Fact Sheet for Texas A&M Floriculture Program

Common Name	Snapdragon (cut)
Botanical Name	*Antirrhinum majus*
Origin	Progenitor from Mediterranean area
Product sizes	Cut flowers, garden plants, potted plants, hanging baskets, field-grown cut flowers
Cultivars	Upright to 72 inches or trailing; white, red, rose, pink, yellow, orange, bicolors; single, double, open-faced (butterfly); 4 flowering response groups: Group I (winter); Group II (late winter, early spring); Group III (spring); Group IV (summer)
Propagation	Seed, germination in 10 days at 64-68^{0}F under light; tissue culture; terminal stem cuttings
Cost/propagule	$.02 –.20 per plug
Flowering control	Facultative LD, juvenile plants with less than a specified leaf number; when mature enough to perceive LD, temperature influences rate of FI not FD
Temperature	Controls growth rate, warmer temperature = faster growth between 50 and 77^{0}F; usually grown at 50—52^{0}F NT; controls plants ability to absorb water; plants often wilt on bright sunny winter mornings when soil temperature is cool
Light	FI and FD delayed under low light; supplemental lighting benefits young plants, economical when density is high; 4 response groups, Winter=low light, SD, short juvenile phase
Water	Never overwater; relation between overwatering and *Pythium* root rot; ground beds or benches should be 6 inches or higher for adequate drainage
Nutrition (know symptoms and treatment for ones underlined below)	Nitrogen early for strong stems; low nutrient requirement comparatively; nitrate preferred to ammonium; may become deficient in boron

N	**P**	**K**	**Ca**	**Mg**	**S**	**Fe**	**Mn**	**Zn**	**Cu**	**B**	**Mo**	**Cl**	**Ni**

E.C. low	**pH**

Height reduction	None for cut flowers
Spacing	Winter 3X5-inch to 4X5-inch; summer 3X4-inch to 3X5-inch; closer spacing increases production
Pinching/disbud	Can be grown single stem or pinched; no disbudding required
Support	Two tiers of support for cut flower production; netting should have openings of 4X5, 6X6 or 6X8-inch
Insects (be able to identify those listed)	Aphids, fungus gnats, thrips, red spider mites, whiteflies, cyclamen mites
Diseases (know symptoms and treatments for those listed)	*Pythium*, Rust, *Botrytis*, powdery mildew, downy mildew, TSWV, INSV; sanitation, soil treatments, air circulation, humidity control, chemicals
Physiol. Disorders (know symptoms and treatments for those listed)	Excessive grassy growth can occur with improper cultivar selection and excessive N application
When to harvest (plant development stage)	1/3 florets open; seedling plugs can be stored at 36 to 39^{0}F with 250 fc fluorescent for 6 weeks
Improving postharvest quality and longevity	Ethylene causes floral abscission and senescence; treat with 1 hr pulse of STS at 70 ^{0}F; preservatives (8-HQC at 300 ppm and sucrose at 0.5-1.5%), B-nine reduces geotropism
Shipping requirements	Best shipped upright to prevent geotropism
Expected postharvest longevity	1 to 2 or more weeks
Market period	Year-round
Market price	12 stems/bunch