

Species Data Sheet

Paphiopedilum superbiens (Rchb.f.) Stein, Orchid.-Buch: 487 (1892)

[Paff-ee-oh-PEH-di-lum sue-PER-bi-enz]

Paphiopedilum superbiens has a history shrouded in the mists of time, by conflicting tales of collections. Initially described in 1855 by H. G. Reichenbach based on a plant said to be from Java. Originally known from two separate introductions each of a single plant. The first was a plant received by Messrs Rollison and said to be from Java or Assam (Undoubtedly from neither place), and the second was sent by T. Lobb to Messrs Veitch and Sons from Mt. Ophir, Sumatra. These were successfully propagated and represented the total gene pool of *Paph. superbiens* in cultivation until the recent the more recent introductions which have been from Sumatra. The variety former known as *Paph. curtisii* was introduced from Sumatra in 1883.

Paphiopedilum superbiens are moderately sized, the keeled leaf is up to 8 in. (20 cm) long by 3 in. (8 cm) wide pale green with differing patterns of dark green tessellations, tinged purple at the base on the lower side, occurring in north central Sumatra on wooded mountain slopes at 3000 – 4200 ft. (900 – 1300 m.) in relatively bright situations in deep humus overlying decomposed sandstone. The flowering season is April thru August.



Paphiopedilum superbiens
'Hilo Magic' AM/AOS
Jul 2016, NS 11.0 x 11.5 cm

The inflorescence is up to 12 in. (30 cm.) long, is deep purple, and covered with short hairs. There is one rather large flower per inflorescence. With petals that normally droop rather severely, the blossom usually is about half as wide as it is tall. The dorsal sepal is broadly heart shaped, erect, comes to an abruptly sharp point, and is more or less shortly ciliate. The dorsal sepal is white toward the margins, green in the center toward the base, and is marked with alternating green and purple longitudinal stripes, of which the green stripes are somewhat shorter. The synsepal is white with longitudinal green veins. The strap-shaped petals are somewhat sickle-shaped, curving downward along their length so that the sharply pointed tips may project downward or even curl inward. The whitish rose petals are marked with purple longitudinal veins, covered rather densely with blackish warts that are largest toward the upper margin, and are marginally hirsute with blackish hairs. The large, sack-like lip is deep purple, has infolded side-lobes that are pale purple and covered with deep purple warts. The staminode is horseshoe-shaped and has a distinct indentation on the upper margin with 3 small teeth on the lower edge.

Paphiopedilum superbiens has played an important role in the hybridization of the *Maudiae*-type hybrids.

Paphiopedilum superbiens does well in warm conditions with shaded to dappled light and water reduced somewhat in winter, but they should never be allowed to dry out completely.

Synonyms:

Paphiopedilum curtisii (Rchb.f.) Stein, Orchid.-Buch: 464 (1892).

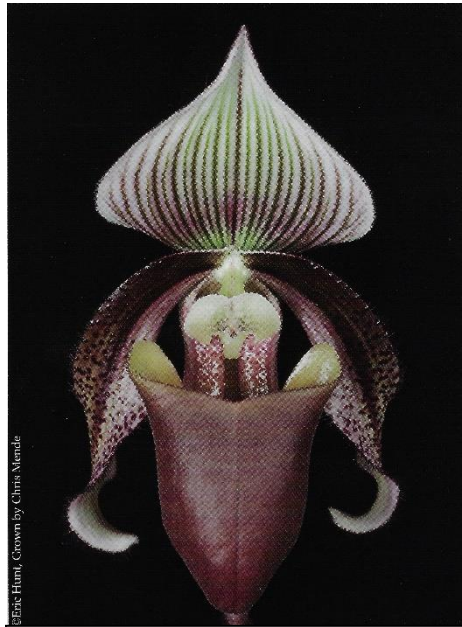
Paphiopedilum curtisii f. *sanderæ* (Curtis) O.Gruss & Perner, Orchidee (Hamburg) 3(7)E: 50 (2017)

Varieties / forms:

Kew does NOT recognize any varieties / forms of *Paphiopedilum superbiens* but most growers do.



Paph. superbiens var. curtisii



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Paph. superbiens (type)



Paph. superbiens var. sanderae

The varieties are:

Paphiopedilum superbiens – slender drooping and twisted petals and not as dark as ‘curtisii’.

Paphiopedilum superbiens var. *curtisii* – dominated by a large triangular pouch and shorter petals stippled with tiny warts. This variety is preferred in hybridization.

Comment: Possibly the reason that Kew does not recognize *curtisii* as a variety is that while looking over the AOS awards granted to *superbiens* / *curtisii* there clearly is a progression of forms between the type descriptions. To my untrained eye, the divide is not as clear cut as shown by the above pictures. As an example this variability, the five most recently awarded (AM/AOS) are shown in this report (one on prior page and four below).

Paphiopedilum superbiens f. *sanderae* – albino variant.



Paph. superbiens
'Perfect Balance' AM/AOS
Jul 2016, NS 8.5 x 12.5 cm



Paph. superbiens
'Howard' AM/AOS
Jul 2015, NS 9.0 x 11.0 cm



Paph. superbiens
'Arden' AM/AOS
Jun 2014, NS 10.0 x 10.6 cm



Paph. superbiens
'Fiddlefart' AM/AOS
Feb 2014, NS 8.7 x 11.2 cm

Awards:

The table below has the AOS awards for both *Paphiopedilum superbeins* and *curtisii*, four cultivars (all HCCs) are listed by AOS under both names.

