



'Pumehana' and 'Andraecola-1' Anthuriums

A. R. Kuehnle¹, T. D. Amore¹, H. Kamemoto¹, J. T. Kunisaki¹, J. S. Lichty¹, and J. Y. Uchida²
Departments of ¹Tropical Plant and Soil Sciences and ²Plant and Environmental Protection Sciences

'Pumehana'

Anthurium 'Pumehana', UH1269, is a new dual-purpose red flower that is carried well above its dark green foliage. The anthurium is high yielding and has an outstanding vase life. Its vigorous growth with tolerance of bacterial blight makes it a good candidate for growing under saran cloth and for landscape use. Sturdy, straight stems make this flower well suited for flower arrangements.

'Pumehana' originated from a cross between a blight-resistant species, hybrid A494 (*Anthurium andraeanum* × *A. antioquiense*), and the blight-tolerant 'Kalapana' made by H. Kamemoto in response to the blight epidemic of the 1980s. This seedling was selected for observation and evaluation as a 'New Era'-type flower combining strong disease resistance with a heart-shaped spathe. Micropropagated plants were given to grower-cooperators for cut flower and potted plant evalu-

ation in 2000. Field performance from all test sites indicated good growth, high yield, and excellent bacterial disease tolerance. Mother flasks of propagative materials were early-released to the Hawaii Anthurium Industry Association in late 2003, and evaluation was completed in 2004.

The red, medium-size spathe of 'Pumehana' is attractively tapered with a ½" acumen (tip) and has a red-purple spadix. The flowers are carried on long, erect stems well above the dark green foliage. Plants are high-yielding with about seven flowers per stem per year and a long vase life of 51 days (includes 3 days packed) after simulated packing trials conducted with 148 flowers. Occasional notching of spathes does not appear problematic on larger plants. No phytotoxic reaction was observed in response to Malathion at the labeled rate or Avid 0.15EC and Dimethoate 400 at twice the labeled rates.



'Andraecola-1'

Anthurium 'Andraecola-1', UH1208, is a light red seedling selection from the cross *A. andraeanum* × *A. amnicola*. The flower has a small, light red spathe (4¼" long, 3½" wide), carried about 90° from the stem axis, and a reddish purple, upright spadix about 2" long. The plant has short internodes with good sucker production and produces exceptionally long and straight flower stems (to 27") with a superb yield potential of about nine flowers per plant per year. Flower vase life of 21 days at 70°F is excellent for an *A. amnicola* hybrid. It is resistant to anthracnose and appears moderately tolerant of bacterial blight. The dark green leaves are 12" long by 7" wide with a 14" petiole. The selection was named 'Andraecola-1' to acknowledge its species hybrid origin, and it is a sibling of 'Andraecola-2', UH1228. The latter was recalcitrant in tissue culture and thus was terminated.

'Andraecola-1' was first described in 1995 in *Horticulture Digest* no. 104 (UH-CTAHR). Early phases of tissue culture for this selection were very slow. Due to its unique species nature and good qualities for cut flower and landscape use, micropropagation was continued to obtain stock plants for release. These were provided to the Hawaii Anthurium Industry Association in late 2003. While the spathe color and shape are similar to other commercial varieties, the red coloration of 'Andraecola-1' is unusual among hybrids of the lavender *A. amnicola*.

Characteristics of 'Pumehana'

Spathe	
Size and shape	6" long, 4" wide, tapered with ½" acumen
Color	Red (RHSCC 45A)
Spadix	
Size and shape	3¼" long, ⅜" diameter; curved downward
Color	Red-purple (RHSCC 63A)
Flower stem	Long and erect, 29¼" long, ¼" wide
Yield	6.9 flowers per plant per year
Leaf	
Blade	14½" x 8½"
Petiole	21" x ¼"
Internode length	Moderate
Sucker production	Fair
Disease tolerance	Tolerant of bacterial blight; intermediate resistance to anthracnose (based on small sample size)
Keeping quality	
Fresh cut	37 days
Packed	51 days (including 3 days packed)
Strengths	Vigorous growth with tolerance of bacterial blight, thus a good multi-purpose candidate for growing under saran cloth and for landscape use
Weaknesses	Occasional lobe curling, some obake in spring, early pollen shed at one location when harvested late

Mention of a trademark, company, or proprietary name does not constitute an endorsement, guarantee, or warranty by the University of Hawaii Cooperative Extension Service or its employees and does not imply recommendation to the exclusion of other suitable products or companies.

Caution: Pesticide use is governed by state and federal regulations. Read the pesticide label to ensure that the intended use is included on it, and follow all label directions.