



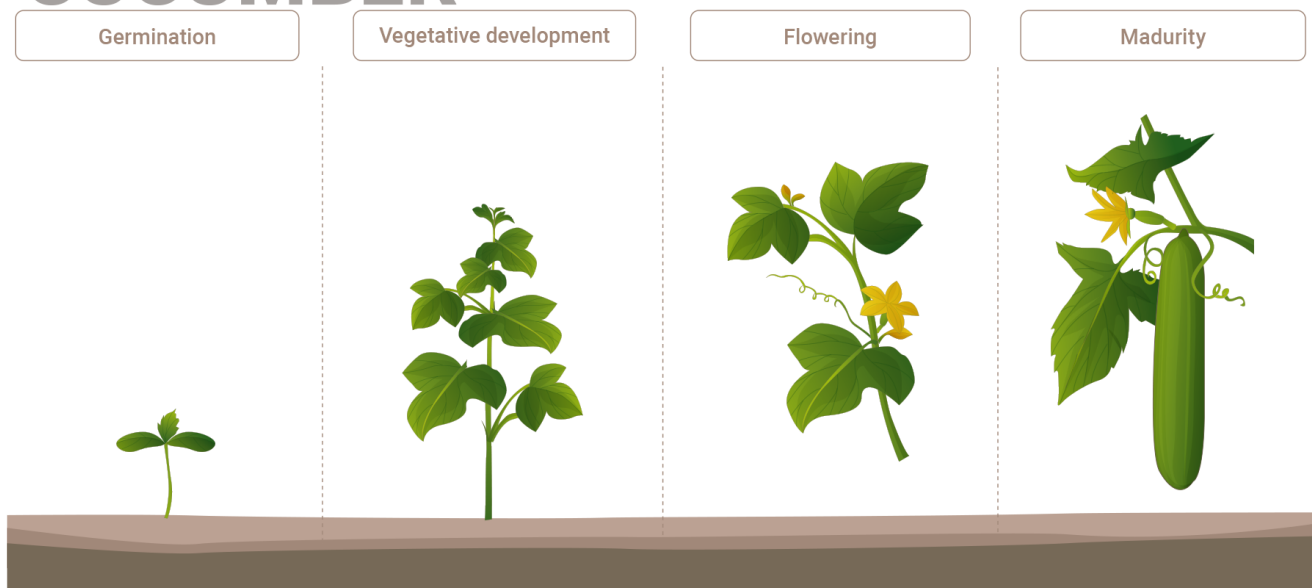
## Cucumber phenological phases and their nutrition requirements

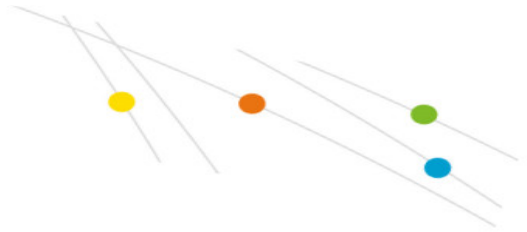
Recommendations for mineral nutrition by micro-irrigation and fertigation, of open-field- grown cucumbers, at yield level of 40-50 MT/ha

Development stage	Physical application rates (kg/ha)				Proportional application rates			
Base dressing	N	60	P <sub>2</sub> O <sub>5</sub>	160	N	1	P <sub>2</sub> O <sub>5</sub>	2,67
	K <sub>2</sub> O	200	CaO	60	K <sub>2</sub> O	3,3	CaO	1,0
	MgO	50			MgO	0,83		
Transplanting - Flowering	N	40	P <sub>2</sub> O <sub>5</sub>	10	N	1	P <sub>2</sub> O <sub>5</sub>	0,25
	K <sub>2</sub> O	60	CaO	30	K <sub>2</sub> O	1,5	CaO	0,75
	MgO	10			MgO	0,25		
Flowering to fruit-set	N	70	P <sub>2</sub> O <sub>5</sub>	20	N	1	P <sub>2</sub> O <sub>5</sub>	0,29
	K <sub>2</sub> O	140	CaO	40	K <sub>2</sub> O	2,0	CaO	0,57
	MgO	40			MgO	0,57		
Fruit set to harvest	N	80	P <sub>2</sub> O <sub>5</sub>	20	N	1	P <sub>2</sub> O <sub>5</sub>	0,25
	K <sub>2</sub> O	200	CaO	50	K <sub>2</sub> O	2,5	CaO	0,63
	MgO	30			MgO	0,38		
<b>Total uptake rate (kg/ha)</b>	<b>N</b>	<b>142</b>	<b>P<sub>2</sub>O<sub>5</sub></b>	<b>210</b>	<b>N</b>	<b>1</b>	<b>P<sub>2</sub>O<sub>5</sub></b>	<b>0,84</b>
	<b>K<sub>2</sub>O</b>	<b>260</b>	<b>CaO</b>	<b>180</b>	<b>K<sub>2</sub>O</b>	<b>2,4</b>	<b>CaO</b>	<b>0,72</b>
	<b>MgO</b>	<b>72</b>			<b>MgO</b>	<b>0,52</b>		

Recommendations for mineral nutrition by micro-irrigation and fertigation, of protected (tunnel/greenhouse) soilless- grown cucumbers, at yield level of 200-250 MT/ha

# -CUCUMBER





\* 80-90% as  $\text{NO}_3^-$ , 10-20% as  $\text{NH}_4^+$

\*\* Final concentrations, including the original Ca and Mg contents of the irrigation water.