

Growing Guide For Zinnia Magellan | Short Stuff

(Zinnia elegans)

Stage 1 & 2 (Germination)

Germination: 1-3 days

Sowing Media: Use a well-drained, disease-free, peat moss with pH 5.5-5.9 (EC 0.5-0.75 mmhos/cm)

Sowing: Use 200 holes seedling tray, 1 seed per cell. Ensure the seeds are covered

Moisture: Keep peat moss very wet (Level 5), when wet, peat moss is dark brown color

Light: Not required for germination

Stage 3 & 4 (Young Plant Production)

Fertilizer: Apply 50 - 75 ppm N

Moisture: Media should be allowed to dry between irrigations. Alternate between moisture level 2 and 4.

Note: Transplant Zinnias on time. Stress in the plug can lead to premature flowering.

Stage 5 (Transplant To Finish)

Media: Use a well-drained, disease-free, peat moss with pH 5.5 – 5.9 (EC 1.4 – 2.0 mmhos/cm)

Fertilizer: Apply between 200 - 250 ppm N

Note: Transplant directly into the finished container. Place the rooting media slightly below the level of media in the container. Make sure that the root ball is covered and that the plug is situated in the center of the pot.

Crop Scheduling

Sow to transplant (seedling tray 200 holes) : 2 - 3 weeks

Transplant to finish in 10 cm pot : 7 - 8 weeks (1 plug / pot)

Transplant to finish in 12 cm pot : 7 - 8 weeks (1 plug / pot)

Transplant to finish in 14 cm pot : 7 - 8 weeks (1 - 2 plugs / pot)

Total crop time from sow to finish : 9 - 11 weeks

Common Problems

Pests: Whiteflies, Thrips, Aphids

Diseases: Botrytis, Powdery mildew, Bacterial leaf spot, Alternaria leaf spot

Maklumat Penanaman Untuk Zinnia Magellan | Short Stuff (*Zinnia elegans*)

Peringkat 1 & 2 (Percambahan)

Percambahan:	1-3 hari
Media Semaian:	Gunakan peat moss bersaliran baik dan tidak berpenyakit dengan pH 5.5-5.9 (EC 0.5 - 0.75 mmhos/cm)
Semaian:	Gunakan dulang semaian 200 lubang, 1 biji benih/sel. Pastikan biji benih terbenam
Kelembapan Media:	Pastikan peat moss sangat lembap (tahap 5), apabila lembap, peat moss berwarna coklat gelap
Penchayaan:	Tidak diperlukan

Peringkat 3 & 4 (Penghasilan Anak Pokok)

Baja:	Gunakan baja 50 – 75 ppm N
Kelembapan:	Biarkan media kering di antara pengairan. Selang selikan antara tahap kelembapan 2 dan 4

Nota: Pindahkan Zinnia ke pasu besar mengikut jadual pemindahannya. Tekanan pada anak pokok boleh menyebabkan proses pembungaan pramatang

Peringkat 5 (Pemindahan Sehingga Dewasa)

Media:	Gunakan peat moss bersaliran baik dan tidak berpenyakit dengan pH 5.5 - 5.9 (EC 1.4 – 2.0 mmhos/cm)
Baja:	Gunakan baja pada 125 – 175 ppm N

Nota: Pindahkan terus ke pasu besar. Letakkan media anak pokok sedikit rendah daripada media di dalam bekas semasa pemindahan. Pastikan akar pokok terbenam dan anak pokok ditanam di tengah-tengah pasu.

Jadual Penanaman

Semaian sehingga pemindahan (dulang semaian 200 lubang)	: 2 - 3 minggu
Pemindahan sehingga dewasa (Pasu 10 cm)	: 7 - 8 minggu (1 pkk/pasu)
Pemindahan sehingga dewasa (Pasu 12 cm)	: 7 - 8 minggu (1 pkk/pasu)
Pemindahan sehingga dewasa (Pasu 14 cm)	: 7 - 8 minggu (1-2 pkk/pasu)
Tempoh masa tanaman dari semaian sehingga dewasa	: 9 - 11 minggu

Masalah Lazim

Serangga: Lalat putih, Kutu thrips, Kutu daun,

Penyakit: *Botrytis*, Kulapok debu, Tompok daun