

Fruits and Vegetables *and Orchids*

- Apples—varieties
- #1 Red Delicious--20+ years
- Tomatoes—heirloom
- Fruit and Vegetables--Loss of taste
- Phalaenopsis--Loss of fragrance

Phalaenopsis Standard Doritaenopsis (Dtps) Doritis x Phalaenopsis	Phalaenopsis Species Primary Hybrids Novelty Phals (<i>violacea</i> crosses)
Leaves—long and narrow	Leaves—flat and round
Spikes—one or two tall	Spikes—several short
Flowers <ul style="list-style-type: none"> • Not fragrant • Large size and flat • Above the leaves • Tend not to re-flower from growing tip • Can spike from nodes • Many flowers at a time • No baby plants 	Flowers <ul style="list-style-type: none"> • Fragrant • Small size and cupped • In the leaves • Growing tip viable • Can re-flower yearly from growing tip • One or two flowers at a time • Can produce keikis

Standard Phals	Species Phals
<ul style="list-style-type: none"> • White (<i>amabilis/aphrodite</i>) • Pink/purple (<i>schilleriana/sanderiana</i>) • Once considered varieties, now 4 separate species • Solids and with markings • Brought into flowering by cooler day/night temperatures, not by day/night length • New trends—harlequins to picotees and color varieties <p>Phalaenopsis provides:</p> <ol style="list-style-type: none"> 1) Bloom winter/ spring 2) Flowers 2-4 inches/ many 3) Inflorescence <ol style="list-style-type: none"> a) 3-4 feet/ arching b) Simple or branched <p>Doritis provides:</p> <ol style="list-style-type: none"> 1) Bloom—summer 2) Inflorescence --stiffly erect 3) Flowers <ol style="list-style-type: none"> a) Dark, cerise color b) Provides bright red lip 	<ul style="list-style-type: none"> • Entire rainbow of colors • Albas, spots, markings, bars and blotches! • Brought into flowering by rain variation (drier period) • 76 species identified as of 2017 • 13 species used in hybridizing today (<i>amabilis</i> (white), <i>aphrodite</i> (white), <i>schilleriana</i> (pink), <i>stuartiana</i> (white/yellow), <i>equestris</i> (pink/purple), <i>luedemanniana</i>, <i>amboinensis</i>, <i>pulcherrima</i>, <i>gigantea</i>, <i>bellina/violacea</i>, <i>venosa</i>, <i>lindenii</i>) • Related to vandas • Center of distribution is Philippine Islands (15 species) • Borneo has 6 species, not found elsewhere • Phal <i>mannii</i> found Assam, India at higher elevations than other species • www.phals.net

- Alba (white) and semi-alba (yellows)
- Color variants of color flowers
- Not the lack of genes for color
- Have genes which suppress the colors

Peloric—mutations

- Regular Phals—3 sepals, 2 petals, 1 lip
- Peloric Phals—3 sepals, 3 petals, 3 lips
- Big-lip phals

Number of sets of chromosomes

- 2N diploid
- 3N triploid
- 4N tetraploid -- bigger plants, bigger blooms, vibrant colors, vigorous growth

Variety (var.) and Forma (fm.)

Variety (var.) is a taxonomic rank below that of species but above that of form

References:

Moth Orchids by Steven Frowine, 2008

Phalaenopsis Species and Hybrids, American Orchid Society Supplement 2017

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