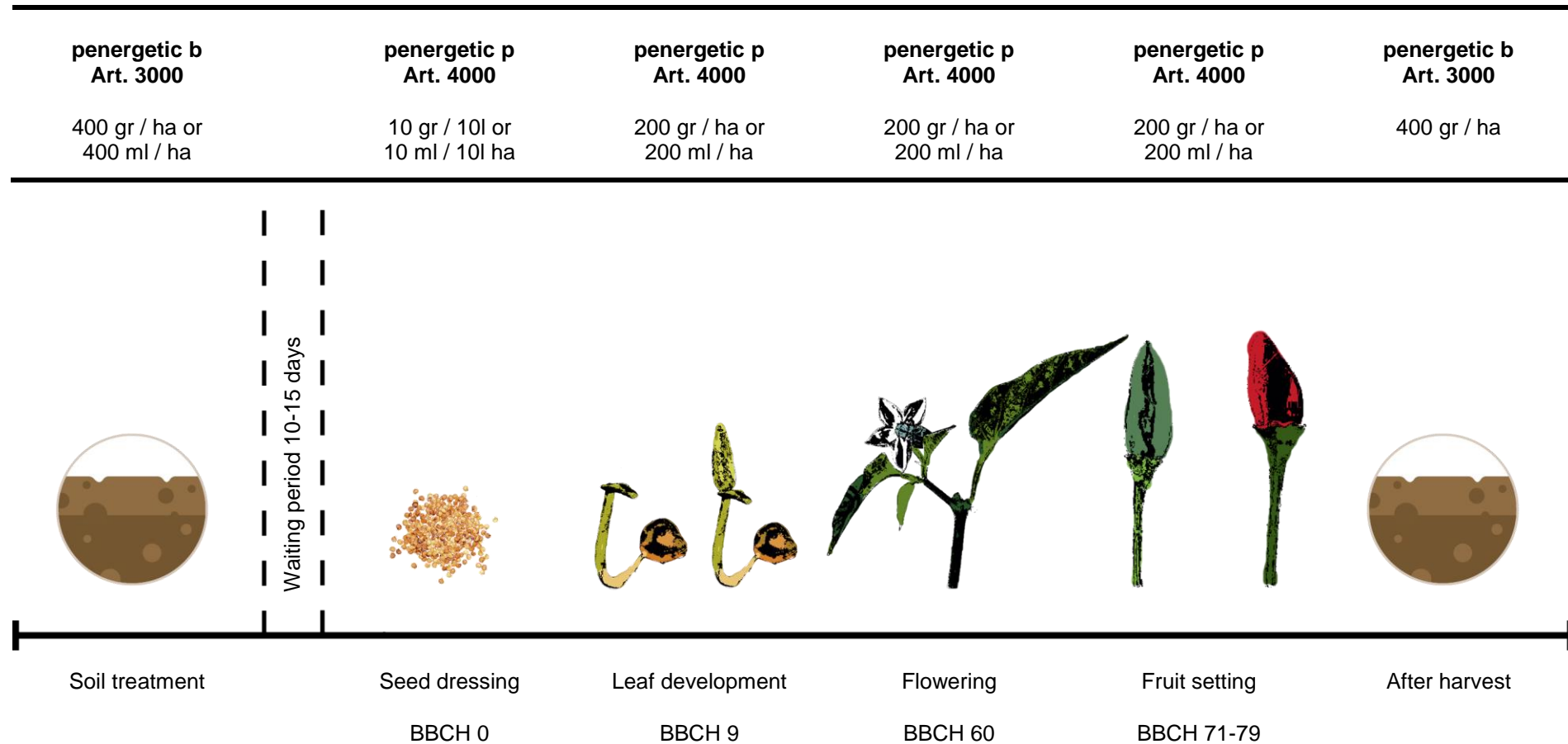
Berry fruits (Strawberry, Blackberry, Raspberry, Black currant)