Paph. curtisii	FCC	AM	HCC	AQ	JC	CCM	CCE	CHM	CBR	TOTAL
AOS		33	27		1	3		1	2	67
Year(s) Awarded		1970-2004	1974-2001		1977	1979-2000		1979	1965-1971	
Paph. superbeins										
AOS	1	27	33						1	62
Year(s) Awarded	1997	1984-2016	1980-2015						1969	
Combined										
AOS	1	60	56		1	3		1	3	125
Year(s) Awarded	1997	1970-2016	1974-2015		1977	1979-2000		1979	1965-1971	

This table clearly shows that after around 2004, AOS no longer recognized *Paph. curtisii* as a separate species.

Breeding Characteristics:

Only trait that I found mentioned on *Paphiopedilum superbeins* is that it is known for its tall stems and large flower size. Based on my observations of looking at many primary and second generation photos, I would also include small warts on petals, deep color enhancement especially dark pink/purple, large dark lip, and a flat dorsal sepal. There has presently been a total of 219 first generation crosses with four major lines, based on number of progeny.

	Registration decade															
	<1880	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000	2010	Total
Paph. superbeins																
Crosses Registered	1	17	137	98	22	25	39	60	102	70	446	509	1183	2094	2531	7334
Awards to Crosses Regtr	0	5	170	16	6	89	2	62	96	74	366	420	856	931	731	3824
Register F1 Crosses	1	17	83	42	5	4	1	1	0	1	8	15	12	15	14	219
Assoc. F1 Awards	1	17	117	8	2	42	2	0	0	0	11	4	6	4	5	219
Register F2 Crosses	0	0	53	52	12	8	4	23	15	4	8	47	80	47	56	409
Assoc. F2 Awards	0	0	40	8	4	45	0	52	0	2	3	117	69	16	7	363
Register F3 Crosses	0	0	1	4	5	6	11	6	32	10	17	23	209	152	93	569
Assoc. F3 Awards	0	0	0	0	0	0	0	3	13	8	22	33	431	91	39	640

Prior to discussing the above table, one needs to determine key *Paph. superbeins* progeny. The table below was generated based on the top 14 *Paph. superbeins* progeny in regards to F1 progeny (59 minimum) and top 18 in regards to awards (19, only AOS awards are in the table) plus associated *superbeins* parentage:

Kew Name	Parent 1	Parent 2	Year	Hybridizer	Progeny F1/Total	AOS Awards												
						FCC	AM	HCC	JC	AD	AQ	CCE	CCM	CHM	CBR	Total		
<i>Paphiopedilum superbeins</i>					219/7334	1	60	56	1						3	1	3	125
<i>Paphiopedilum Gowerianum</i>	<i>Paph. curtisii</i>	<i>Paph. lawrenceanum</i>	1893	Sanders [St. Albans]	65/2730	1	7	4										12
<i>Paphiopedilum Farnley</i>	<i>Paph. Gowerianum</i>	<i>Paph. Harri-Leeanum</i>	1945	Mansell & Hatcher	1/2058													0
<i>Paphiopedilum Farnmoore</i>	<i>Paph. Chardmoore</i>	<i>Paph. Farnley</i>	1946	L. Sherman Adams	79/2057		3											3
<i>Paphiopedilum Pacific Ocean</i>	<i>Paph. Farnmoore</i>	<i>Paph. Langley Pride</i>	1956	Vallemar Gardens	176/936		3	3										6
<i>Paphiopedilum Great Pacific</i>	<i>Paph. Pacific Ocean</i>	<i>Paph. Winston Churchill</i>	1975	R. McElderry	109/193	1	4	13										18
<i>Paphiopedilum Mooreheart</i>	<i>Paph. Greatheart</i>	<i>Paph. Farnmoore</i>	1957	E. W. McLellan	14/283			4										4
<i>Paphiopedilum Serape</i>	<i>Paph. Mooreheart</i>	<i>Paph. Garibaldi</i>	1979	Rod McLellan Co.	1/142													0
<i>Paphiopedilum Deadwood Trail</i>	<i>Paph. Burleigh Mohur</i>	<i>Paph. Serape</i>	1979	Rod McLellan Co.	5/141													0
<i>Paphiopedilum Anja</i>	<i>Paph. Tafel Rose</i>	<i>Paph. Deadwood Trail</i>	1982	F. Hank	29/137		1	1										2
<i>Paphiopedilum Lippewunder</i>	<i>Paph. Anja</i>	<i>Paph. Mem. Arthur Falk</i>	1989	F. Hank	92/98		3	4										7
<i>Paphiopedilum Milmoore</i>	<i>Paph. Mildred Hunter</i>	<i>Paph. Farnmoore</i>	1953	L. Sherman Adams	83/411		6	11				1						18
<i>Paphiopedilum Olympic Forest</i>	<i>Paph. Menthule</i>	<i>Paph. Milmoore</i>	1960	Beall	47/169		1	1										2
<i>Paphiopedilum Erie</i>	<i>Paph. Jim Dandy</i>	<i>Paph. Olympic Forest</i>	1974	W. W. Wilson	21/50		13	7				1						21
<i>Paphiopedilum Procrustes</i>	<i>Paph. Gowerianum</i>	<i>Paph. Maudiae</i>	1948	Armacost	26/332		3	4	1									8

Major Hybrids, Paph. Gowerianum/Paph. Farnmoore line:

Paphiopedilum Gowerianum (Paph. curtisii x Paph. lawrenceanum), 1893, Sanders [St. Albans], 65 F1 and 2730 total progeny, 12 AOS awards (1 FCC, 7 AMs, 4 HCCs). Major progeny: Paph. Farnley (Paph. Gowerianum x Paph. Harri-Leeanum), 1945, Mansell & Hatcher, 1 F1 and 2058 total progeny, no awards

Paphiopedilum Farnmoore (Paph. Chardmoore x Paph. Farnley), 1946, L. Sherman Adams, 79 F1 and 2057 total progeny, 3 AM/AOS awards, no photo. Major progeny: Paph. Pacific Ocean, see below; Paph. Mooreheart (Paph. Greatheart x Paph. Farnmoore), 1957, Rod McLellan Co., 14 F1 and 283 total progeny, 4 HCC/AOS awards; Paph. Milmoore, see below.

