

Fact Sheet for Texas A&M Floriculture Program

Common Name	chrysanthemum													
Botanical Name	<i>Dendranthema X grandiflorum</i>													
Origin	Hybrids from China													
Product sizes	Cut flower; 4 or 6-inch potted flowering plant; garden plant; plant 5 cuttings/6-inch pot, place plants at 45° angle outward													
Cultivars	1000's of cvs., 'Yellow Kodiak' (8 week/medium/disbud; 'Festive New Orleans' (8 week/tall/CBR)													
Propagation	Terminal stem cuttings; unrooted or rooted													
Cost/propagule	\$0.18/rooted cutting = \$0.90/6-inch pot													
Flowering control	SD for flowering; critical photoperiod is 12 hrs. or less; SD to FI is uniform but FI to FD varies; garden 6-8 wk; pot 8-11 wk.; cut 8-15 wk; Black cloth March 15 to Sept. 15													
Temperature	61°F NT from FI to VB then lower to 50-55°F until harvest; > 85°F causes flower delay													
Light	Growth and development are more rapid under high light													
Water	Well-drained substrate kept evenly moist													
Nutrition (know symptoms and treatment for ones underlined below)	Potted plants 250-400 ppm from rooting until flowers are in color													
<u>N</u>	P	K	Ca	Mg	S	<u>Fe</u>	Mn	Zn	Cu	B	Mo	Cl	Ni	
E.C.					pH 5.7-6.2 High pH causes Fe deficiency									

Height reduction	B-nine @ 2500 ppm 1X or more, Cycocel is not effective; treatment commences 2 weeks after pinch when shoots are 1.5-2 inches long; DROP
Spacing	6-inch pots on 12-inch centers
Pinching/disbud	Pinch leaving 6-8 nodes approximately 14 days after planting depending on season of year and tall, medium or short growth habit
Support	Cut flowers will need support but properly grown potted plants should not
Insects (be able to identify those listed)	aphid, caterpillar, thrips, leaf miner
Diseases (know symptoms and treatments for those listed)	Root and stem rots; Botrytis
Physiol. Disorders (know symptoms and treatments for those listed)	Crown buds – form under LD after a certain number of leaves have formed or when SD is followed by LD or high temp; vegetative shoots will form below
When to harvest (plant development stage)	33-50% of flowers are open, ¼ to 1/3 open
Improving postharvest quality and longevity	Reduce fertilizer for the last 1/3 production period; high light during last 3 weeks; lower temp 56-60°F for 2-4 weeks prior to harvest; lower NH ₄ ; eliminate fertilizer at disbud stage 3-4 weeks prior to market
Shipping requirements	50 fc light; well-watered; 35-40° F
Expected postharvest longevity	4 weeks
Market period	Year-round
Market price	\$4.50