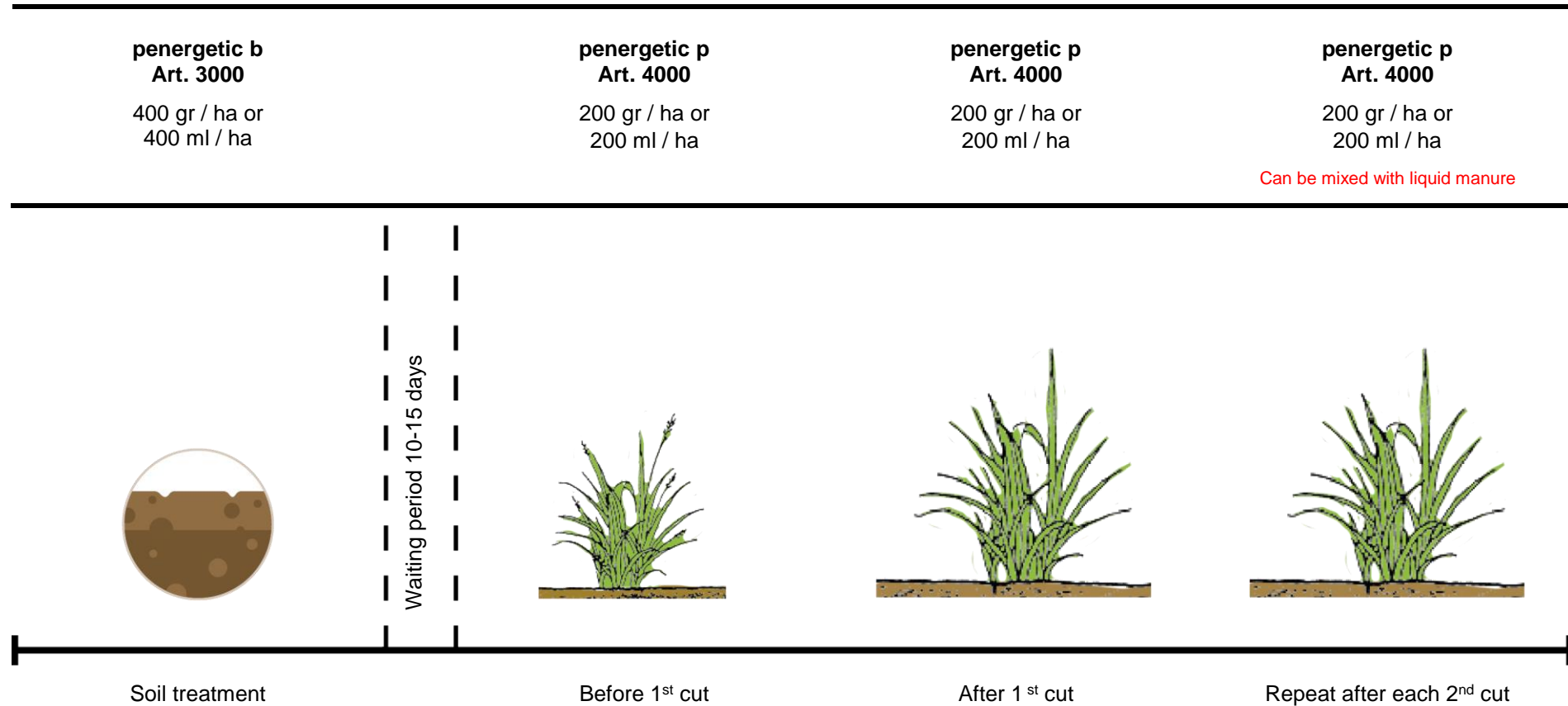
Blumen (Rosen/Schnittblumen/Plantage)