Paphiopedilum Pacific Ocean (Paph. Farnmoore x Paph. Langley Pride), 1956, Vallemar Gdns., 176 F1 and 936 total progeny, 6 AOS awards (3 AMs, 3 HCCs). Major progeny: Paph. Great Pacific, see below; Paph. Marty Starke (Paph. Mimi Starke x Paph. Pacific Ocean), Starke & Son, no progeny, 9 AOS awards (7 AMs, 2 HCCs).

Paphiopedilum Great Pacific (Paph. Pacific Ocean x Paph. Winston Churchill), 1975, R. McElderry, 109 F1 and 193 total progeny, 18 AOS awards (1 FCC, 4 AMs, 13 HCCs), no photos available. Major progeny: Paph. Kimberley Szabo (Paph. Great Pacific x Paph. Via Recompensa), 1993, B. Fraser, 22 F1 and 44 total progeny, 1 HCC/AOS award; Paph. Fiordland Sunset (Paph. Kimberley Szabo x Paph. Kilvanna), 2006, Woodstream, no progeny, 4 AOS awards (2 AMs, 2 HCCs).

Paphiopedilum Lippewunder (Paph. Anja x Paph. Memoria Arthur Falk), 1989, F. Hark, 92 F1 and 98 total progeny, 7 AOS awards (3 AMs, 4 HCCs). Major progeny: **Paph. Rita Chambers** (Paph. Nulight x Paph. Lippewunder), 2016, Arnold J. Klehm, no progeny, 7 AOS awards (6 AMs, 1 AQ).

Paphiopedilum Milmoore (Paph. Mildred Hunter x Paph. Farnmoore), 1953, L. Sherman Adams, 83 F1 and 411 total progeny, 18 AOS awards (6 AMs, 11 HCCs, 1 AQ). Major progeny: Paph. Erie (Paph. Jim Dandy x Paph. Olympic Forest), 1974, W. W. Wilson, 21 F1 and 50 total progeny, 21 AOS awards (13 AMs, 7 HCCs, 1 AQ); Paph. Olympic Forest (Paph. Menthoule x Paph. Milmoore), 1960, Beall, 47 F1 and 169 total progeny, 2 AOS awards (1 AM, 1 HCC).



Paph. Gowerianum
'Rob' FCC/AOS
Mar 1980, NS 12.6 cm



Paph. Pacific Ocean
'Los Osos' AM/AOS
Dec 1967



Paph. Great Pacific
'Hampshire' AM/AOS
Jan 2011, NS 15.5 x 13.0 cm



Paph. Lippewunder
'Joyce' AM/AOS
Dec 2013, NS 12.8 x 11.6 cm



Paph. Milmoore
'Bravo' AM/AOS
Dec 1977, NS 11.5 cm

Major Hybrids, Paph. Goultenianum line:

Paphiopedilum Goultenianum (Paph. callosum x Paph. curtisii), 1894, Goulten, 82 F1 and 1517 total progeny, 27 AOS awards (13 AMs, 14 HCCs). Major progeny: see below.

Paphiopedilum Voodoo Magic (Paph. Goultenianum x Paph. Vintner's Treasure), 1987, J. F. Hughes, 83 F1 and 1045 total progeny, 19 AOS awards (7 AMs, 12 HCCs). Major progeny: **Paph. Macabre**, see below; **Paph. Pulsar** (Paph. Red Sky x Paph. Voodoo Magic), 1995, T. Root, 64 F1 and 545 total progeny, 9 AOS awards (2 AMs, 7 HCCs); **Paph. Hsinying Web** (Paph. Pulsar x Paph. Cyberspace), 2001, Ching Hua, 50 F1 and 120 total progeny, 7 AM/AOS awards (2 AMs, 2 HCCs); **Paph. Pacific Magic**, see below.

Paphiopedilum Onyx (Paph. Goultenianum x Paph. Maudiae), 1945, Vacherot-Lecoufle, 59 F1 and 227 total progeny, 22 AOS awards (8 AMs, 11 HCCs, 2 JCs, 1 CCM). Major progeny: **Paph. Dark Spell** (Paph. Docteur Knock x Paph. Onyx), 1991, T. Root, 22 F1 and 42 total progeny, 17 AOS awards (11 AMs, 6 HCCs); **Paph. Luna Magic** (Paph. Luna Jewel x Paph. Raisin Magic), 2009, Lehua, 15 F1 and 22 total progeny, 2 AM/AOS awards; **Paph. Luther Slaughter** (Paph. Maudiae x Paph. Onyx), 1990, S. Slaughter, 7 F1 and 11 total progeny, 2 HCC/AOS awards.

Paphiopedilum Pacific Magic (Paph. Maudiae x Paph. Voodoo Magic), 1990, T. Root, 13 F1 and 25 total progeny, 25 AOS awards (1 FCC, 10 AMs, 14 HCCs). Major progeny: **Paph. Stardust Flight** (Paph. Pacific Magic x Paph. Tuxedo Junction), 1998, M. Pendleton, 4 F1 and 6 total progeny, 4 AOS awards (2 AMs, 2 HCCs).

