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The Gesneriad Hybridizers Association

NEWSLETTER

Volume VIII, Issue 2, 1984

EDITORIAL COMMENTS

It is with regret that I accept the resignation of Anne Crowley as co-editor of CrossWords. For the past few years, Anne has been instrumental in the continued excellence of this newsletter. Her careful eye for spotting errors and her attention to detail will be sorely missed. Hopefully, she will now have more time to devote to her many other activities in the AGGS and the New England chapter.

In this issue I am pleased to present a comprehensive listing of Columnnea hybrids. Judy Becker is to be commended for the time and effort that went into compiling this list.

Response from members in the form of articles, questions and photographs has been good. But I will still need the continued support of everyone in order to make each issue the best it can be.

- Al Wojcik

INDEX

A Question for ``CrossWords'' Page 15
Margaret Waguespack

Columnnea Hybrids Page 4
Judy Becker

G.H.A. Membership Poll Page 3

G.H.A. Want List Page 14
Dave Zaitlin

New Canadian Cross Page 2
Georgie Bull

NEW CANADIAN CROSS

Georgie Bull, B.C., Canada



Sinningia 'Carefree's Regina' - Purported cross of a Sinningia concinna-like miniature (possibly S. 'Wood Nymph') with Sinningia canescens. The resulting hybrid, named S. 'Carefree's Regina,' shows a strong resemblance to S. 'Wood Nymph,' but has much larger and deeper colored blooms. The F2 generation produced plants much like 'Carefree's Regina,' although slightly lighter in color. Below, right, closeup of a bloom.



G.H.A. MEMBERSHIP POLL

Al Wojcik, Bloomingdale, Ill.

In the last issue of 1983, CW printed a membership poll in order to determine what the members of G.H.A. were growing, under what conditions, etc. The editors received 39 completed polls, and the following is a summary of those answers. Many thanks to those who took the time to fill them out. I will be using this information to determine the content of future issues of CW.

1. What are your growing conditions?

Indoors, under lights ... 34	Greenhouse 10
Outdoors, shade house/ porch/patio 10	Indoors, windows 9

2. Have you ever hybridized gesneriads?

Yes 29	No 10
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3. If yes, which gesneriads have you worked with?

Sinningia 17	Konleria 2
Saintpaulia 11	Gesneria 2
Columnea 10	Nautilocalyx 2
Episcia 6	Achimenes 1
Codonanthe 5	Smithiantha 1
Aeschynanthus 3	Boea 1
Streptocarpus 3	Rhytidophyllum 1
Nematanthus 3	Eucodonia 1
Gloxinia 2	

4. What would you like to see in future issues of 'CrossWords'?

Pedigrees of various plants, esp. Episcias ... Basic hybridizing information ... Continued excellence ... Would like Pat Worley to tell us what he's been up to ... A chart of the viability of the seeds of various genera and species ... More material on parentage of hybrids ... More stories on new introductions ... Updated chromosome counts ... Articles on what leading hybridizers are doing ... More info on dominant characteristics of various gesneriads ... Methods of growing more unusual or unknown species ... Information on stabilizing a selected hybrid to come true from seed ... More interviews with hybridizers ... A hybridizing course for beginners ... What are Mike Kartuz and Pat Worley working on? ... More about Episcia hybridizing ... Articles on the use of colchicine ... More discussion of Columnea hybridizing ... Excellent articles on new introductions, like the ones submitted by Frances Batcheller and Jane Crandall ... An updated Sinningia Register ... A listing of the contents of the back issues ...

COLUMNNEA HYBRIDS

Judy Becker, Salisbury, Ct.

A few words of explanation:

- Hans Wiehler's classification was used. Some of the plant material has not been described as Columnnea, and people should be aware that these intergeneric or inter-sectional crosses are sterile
- Plants appear in the list only if they have been used in crosses.
- Crosses are listed both ways. Cornell found that reciprocal crosses generally produced the same results.