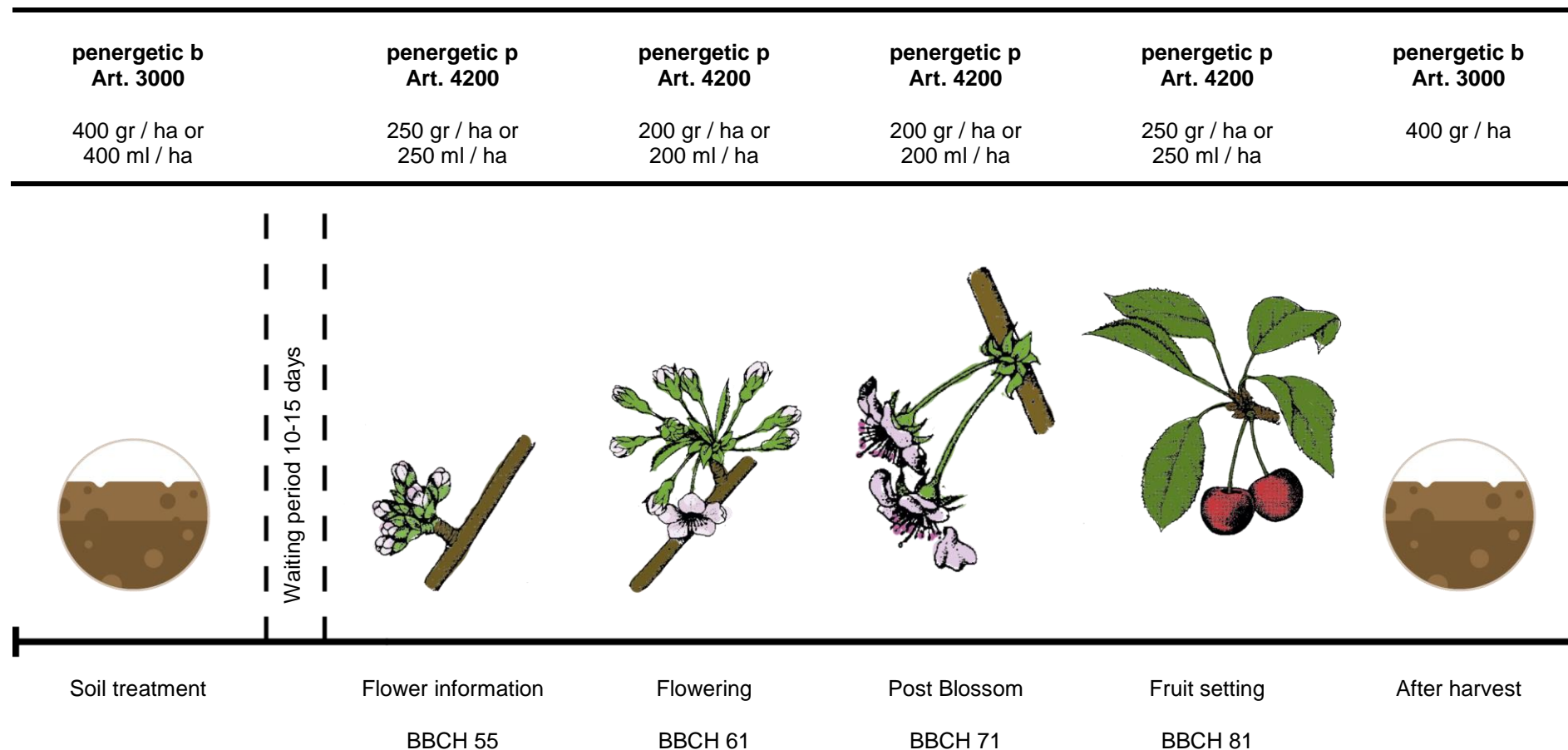
Spices/Herbs