Paphiopedilum Macabre (Paph. sukhakulii x Paph. Voodoo Magic), 1990, T. Root, 125 F1 and 423 total progeny, 6 AOS awards (3 AMs, 3 HCCs). Major progeny: Paph. Great Pacific, see below; Paph. Marty Starke (Paph. Mimi Starke x Paph. Pacific Ocean), Starke & Son, no progeny, 133 AOS awards (6 FCCs, 57 AMs, 68 HCCs, 2 AQs). Major progeny: **Paph. Wood Wonder** (Paph. Zellwood Station x Paph. Hsinying Maru), 2008, Orchid Zone, 26 F1 and 37 total progeny, 8 AOS awards (3 AMs, 5 HCCs); **Paph. Hawaiian Illusion** (Paph. Varuna x Paph. Grand Illusions), 2010, Lehua, 17 F1 progeny, 8 AOS awards (3 AMs, 5 HCCs); **Paph. Hsinying Maru** (Paph. Ruby Mist x Paph. Macabre), 2001, Ching Hua, 15 F1 and 60 total progeny, 9 AOS awards (6 AMs, 3 HCCs); **Paph. Odette's Charm** (Paph. Petula's Mystery x Paph. Odette's Spell), 2009, Lehua, 9 F1 and 11 total progeny, 10 AOS awards (1 FCC, 8 AMs, 1 HCC).



Paph. Goultenianum
'Mendenhall' AM/AOS
Oct 1997, NS 9.3 cm



Paph. Voodoo Magic
'Black knight' AM/AOS
Feb 1997, NS 11.0 x 9.0 cm



Paph. Onyx
'Krull-Smith' AM/AOS
Mar 1992, NS 10.6 x 10.8 cm



Paph. Pacific Magic
'Candor Nightshade' FCC/AOS
Apr 1996, NS 13.0 x 13.7 cm



Paph. Macabre
'Joan's Choice' FCC/AOS
May 2009, NS 14.7 x 10.7 cm

Major Hybrids, Paph. Cymatodes/Paph. Thisbe line:

Paphiopedilum Cymatodes (Paph. curtisii x Paph. superbians), 1893,
R. H. Measures, 13 F1 and 2866 total progeny, 3 AOS awards (1 AM, 2 HCCs).
Major progeny:

Paph. Thisbe (Paph. Cymatodes x Paph. fairrieanum), 1911, Armstrong/Brown,
7 F1 and 2846 total progeny, 1 HCC/AOS award, no photo available. Major
progeny:

Paphiopedilum Small World (Paph. Maori x Paph. Beaute), 1959, Ratcliffe,
144 F1 and 1043 total progeny, no AOS awards, no photo. Major progeny:
Paph. World Exploit (Paph. Rollright x Paph. Small World), 1968, Ratcliffe, 52 F1 and
237 total progeny, 3 AOS awards (1 AM, 2 HCCs); **Paph. Paph. World Venture**
(Paph. Small World x Paph. Sparsholt), 1968, Ratcliffe, 51 F1 and 314 total progeny,
4 AOS awards (2 AMs, 2 HCCs); **Paph. British Bulldog** (Paph. Small World x
Paph. Winston Churchill), 1979, Ratcliffe, 44 F1 and 114 total progeny, 3 AOS awards
(2 AMs, 1 HCC).

Paphiopedilum Valwin (Paph. Winston Churchill x Paph. Vallarrow), 1975,
J. Hanes, 109 F1 and 566 total progeny, 10 AOS awards (4 AMs, 6 HCCs).
Major progeny: **Paph. Hama Chilwin** (Paph. Valwin x Paph. Winston Churchill), 1983, Saeki Nurs., 43 F1 and 71 total
progeny, 4 AOS awards (1 AM, 3 HCCs); **Paph. Thunder World** (Paph. Western Thunder x Paph. World Famous),
F. Sugiyama, 30 F1 and 49 total progeny, no awards; **Paph. Memoria Joe Koss** (Paph. Valwin x Paph. Raven), 1994,
Arnold J. Klehm, 1 F1 progeny, 7 AOS awards (1 FCC, 2 AMs, 3 HCCs, 1 CCE).

Paphiopedilum Keyeshill (Paph. Carl Keyes x Paph. Winston Churchill), 1974, R. McElderry, 71 F1 and 375 total
progeny, 16 AOS awards (6 AMs, 10 HCCs). Major progeny: **Paph. Jenna Marie** (Paph. Bright Raven x
Paph. Keyeshill), 1986, Orchids Royale, 50 F1 and 163 total progeny, 3 AOS awards (1 AM, 2 HCCs); **Paph. California
Girl** (Paph. My Daughter x Paph. Jenna Marie), 1994, Orchids Royale, 33 F1 and 51 total progeny, 2 HCC/AOS awards;
Paph. Thunder Cat (Paph. Jenna Marie x Paph. pandemonium), 1997, Orchids Royale, 16 F1 and 21 total progeny,
2 HCC/AOS awards.

Paphiopedilum Beatrice Ernst (Paph. Evansrose x Paph. Winston Churchill), 1973, R. Ernst, 13 F1 and 22 total
progeny, 11 AOS awards (2 AMs, 9 HCCs). No major progeny.