Aladdin's Lamp (Cascadilla x erythrophaea)

- x gloriosa = Genie
- x hirta v. pilosissima = Firebird, Orange Sherbert, Rising Sun

allenii

- x crassifolia = Oneidan

argentea

- x hirsuta var. fawcettii = Glasnevin Prospect

arguta

- x Dragon Fire = Yellow Gold
- x gloriosa = Splendide
- x microphylla = Fire Dragon
- x nicaraguensis = Autumn Blaze, Autumn Dawn, Red Emperor
- x verecunda Florence Carrell = Campus Sunset
- x Yellow Dragon = Betty Stoehr, Butterfly, Dart, Early Bird, Joy

- x Trichantha mira = xColtrichantha Mountain Elf
- x T. Tigerpaws = xColtrichantha Phaser

Autumn Leaves (Pixie x erythrophaea)

- x Moonglow = Eureka, Starburst

xBanksii (schiedeana x oerstediana)

- x linearis = Lyndon Lyon, Milred

(xBanksii x magnifica)

- x linearis = Anna C.

Betty Stoehr (arguta x Yellow Dragon)

- x Dragon Fire = Red King
- x Oneidan = Gold Rush, Gold Wing, Miami, Orange Wing

billbergiana (percrassa)

- x Yellow Dragon = Pixie

bilabiata
x Trichantha tenensis = xColtrithantha Dark Skies

Bonfire (Fang x erythrophaea)
x Trichantha purpureovittata = xColtrichantha Golden Nugget,
xColtrichantha Orange Nugget

Brighter Dawn (nicaraguensis x Early Bird, previously listed in CW as
(nicaraguensis x Early Bird) x Constant Flame)
x Contant Flame = Calypso, Multiflora (Granger's
Bountiful)

Butterball (Yellow Dragon x Cornellian)
x erythrophaea = Nelly
x Twiggy = Yellow Hammer

Cardinal (Yellow Dragon x (C. xVilmoriniana x gloriosa)
x xVilmoriniana = Red Start

Cascadilla (Ithacan x Harvard Window)
x King Midas = Robin
x erythrophaea = Aladdin's Lamp

Cayugan (crassifolia x hirta)
x gloriosa = Constant Flame

Chanticleer (Yellow Dragon x scandens v. tulae rubra)
x erythrophaea = Boheme, Cho Cho San, Souer
Therese, Tosca, Traviata,
Turandot

Cherokee (Ramadan x Cornellian)
x erythrophaea = Tomahawk

Chocolate Soldier (Oneidan x Evlo)
x erythrophaea = Embers
x Twiggy = Great Horned, Horned

Constant Flame (Cayugan x gloriosa)
x Brighter Dawn = Calypso, Multiflora (Granger's
Bountiful)
x Mary Ann = Kaye

Cornellian (verecunda Florence Carrell x crassifolia)
x Ramadan = Cherokee
x Yellow Dragon = Butterball

crassifolia
x alleni = Oneidan
x hirta = Cayugan
x nicaraguensis = Harvard Window
x verecunda Florence Carrell = Cornellian
x zebrina Cerro Jefe = Giltedge
x Dalbergia perpulchra = xColbergaria Miami Noon

x Trichantha dissimilis	= xColtrithantha Miami Sunrise
x Trichantha moorei	= Elmiran
<u>Dart (Yellow Dragon x arguta)</u>	
x Trichantha minor (Columnea teuscheri)	= xColtrichantha Little Colonel, Pinocchio, Tigridia (Midget)
<u>Dennis Adams (urbanii x rutilans)</u>	
x erythrophaea	= Firecracker
<u>Dragon Fire (magnifica x gloriosa) x (magnifica x gloriosa)</u>	
x arguta	= Yellow Gold
x Betty Stoehr	= Red King
x Early Bird	= Fang, Mia
x Multiflora	= Waterfall
x nicaraquensis	= Brighter Dawn, Chippewa, Ontario
<u>(Early Bird x Othello)</u>	
x erythrophaea	= Campfire
<u>erythrophaea</u>	
x Butterball	= Nelly
x Chanticleer	= Boheme, Cho Cho San, Souer Therese, Tosca, Traviata, Turandot
x Cascadilla	= Aladdin's Lamp
x Cherokee	= Tomahawk
x Chocolate Soldier	= Embers
x Dennis Adams	= Firecracker
x (Early Bird x Othello)	= Campfire
x Fang	= Bonfire
x Gold Spice	= Cinnamon Toast
x Great Horned	= Moonglow
x hirta var. mortonii	= Woolly Bear
x Joy	= Mirage (somatic mutation)
x Magic Lantern	= Adark Horse
x Moonglow	= Inferno
x Multiflora	= Star Trek
x Pixie	= Autumn Leaves
x (rutilans x erythrophaea)	= Cannonball
x schiedana	= Sundowner
x Dalbergaria perpulchra	= xColbergaria Orange Fire
x Trichantha Tigerpaws	= xColtrichantha Wonderlust
x Dalbergaria polyantha	= xColbergaria Orange Max
<u>Evlo (gloriosa x nicaraquensis)</u>	
x Oneidan	= Chocolate Soldier
x Red King	= Red Ball
x Yellow Gold	= Flipper, Goldie, Key, Sun Glo
<u>Fang (Early Bird x Dragon Fire)</u>	
x erythrophaea	= Bonfire