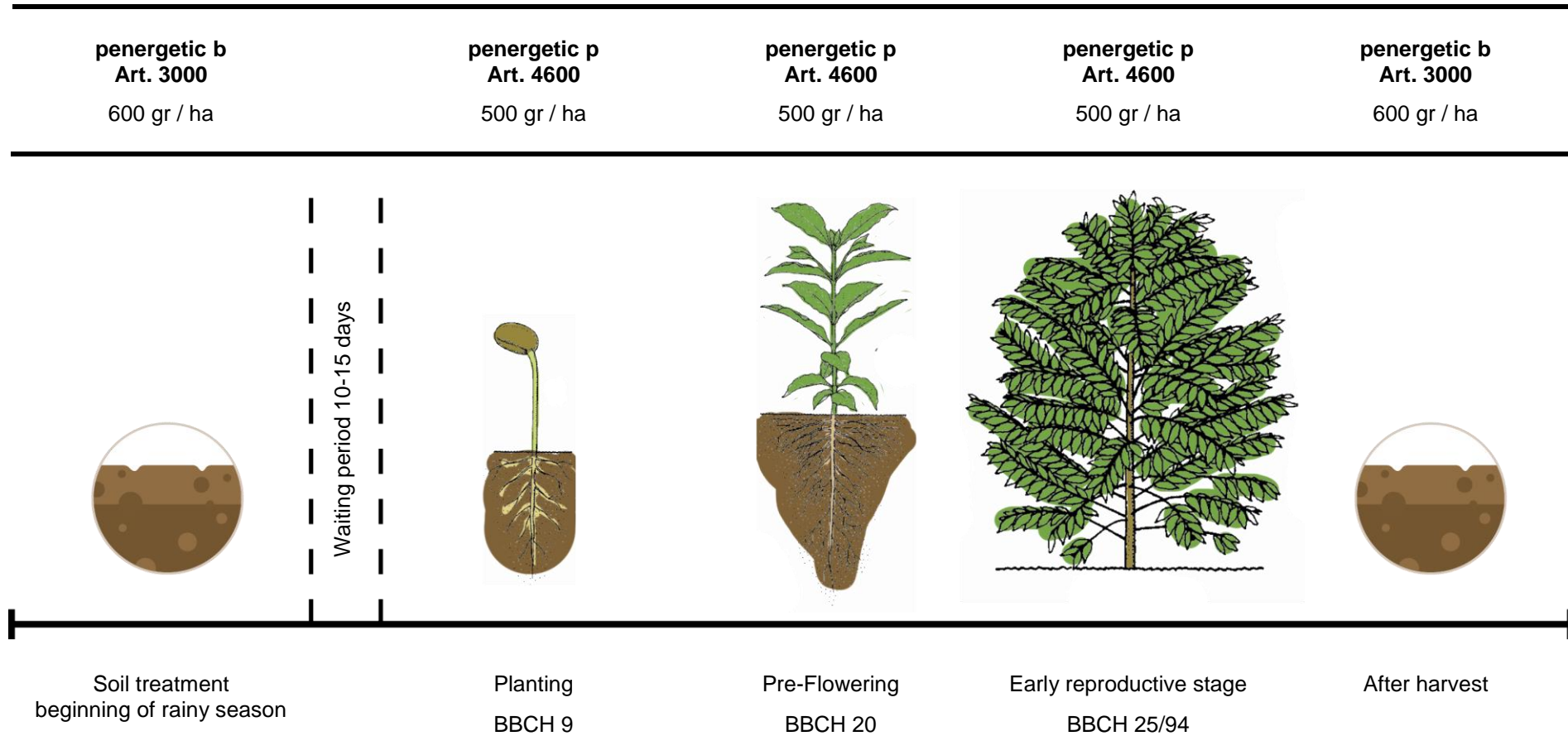
Pastures



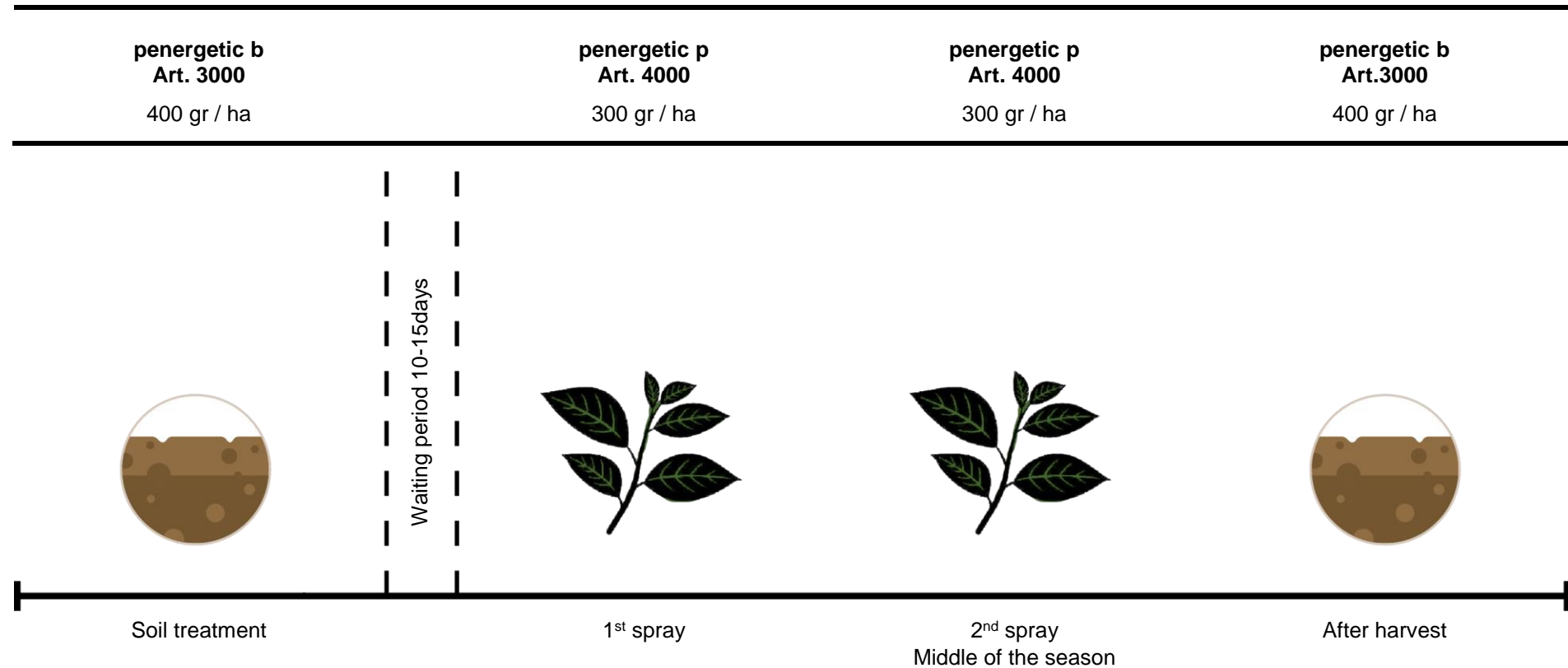
Fruit growing (also for Kiwi, Cherries, Plums, Prunes, Citrus fruits, etc.)