Paph. Cymatodes
'Magnificum' AM/AOS
Mar 1988, NS 12.0 cm



Paph. World Exploit
'Marathon' AM/AOS
Dec 1972, NS 11.4 cm



Paph. Valwin
'Evergreen' AM/AOS
Jan 1981, NS 13.2 cm



Paph. Keyeshill
'Valley Forge' AM/AOS
Dec 1983, NS 12.8 cm



Paph. Beatrice Ernst
'Vivaceous' AM/AOS
Mar 1979, NS 11.2 cm

Recently Registered (2019) and Awarded Hybrids:

Cymatodes Line, rgtr 2019:



Paph. Dark Matter
'Night Howl' HCC/AOS
Jan 2019, NS 12.2 x 12.2 cm
(Paph. Enzan Rose Crown x
Paph. Yi-Ying Fire Fox), 10th gen.



Paph. Jersey Sunset
'Lucky Charm' AM/AOS
Dec 2018, NS 14.0 x 12.0 cm
(Paph. Hamana Samson x
Paph. Jenna Marie), 6th gen.



Paph. Walnut Valley Spots
'Max' AM/AOS
Jan 2019, NS 12.0 x 9.0 cm
(Paph. Walnut Valley Thunder x
Paph. World Plus), 8th gen.

Gowerianum Line:



Paph. Giant Wunder
'Memoria Patricia June' AM/AOS
Feb 2019, NS 12.4 x 11.5 cm
(Paph. Giantstone x
Paph. Lippewunder), 7th gen.

Goultenianum Line:



Paph. Fred's Magnificence
'Slipper Zone Red Rising' HCC/AOS
Jan 2019, NS 11.7 x 10.4 cm
(Paph. Friedrich Von Hayek x
Paph. Superb Fred), 2nd gen.



Paph. Fred's Majesty
'Slipper Zone Dorsal Splendor' HCC/AOS
Jan 2019, NS 10.2 x 9.4 cm
(Paph. Fred in Pink x
Paph. President Fred), 6th gen.

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Species Data Sheet

Paphiopedilum hookerae (Rchb.f.) Stein, Orchid.-Buch: 470 (1892)

[Paff-ee-oh-PEH-di-lum HOO-ka-ree]

Found in Borneo this moderately small sized, warm to hot growing species is found in deep shade at the base of weathered north facing

sandstone cliffs in deep leaf litter, at the base of trees or in rock crevasses with constant water seepage at elevations of 300 to 800 meters (1000 – 2600 ft). The fan consist of 5 to 6 leaves that range from 7.5 to 25 cm (3 to 10 in.) long by 0.5 to 1.5 cm (0.2 to 0.6 in.) wide and are tessellated dark green over a light green background, joined by heavy dark green parallel lines. This freely blooming species usually blooms in the spring and summer on a single flowered, erect, 8 to 20" [20 to 50 cm] long, terminal, purple, white pubescent inflorescence.

The flowers are distinctive with widened petals and flat unstripped dorsal sepal. The natural spread is of 6 to 10 cm (2 to 4 in.). The dorsal sepal is ovate with slightly reflexed margins basally, bright green with creamy white to yellow margins. The synsepal is pale yellow. The petals are spatulate and are held just below horizontal, may have a quarter turn twist; margins ciliate, undulate, purple, distally purple margins broaden to a rich purple color. Proximally and extending as a broad midpetal streak, the petal color is green, spotted and striped with dark maroon. The pouch is greenish brown distally, deepening to honey brown or mahogany toward the rim. The plants are similar to *Paph. bullenianum* and *Paph. sangii* sharing boldly marked leaves and a similar flower. It differs from the former in its almost circular, larger staminode, and from the latter in its acute dorsal sepal, petal shape and color, and its purplish brown rather than greenish cream staminode.

For many years, *Paph. hookerae* was considered to be one of the rarest and most prized of all *Paphiopedilum* species. Initially identified in 1863, imported in some quantity in the 1880s, following these importations considered extinct by most, specimen found among plants imported in 1972 from Sarawak, shortly afterwards discovered it in western Kalimantan.

Synonyms:

None recently

Varieties / forms:

Paph. hookerae var. *volonteanum*: Has proportionately narrower leaves, purple-spotted below, broader and more obtuse petals and the lip a little constricted below the mouth. The degree of purple mottling on the leaf undersides varies greatly. Occurs over a surprisingly wide altitudinal range. There are slight differences in the staminodes, but artificially raised plants do show some variation in the form of the staminode.



Paphiopedilum hookerae
'Fajen's Orchids' AM/AOS
Jul 2018, NS 9.8 x 7.0 cm



Paphiopedilum hookerae
'Fajen's Orchids NJL' AM/AOS
May 2019, NS 10.0 x 8.0 cm



Paph. hookerae var. *volonteanum*
'Spatburgunder' AM/AOS
May 2018, NS 9.8 x 6.5 cm

Awards:

Paphiopedilum hookerae has received 63 AOS awards, see table below for details.

	FCC	AM	HCC	AQ	JC	CCM	CCE	CHM	CBM	TOTAL
AOS		33	27		1	1			1	63
Year(s) Awarded		1978-2019	1976-2017		1985	2003			1977	

Breeding Characteristics:

Has been used with little success as a parent. The table below provides a summary of hybrid registration.

	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000	2010	Total
Reg	1	4	36	11	0	0	0	0	0	0	0	4	22	9	6	93
Assoc	0	0	23	0	0	0	0	0	0	0	0	6	11	1	1	42
F1	1	4	26	7	0	0	0	0	0	0	0	4	17	6	2	67
AA	1	4	18	0	0	0	0	0	0	0	0	6	10	0	0	39
F2	0	0	10	4	0	0	0	0	0	0	0	0	5	3	4	26
AA	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3

Of the 93 registered hybrids, 52 (a little of half, 55.9%) were registered prior to 1910. Then there was a timeframe of over 60 years that no hybrids were registered, supporting the comment above that many thought that the species was extinct. Then in 1980s, with the rediscovery of *Paph. hookerae*, registration of hybrids has continued, although on a limited basis. No breeding information available, based on pictures in OrchidWiz, flower shape appears to be dominate (but not the spatulated petals), color on petals distally is dominate, a petal twist does appear in some cultivars, long inflorescences.