fawcettii
x repens (jamaicensis) = Bill Saylor

flaccida
x Trichantha purpureovittata = xColtrichantha Scarlet O'Hara

Flipper (Evlo x Yellow Gold)
x Yellow Gold = Flash Fire, Twiggy

gallicauda
x nicaraguensis = Susan

glabra
x magnifica = Lemoinei
x schiedeana = xKewensis

gloriosa
x arguta = Splendide
x Cayugan = Constant Flame
x lepidocaula = Ithacan, Othello
x microphylla = Snake Charmer
x nicaraguensis = Evlo
x xVedrariensis = xVilmoriniana
x verecunda Florence Carrell = Orange Princess, Yellow Dragon
x Aladdin's Lamp = Genie

(gloriosa x magnifica)
x (gloriosa x magnifica) = Dragon Fire

(gloriosa x xVilmoriniana)
x Yellow Dragon = Cardinal
x Yellow Gold = Orange Fire

Gold Spice (Great Horned x Horned)
x erythrophaea = Cinnamon Toast

Granger's Bountiful (Constant Flame x Brighter Dawn) formerly Multiflora
x Moonglow = Galatic Orange, Madam Butterfly,
Shalimar, Top Brass

Great Horned (Twiggy x Chocolate Soldier)
x erythrophaea = Moonglow
x Horned = Goldfinch, Gold Spice, Yellow
Bird
x (Twiggy x Yellow Dancer) = Inca Gold

harrisii
x hispida = Glasnevin Promise

Harvard Window (crassifolia x nicaraguensis)
x Ithacan = Cascadilla

hirsuta var. fawcettii
x argentea = Glasnevin Prospect

hirta

- x crassifolia = Cayugan
- x linearis = Tiogan
- x nicaraguensis = Red Arrow
- x tulae Flava (scandens var. tulae) = Campus Gem
- x zebrina Cerro Jefe = Aflame
- x Trichantha brenneri = Feuerball

hirta var. mortonii

- x erythrophaea = Woolly Bear
- x Red Spur = Christmas Carol
- x Trichantha illepida = xColtrichantha Ottawa

hirta var. pilosissima

- x Aladdin's Lamp = Firebird, Orange Sherbert, Rising Sun
- x Moonglow = California Gold

hispidia

- x harrisii = Glasnevin Promise

Horned (Twiggy x Chocolate Soldier)

- x Great Horned = Goldfinch, Gold Spice, Yellow Bird
- x Sun Glo = Sunset

Ithacan (gloriosa x lepidocaula)

- x Harvard Window = Cascadilla
- x Joy = Red Spur
- x Yellow Dragon = Crimson Banner, Eagles, Golden Showers, King Midas, Orange Banner, Oriole, Scarlet Banner, Wonderland.

jamaicensis (see repens)

Joy (arguta x Yellow Dragon)

- x Ithacan = Red Spur
- x Trichantha moorei = xColtrichantha Fanfare
- x erythrophaea = Mirage (somatic mutation)

King Midas (Ithacan x Yellow Dragon)

- x Cascadilla = Robin

lepidocaula

- x gloriosa = Ithacan, Othello

linearis

- x xBanksii = Lyndon Lyon, Mildred
- x (xBanksii x magnifica) = Anna C.
- x hirta = Tiogan
- x nicaraguensis = Katsura
- x scandens var. tulae Flava = V. Covert
- x xVilmoriniana = Anna C.