Coffee and Jatropha

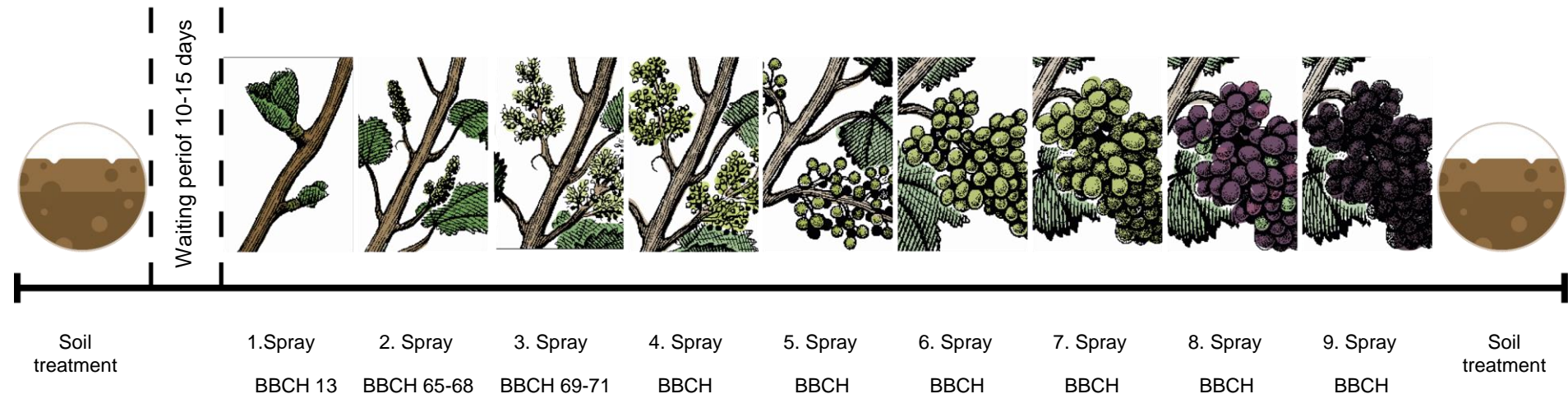


Tea



Viticulture

penergetic b Art. 3000	penergetic p Art. 4000	penergetic p Art. 4000								penergetic p Art. 4000	penergetic b Art. 3000
400 gr / ha or 500 ml / ha	200gr / ha	200gr / ha								200gr / ha	400 gr / ha
	penergetic p Art. 4300	penergetic p Art. 4300	penergetic p Art. 4300	penergetic p Art. 4300	penergetic p Art. 4300	penergetic p Art. 4300	penergetic p Art. 4300	penergetic p Art. 4300	penergetic p Art. 4300	penergetic p Art. 4300	
	200gr / ha	200gr / ha	200gr / ha	200gr / ha	200gr / ha	200gr / ha	200gr / ha	200gr / ha	200gr / ha	200gr / ha	
			penergetic p Art. 4301	penergetic p Art. 4301	penergetic p Art. 4301	penergetic p Art. 4301	penergetic p Art. 4301	penergetic p Art. 4301	penergetic p Art. 4301		
			200gr / ha	200gr / ha	200gr / ha	200gr / ha	200gr / ha	200gr / ha	200gr / ha		



Palm trees

**penergetic b
Art. 3000**
600 gr / ha

**penergetic p
Art. 4000**
2 kg / ha once a year or dose divided according
spray applications

**penergetic p
Art. 4000**
300 gr / ha



Soil treatment

Wartezeit 10-15 Tage



One Spraying



After harvest

Testdesign

Procedure for trials

- If penergetic products are applied with the fertilizer sprayer, the control field should be sprayed first. Then the test area. Then clean the device.
- Pot tests have shown that a distance of 1.5 m between the pots is sufficient. For tree tests, distances of 5 - 10 m are recommended.
- Attention when combining with the AquaKat. Water or metal can transmit the effects over long distances.
- It takes several weeks until the effect of the Penergetic Information disappears from the test device.
- On slopes, place the Penergetic plot at the bottom, as the rain, for example, will flush the Penergetic products onto the control plot.

Reduction of fertilizer

The Penergetic products act as optimizers. If mineral fertilizers (NPK) or similar products are used, they should be reduced by ~20%. Otherwise the effect of over-fertilization could occur.

Mixture penergetic b and penergetic p

No mixture of penergetic b and penergetic p. When using penergetic b and penergetic p, an interval of at least 10-15 days should be scheduled.

Setting up and documenting a measurement

- It is essential to use separate utensils (test tubes, watering cans, fertilizer containers, etc.) throughout the duration of the experiment and to label them accordingly.
- Definition of a person in charge of the test
- Images from the beginning (high quality images)
- Use previous documents (evaluations/analyses without Penergetic) to enable clear comparison
- Use previous soil investigation or carry it out before the test if necessary.
- Describing the initial situation and the goal or objective
- Creating data / control sheets in which all parameters (dose, spray rate, etc...) are recorded