Major Hybrids, Registered prior to 1910:

Paphiopedilum Marmorophyllum (*Paph. barbatum* x *Paph. hookerae*), 1876, Veitch, 6 F1 progeny, no awards, no photos available. No major progeny.

Paphiopedilum Xanthophyllum (*Paph. hookerae* x *Paph. mastersianum*), 1893, R. H. Measures, 3 F1 and 4 total progeny, 18 AOS awards (12 AMs, 6 HCCs). No major progeny



Major Hybrids, Registered after to 1980:

Paphiopedilum Shirley Amundson (Paph. acmodontum x Paph. hookerae), 1986, J. Hanes, 1 F1 progeny, 5 AOS awards (1 AM, 4 HCCs). No major progeny.

Paphiopedilum Erika Potent (Paph. urbanianum x Paph. hookerae), 1995, J. Schronen, no progeny, 4 AOS awards (1 AM, 2 HCCs, 1 CCM).

Paphiopedilum Memoria Gerald Lawless (Paph. sukhakulii x Paph. hookerae), 1999, G. Decker, no progeny, 3 HCC/AOS awards.



Paphiopedilum Shirley Amundson
'Solstice' AM/AOS
Jun 2005, NS 9.3 x 7.6 cm



Paphiopedilum Erika Potent
'Lehua's Tall Pink' AM/AOS
Mar 2017, NS 11.0 x 9.0 cm



Paph. Memoria Gerald Lawless
'Owen' HCC/AOS
Dec 2005, NS 12.0 x 8.5 cm

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Species Data Sheet

Paphiopedilum wardii Summerh., Gard. Chron., ser. 3, 92: 446 (1932)

[Paff-ee-oh-PEH-di-lum Wor-dee-eye]

Paphiopedilum wardii is a small sized, cool growing terrestrial, mottled leaf species found in southwestern China and northern Myanmar in deep leaf litter on cliff faces at elevations of 1200 to 1600 meters (4700 to 6300 ft.). It has 3 to 5 oblong-lanceolate, dark blue green mottled paler on top and mottled purple underneath leaves. Blooming in the mid-winter to early spring on an erect 20 cm (8 inches) inflorescence carrying a single 10 cm (4 inch) glossy flower. The dorsal sepal is ovate, acute, and measures 4-5 cm wide x 2-3 cm long (1.6 – 2.0 inches x 0.8 – 1.2 inches). It is white veined green. The synsepal is similar but smaller. Both are pubescent on their outer surfaces. The oblanceolate petals are held at a pendulous angle the tips gently uplifted, are 5.0 – 6.5 cm long x 1.5 – 2.0 cm wide (1.0 – 1.5 x 0.6 – 0.75 inches). The base color is pale green marked with darker green veins and heavily spotted with maroon. It is not unusual to have a rich maroon to chocolate brown overlay over most of the surface. Both the superior and inferior margins are hirsute, black. The lip is green overlaid mahogany and finely spotted brownish maroon.

Considered by some to be a natural hybrid between *P venustum* and *P sukhakulii*.

Synonyms:

Paphiopedilum brevilabium Z.J.Liu & J.Yong Zhang, Acta Phytotax. Sin. 39: 565 (2001).
Paphiopedilum burmanicum J.Yong Zhang & Z.J.Liu, Acta Phytotax. Sin. 39: 564 (2001).
Paphiopedilum microchilum Z.J.Liu & S.C.Chen, Acta Phytotax. Sin. 39: 156 (2001).
Paphiopedilum multifolium Z.J.Liu & J.Yong Zhang, Acta Bot. Yunnan. 24: 191 (2002).

Varieties / forms:

Although no varieties / forms are officially recognized, hybridizers generally consider three distinct forms, as shown below.



Paph. wardii f. atrobrunneum



Paph. wardii f. album



Paph. wardii

Due to similar color variation to the Maudiae breeding line, *Paph. wardii* has much potential in the Maudiae breeding line.



Paphiopedilum wardii
'Littlefrog Prince' FCC/AOS
Nov 2016, NS 14.1 x 9.0 cm

Awards:

Paphiopedilum wardii has received 92 awards as shown in the table below.

	FCC	AM	HCC	AQ	JC	CCM	CCE	CHM	CBR	TOTAL
AOS	1	38	36	2	2	9	1	2	1	92
Year(s) Awarded	2016	1982-2014	1977-2016	1999-2009	1972-2001	1984-2002	2011	1996-1997	1972	

Breeding Characteristics:

There has been limited breeding with Paphiopedilum wardii with 275 total progeny. As mentioned above interesting hybrids have been made in the Maudiae breeding line. Also, although Paph. wardii has flowers whose petals are speckled, in its hybrid progeny with vinicolors one often finds that the petals are so heavily pigmented that they appear to be a smooth black color.

