

2012 Rooted No-Pinch Early Flowering Mum Fertilizer Program & Calendar

Month	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Jan 2012	Order your mums						
Feb 2012	Order containers, soil, fungicides, insecticides, fertilizers, groundcover, plant growth regulators						
Jun 2012	10	11	12	13	14	15 Stick or plant mums Constant liquid feed (CLF) for rooted cuttings 1. 300-400 ppm N 2. Ammonium-based nitrogen TRANSPLANT	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29 Treat soil with Marathon G or Mantra G for insects AND Banrot G for diseases	30 Roots should reach sides of containers
Jul 2012	1	2	3	4	5	6 End ammonium-based nitrogen program RAPID VEGETATIVE GROWTH STAGE	7 ROTATE IN Nitrate-based nitrogen every other or every 3rd irrigation to control stretching – CLF ammoniacal & nitrate-based nitrogen program
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	1	2	3 Heritage,™ + CTN or Veranda for foliar/soil diseases; Pageant, Magellan, or Banrot for pythium	4 REDUCE feed to 200 to 250 ppm constant feed using nitrate based nitrogen
Aug 2012	5	6	7	8	9	10	11 EC:SME= 2.0-3.0 mS/cm; Pour thru = 2.5-4.0 mS/cm
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25 REDUCE feed to 50 to 100 ppm using nitrate nitrogen fertilizer 15-0-15 2 times per week

Month	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Aug 2012	26	27 x	28	29 EC:SME= 0.8-1.5 mS/cm; Pour thru = 1.0-2.0 mS/cm	30	31 x FINISH	1
Sep 2012	2	3 x	4	5 REDUCE to CLEAR WATER when buds are pea-sized w/ color	6	7	8
	9	10	11	12	13	14	15 Flowering mid-September to mid-October – DAY 93 after stick

The above program should be used as guideline only. Weather conditions, plant health, flowering date and market target will determine duration of stages of the program – Transplant, Rapid Vegetative Growth, Finish.

FERTILIZATION NOTES

Ammonium-based fertilizer (NH₄-N)

~40% NH₄-N produces soft lush growth; desirable early in production cycle

Catalog Number	Fertilizer	% Ammoniacal nitrogen	% Nitrate nitrogen
07-5918	Jack's 20-10-20 General Purpose	40	60
07-5920	Jack's 20-10-20 Peat-Lite	40	60
07-5900	Jack's 21-5-20 All Purpose	37.7	62.3
07-5945	Jack's 21-7-7 Acid Special	34.8	60

Nitrate-based fertilizer (NO₃-N)

Hard compact growth; desirable late in the production cycle

Catalog Number	Fertilizer	% Ammoniacal nitrogen	% Nitrate nitrogen
07-5902	Jack's 15-5-15 Ca-Mg	20	80
07-5905	Jack's 13-2-13 LX Plug	6	94
07-5930	Jack's 15-0-15 Dark Weather	4	80

FERTILIZATION NOTES (continued)

Alkaline water

Peters Professional 15-5-25 Peat Lite Flowering Crop Special

Jack's 21-5-20 All-Purpose

Jack's 21-7-7 Acid Special

Additional fertilization notes

- Keep pH range from 5.5 to 6.5
- Additional fertilization is needed if heavy rains flush out fertilizer
- Once mums are rapidly growing rotate in 15-0-15 every third watering to control stretch
- Use 15-0-15 once buds appear
- Extreme heat will slow plant growth so you need to lower fertilization to match plant growth
- Controlled release fertilizers do work in combination with water soluble fertilizers

Table 1. Everris – Peters recommended fertilizers for garden mum production.

Water Type	Option1	Option 2
Type 1 - Low Alkalinity 0 to 60 ppm CaCO₃	Peters Excel 13-2-13 Plug & Bedding Plant Special	Peters Professional 17-3-17 Peat-Lite Neutral Cal-Mag
Type 2 60 to 150 ppm CaCO₃	Peters Excel 15-5-15 Hi-Start Cal-Mag Special	Peters Professional 17-3-17 Peat-Lite Neutral Cal-Mag
Types 1 & 2 0 to 150 ppm CaCO₃	Peters Excel 13-2-13 Plug & Bedding Plant Special	Peters Professional 17-3-17 Peat-Lite Neutral Cal-Mag
Type 3 150 to 200 ppm CaCO₃	Peters Professional 15-5-25 Peat-Lite Flowering Crop Special	Peters Professional 18-8-17 Peat-Lite High Mag Special
Type 4 – High Alkalinity 200 to 240+ ppm CaCO₃	Peters Professional 15-5-25 Peat-Lite Flowering Crop Special	Peters Professional 18-8-17 Peat-Lite High Mag Special
Types 3 & 4 150 to 240 ppm CaCO₃	Peters Professional 15-5-25 Peat-Lite Flowering Crop Special	Peters Professional 18-8-17 Peat-Lite High Mag Special
Constant Liquid Feed: 200-300 ppm Periodic Liquid Feed: 300-400 ppm		