

## A general guide to grow leafy vegetables (soil cultivation in plastic roof-netted growing house)

Type of Vegetables	Transplanting Age	Fertilising	Spacing in Soil Bed (cm)	Harvest (DAS)	Est. Yield* (kg/m <sup>2</sup> )
Bayam (Sharp leaf)	Direct sowing Seeds: 0.5g/m <sup>2</sup>	Basal fertiliser, chicken manure compost: 1.5 kg/m <sup>2</sup> , apply 7 days before sowing 1 <sup>st</sup> side: NPK 18:6:5, 15 g/m <sup>2</sup> (7 DAS), via soil drenching (5L/m <sup>2</sup> ) 2 <sup>nd</sup> side: NPK 18:6:5, 15 g/m <sup>2</sup> (14 DAS), via soil drenching (5L/m <sup>2</sup> )	NA	21-23	2.8-3.0
Kangkong (Bamboo leaf)	Direct sowing Seeds: 18 g/m <sup>2</sup>				3.9-4.9
Hong Kong Choy Sum (Early flower)	14 DAS	Basal fertiliser, chicken manure compost: 1.5 kg/m <sup>2</sup> , apply 7 days before transplanting 1 <sup>st</sup> side: NPK 21:21:21 foliar spray, 4g/L/m <sup>2</sup> (7 DAS) 2 <sup>nd</sup> side: NPK 18:6:5, 15 g/m <sup>2</sup> (16 DAS), via pellet 3 <sup>rd</sup> side: NPK 18:6:5, 15 g/m <sup>2</sup> (23 DAS), via soil drenching (5L/m <sup>2</sup> )	10x 15	28-30	3.4-3.8
Caixin (Medium flower)			10x 15	30-33	3.8-4.3
Xiaobaicai			10x 10	30-33	3.0-3.3
Baicai	16 DAS	Basal fertiliser, chicken manure compost: 1.5 kg/m <sup>2</sup> , apply 7 days before transplanting 1 <sup>st</sup> side: NPK 21:21:21 foliar spray, 4g/L/m <sup>2</sup> (7 DAS) 2 <sup>nd</sup> side: NPK 18:6:5, 15 g/m <sup>2</sup> (18 DAS), via pellet 3 <sup>rd</sup> side: NPK 18:6:5, 15 g/m <sup>2</sup> (25 DAS), via soil drenching (5L/m <sup>2</sup> )	15x 15	35-37	3.7-5.0
Chinese cabbage			20x 20	35	3.8-4.5
Gailan	18 DAS	Basal fertiliser, chicken manure compost: 1.5 kg/m <sup>2</sup> , apply 7 days before transplanting 1 <sup>st</sup> side: NPK 21:21:21 foliar spray, 4g/L/m <sup>2</sup> (7 DAS) 2 <sup>nd</sup> side: NPK 18:6:5, 15 g/m <sup>2</sup> (20 DAS), via pellet /soil drenching (5L/m <sup>2</sup> ) 3 <sup>rd</sup> side: NPK 18:6:5, 15 g/m <sup>2</sup> (27 DAS), via soil drenching (5L/m <sup>2</sup> ) 4 <sup>th</sup> side: NPK 18:6:5, 15 g/m <sup>2</sup> (34 DAS), via soil drenching (5L/m <sup>2</sup> )	15x 15	42	3.6
Lettuce			20x 20	45	4.4-5.4

\*Est. yield is based on field trials carried out in July 2016

### **General practices:**

- 1) For irrigation method: Overhead sprinkler
  - At seedling stage: 3 times/day, 2-3 mins
  - After transplanting: 3 times/day, 3-5 mins

The watering duration and frequency is dependent on weather conditions. As a rule of thumb, maintain 60% moisture of soil.

- 2) For pesticide application: Apply **ONLY** when needed.

### **Definitions:**

<b>Basal fertiliser</b>	Also known as pre-planting fertiliser, refers to fertiliser applied to soil before sowing of seeds or planting of seedlings.
<b>Chicken manure compost</b>	Chicken manure that had undergone certain level of processing and used to provide nutrients for vegetables.
<b>Days after sowing (DAS)</b>	Number of days after the seeds were placed in respective growth condition.
<b>Foliar spray</b>	A technique of applying liquid fertiliser directly to the leaves.
<b>NPK fertiliser</b>	A compound fertiliser containing 3 macronutrients namely nitrogen (N), phosphorus (P) and potassium (K) often used for side dressing. An NPK value of 18:6:5 means the fertiliser contains 18% of total Nitrogen (N), 6% of total Phosphate ( $P_2O_5$ ) and 5% of total Potassium ( $K_2O$ ).
<b>Pellet</b>	NPK fertiliser can come in pellet form which can be applied directly onto the soil.
<b>Soil drenching</b>	NPK fertiliser can be dissolved into water and applied directly to the base of plants to provide targeted fertilisation.
<b>Side dressing (1<sup>st</sup> - 4<sup>th</sup>side)</b>	Application of fertilisers to crops after sowing of seeds or planting of seedlings.
<b>Transplanting</b>	A technique of moving or transferring a plant from one location to another.