An indication of interest in breeding with Paph. wardii is shown in the following table:

Paphiopedilum mossiae	Registration decade									
	1930	1940	1950	1960	1970	1980	1990	2000	2010	Total
Crosses Registered	0	1	0	0	3	4	52	64	151	275
Awards to Crosses Regtr	0	18	0	0	0	10	69	104	105	306
F1 Crosses Registered	0	1	0	0	3	4	33	27	20	88
F1 Associated Awards	0	18	0	0	0	10	66	27	7	128
F2 Crosses Registered	0	0	0	0	0	0	19	23	34	76
F2 Associated Awards	0	0	0	0	0	0	3	51	25	79
F3 Crosses Registered	0	0	0	0	0	0	0	14	39	53
F3 Associated Awards	0	0	0	0	0	0	0	26	33	59

Its interesting that after the discovery of Paph. wardii in the 1930's, only one cross was made until the 1970's. After a slow start, breeding with Paph. wardii really kicked off in the 1990's and has remained strong ever since. I was not able to find any information in regards to this lack of interest. To look into possible breeding lines I generated the following table of the top 5 crosses in regards to F1 progeny and the top 7 crosses with the most awards in OrchidWiz.

<u>Kew Name</u>	<u>Parent 1</u>	<u>Parent 2</u>	<u>Year</u>	<u>Hybridizer</u>	<u>F1/Total</u>	<u>FCC</u>	<u>AM</u>	<u>HCC</u>	<u>JC</u>	<u>AD</u>	<u>AQ</u>	<u>CCE</u>	<u>CCM</u>	<u>CHM</u>	<u>CBR</u>	<u>Total</u>
Paphiopedilum wardii					88/275	1	38	36	2	2	1	9	2	1		92
Paphiopedilum Petula	Paph. Maudiae	Paph. wardii	1943	McBean's	20/109	4	5				1	7				17
Paphiopedilum Petula's Mystery	Paph. Petula	Paph. Satchel Paige	2004	Lehua	11/72											0
Paphiopedilum Petula's Flame	Paph. Macabre	Paph. Petula's Mystery	2009	Lehua	10/12			2								2
Paphiopedilum Odette's Charm	Paph. Petula's Mystery	Paph. Odette's Spell	2009	Lehua	9/11	1	8	1								10
Paphiopedilum Varuna	Paph. venustum	Paph. wardii	1979	Stewart Inc.	4/25											0
Paphiopedilum Hawaiian Illusion	Paph. Varuna	Paph. Grand Illusions	2010	Lehua	17/17		3	5								8
Paphiopedilum Saiun	Paph. sukhakulii	Paph. wardii	1995	A. Mochizuki	11/14	9	6	1		1			1			18
Paphiopedilum Satchel Paige	Paph. wardii	Paph. Vintner's Treasure	1995	N. Mochizuki	7/83		12	6			1	3	1			23
Paphiopedilum Rory Jones	Paph. Satchel Paige	Paph. sukhakulii	2005	Krull-Smith	3/3		14	6	1			1	3			25
Paphiopedilum Scott Ware	Paph. Cecilia Devine	Paph. Satchel Paige	2005	Krull-Smith	1/1	2	6	3			1					12
Paphiopedilum Petula's Mystery		See Paph. Petula breeding line above														0
Paphiopedilum Ambiente	Paph. wardii	Paph. Tarentall	2009	Roellke Orchids	3/5											0

An interesting observation is that of the 88 primary hybrids made with Paph. wardii, the progeny of the five crosses captured in the above table account for over 50% of the total Paph. wardii progeny and over 40% of the awards to all Paph. progeny.

By far, the most used breeding line is the Paph. Petula / Paph. Petula's Mystery breeding line (50% Paph. wardii, 25% Maudiae, 25% Vintner's Treasure [Paph. callosum-50%, Paph. purpuratum-25%, Paph. barbatum - 12.5%, Paph. sukhakulii-12.5%]).

Major Hybrids, Paph. Petula/Paph. Petula Mystery Line:



Paph. Petula
'Orlando' AM/AOS
Feb 2010, NS 9.9 x 11.1 cm

Paphiopedilum Petula (Paph. Maudiae x Paph. wardii), 1943, McBean's, 20 F1 and 109 total progeny, 17 total AOS awards (4 AMs, 5 HCCs, 1 CCE, 7 CCMs). Major progeny, see below.

Paphiopedilum Petula's Mystery (Paph. Petula x Paph. Satchel Paige), 2004, Lehua, 11 F1 and 72 total progeny, no awards. Major progeny, see below.

Paphiopedilum Petula's Flame (Paph. Macabre x Paph. Petula's Mystery), 2009, Lehua, 10 F1 and 12 total progeny, 2 HCC/AOS awards. Major progeny, see below.

Paphiopedilum Odette's Charm (Paph. Petula's Mystery x Paph. Odette's Spell), 2009, Lehua, 9 F1 and 11 total progeny, 10 AOS awards (1 FCC, 8 AMs, 1 HCC).

Major progeny: **Paph. Delightfully Wood** (Paph. Wood Wonder x Paph. Odette's Charm), 2013, Lehua, 2 F1 progeny, 5 AOS awards (2 AMs, 3 HCCs). No major progeny

Paphiopedilum Petula's Magic (Paph. Space Magic x Paph. Petula's Mystery), 2009, Lehua, 9 F1 and 13 total progeny, 3 AOS awards (2 AMs, 1 HCC). No major progeny.

Paphiopedilum Petula's Sensation (Paph. Macabre Contrasts x Paph. Petula's Flame), 2015, Lehua, no progeny, 15 AOS awards (8 AMs, 6 HCCs, 1 AQ).



Paph. Petula's Mystery



Paph. Petula's Flame
'Lehua Contrasts' HCC/AOS
Feb 2011, NS 13.2 x 9.4 cm



Paph. Odette's Charm
'Hilltop's Sandy' FCC/AOS
Jan 2011, NS 11.2 x 9.1 cm



Paph. Petula's Magic
'Majestic Lehua' AM/AOS
Oct 2011, NS 11.5 x 9.5 cm



Paph. Petula's Sensation
'Laura' AM/AOS
Mar 2019, NS 12.9 x 8.7 cm

Major Hybrids, Other Paph. wardii Lines:



Paph. Saiun
'June Simpson' AM/AOS
Feb 2010, NS 13.7 x 8.8 cm

Paphiopedilum Hawaiian Illusion (Paph. Varuna x Paph. Grand Illusions), 2010, Lehua, 17 F1 progeny, 8 total AOS awards (3 AMs, 5 HCCs). No major progeny. NOTE: **Paph. Varuna** (Paph. venustum x Paph. wardii), 1976, Stewart Inc., 4 F1 and 25 total progeny, no awards.

Paphiopedilum Saiun (Paph. sukhakulii x Paph. wardii), 1995, A. Mochizuki, 11 F1 and 14 total progeny, 18 AOS awards (9 AMs, 6 HCCs, 1 AQ, 1 JC, 1 CCM)). No major progeny.

Paphiopedilum Satchel Paige (Paph. wardii x Paph. Vintner's Treasure), 1995, N. mochizuki, 7 F1 and 83 total progeny, 24 AOS awards (12 AMs, 7 HCCs, 1 AQ, 3 CCEs, 1 CCM). Major progeny, see above in **Paph. Petula's Mystery** line.

Paphiopedilum Ambiente (Paph. wardii x Paph. Tarentaal), 2009, Roellke Orchids, 3 F1 and 5 total progeny, No AOS awards. No major progeny.

Paphiopedilum Borobudur (Paph. javanicum x Paph. wardii), 1994, A. Mochizuki, 2 F1 progeny, 8 AOS awards (3 AMs, 3 HCCs, 2 CCMs). No major progeny.

Paphiopedilum Debbie Robinson (Paph. appletonianum x Paph. wardii), 1988, Stewart Orchids, 1 F1 progeny, 2 AM/AOS awards. No major progeny.



Paph. Hawaiian Illusion
'Black Canyon' AM/AOS
Feb 2015, NS 12.8 x 10.2 cm



Paph. Satchel Paige
'Sweet Ole Man' AM/AOS
Feb 2006, NS 11.9 x 10.0 cm



Paph. Ambiente
'Rotspiel' GM/DOG
Nov 2016, NS 12.0 x 11.0



Paph. Borobudur
'Loch Raven' AM/AOS
Jan 2011, NS 11.1 x 10.2 cm



Paph. Debbie Robinson
'Algonquin' AM/AOS
Jan 1997, NS 10.9 x 7.6 cm

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Award Descriptions (November Report)



Paphiopedilum Magic Pops – Quality Award Description

(Paph. Hsinying Makurow x Paph. Raisin Magic)

One striking flat flower on one inflorescence; dorsal sepal white, overlaid light maroon, veined dark maroon, basally veined dark green; synsepal white, overlaid light maroon, veined dark maroon; petals white, overlaid light maroon distally, overlaid green basally, lightly veined centrally rusty maroon, heavily spotted dark maroon except at the apex and basally, margins hirsute; pouch cream, overlaid dark maroon, interior finely spotted

maroon and lightly overlaid light maroon; staminode cream, centrally overlaid rusty maroon; substance firm; texture waxy.

Paphiopedilum Special Effects – Quality Award Description

(Paph. Voodoo Magic x Paph. Clarissa)

One flower on one inflorescence; dorsal sepal marginally recurved, white, overlaid maroon, veined dark maroon; synsepal cream overlaid light maroon, veined maroon; petals downswept apex upswept, light yellow-green, overlaid maroon distally, veined maroon basally, very dark maroon warts centrally concentrated along up margin, margins hirsute; pouch cream overlaid rusty maroon, interior lightly overlaid maroon; staminode cream overlaid very light maroon; substance firm; texture glossy.



Paphiopedilum Wossnerr Knock Knock – Cultural Award Description

(Paph. Shirley Amundson x Paph. Knock Knock)

Nine cupped flowers on nine inflorescences presented on a robust plant with blemish-free dark-green foliage in a 6 inch [15 cm] plastic pot; sepals cream, overlaid dark maroon, veined very dark maroon, margins recurved; petals chartreuse, distally overlaid maroon, veined dark maroon, dark maroon warts marginally, margins undulated and hirsute; pouch chartreuse overlaid maroon, interior spotted maroon; staminode cream, overlaid dark maroon centrally; substance firm; texture glossy.



Paphiopedilum Varuna – Quality Award Description

(Paph. venustum x Paph. wardii)

Two flat flowers on two inflorescences; sepals white, dark green veins; petals undulated, cream, distally overlaid maroon, centrally mahogany, basally overlaid green, veins brown, superior margin equally spaced dark maroon warts and hirsute; pouch green – yellow distally overlaid mahogany, brown veins; staminode cream, heavily spotted dark mahogany centrally; substance firm; texture matte.



Paphiopedilum Matthew Cuthbert – Quality Award Description

(Paph. wardii x Paph. Mauven)

One flower on an 15-cm inflorescence; sepals white, overlaid light lime green, green veins; petals yellow-green, lime green veins, overlaid dusty rose distally, spotted dark maroon, heavier spotted superior basally, slightly undulated, margins hirsute; pouch yellow green, overlaid dusty rose, interior spotted maroon; staminode yellow-green, dusty rose overlay; substance firm; texture glossy.