x Yellow Dragon	= Flamingo, Mary Ann, Sea Gull, Sylvia
x <i>Trichantha moorei</i>	= x <i>Coltrichantha</i> Campus Queen
<u>Magic Lantern (Mary Ann x Robin)</u>	
x <i>erythrophaea</i>	= Adark Horse
<u>maculata Turrialba</u>	
x <i>Trichantha brenneri</i>	= x <i>Coltrichantha</i> Fireworks
x <i>Trichantha tenensis</i>	= x <i>Coltrichantha</i> Firetongue
<u>magnifica</u>	
x <i>glabra</i>	= Lemoinei
x <i>schiedeana</i>	= x <i>Vedrariensis</i>
<u>(magnifica x gloriosa)</u>	
x (magnifica x gloriosa)	= Dragon Fire
<u>Mary Ann (Yellow Dragon x linearis)</u>	
x Constant Flame	= Kaye
x <i>ramondii</i>	= Ramadan
x Robin	= Magic Lantern
<u>microphylla</u>	
x <i>arguta</i>	= Fire Dragon
x <i>gloriosa</i>	= Snake Charmer
x x <i>Vedrariensis</i>	= Stavanger
<u>Moonglow (Great Horned x erythrophaea)</u>	
x Autumn Leaves	= Eureka, Starburst
x <i>erythrophaea</i>	= Inferno
x Granger's Bountiful	= Galatic Orange, Madam Butterfly, Shalimar, Top Brass
x <i>hirta</i> v. <i>pilosissima</i>	= California Gold
<u>Multiflora (Granger's Bountiful) (Constant Flame x Brighter Dawn)</u>	
x Early Bird	= Waterfall
x <i>erythrophaea</i>	= Star Trek
<u>nicaraquensis</u>	
x <i>arguta</i>	= Autumn Blaze, Autumn Dawn, Red Emperor
x Early Bird	= Brighter Dawn, Chippewa, Ontario
x <i>crassifolia</i>	= Harvard Window
x <i>gloriosa</i>	= Evlo
x <i>hirta</i>	= Red Arrow
x <i>linearis</i>	= Katsura
x <i>scandens</i> var. <i>tulae</i> (Flava)	= Onondagan
x <i>Trichantha moorei</i>	= x <i>Coltrichantha</i> Indian Summer
x <i>gallicauda</i>	= Susan
<u>oerstediana</u>	
x <i>schiedeana</i>	= x <i>Banksii</i>

<u>Oneidan (crassifolia x allenii)</u>	
x Betty Stoehr	= Gold Rush, Goldwing, Miami, Orange Wing
x Evlo	= Chocolate Soldier
x zebrina	= Christy, Malvina, Paggiacci
<u>Orange Fire (xVilmoriniana x gloriosa)</u>	
x Yellow Gold	= Yellow Dancer
<u>percrassa (see billbergiana)</u>	
<u>Pixie (Yellow Dragon x billbergiana)</u>	
x erythrophaea	= Autumn Leaves
x (Yellow Dancer x Flamingo)	= El Dorado
<u>purpusii</u>	
x zebrina Cerro Jefe	= Red Zebra
x Trichantha purpureovittata	= xColtrichantha Boomerang
<u>querceti</u>	
x scandens var. tulae (Flava)	= Orange Beauty
x Dalbergaria perpulchra	= xColbergaria Sarasota Sunset
<u>Ramadan (Mary Ann x raymondii)</u>	
x Cornellian	= Cherokee
<u>raymondii</u>	
x Mary Ann	= Ramadan
<u>Red King (Betty Stoehr x Dragon Fire)</u>	
x Evlo	= Red Ball
<u>Red Spur (Ithacan x Joy)</u>	
x hirta var. mortonii	= Christmas Carol
<u>repens (jamaicensis)</u>	
x fawcettii	= Bill Saylor
<u>Robin (King Midas x Cascadilla)</u>	
x Mary Ann	= Magic Lantern
x Trichantha minor (Columnea teuscheri)	= xColtrichantha Elfin
<u>rutilans</u>	
x urbanii	= Dennis Adams, Red Stripe
<u>(rutilans x erythrophaea)</u>	
x erythrophaea	= Cannonball
<u>schiedeana</u>	
x erythrophaea	= Sundowner
x glabra	= xKewensis
x magnifica	= xVedrariensis
x oerstediana	= xBanksii

scandens var. tulae (Flava)

x hirta = Campus Gem
x linearis = V. Covert
x nicaraguensis = Onondagan
x querceti = Orange Beauty

scandans var. tulae Rubra

x Yellow Dragon = Chanticleer

Stavanger (microphylla x xVedrariensis)

x xVedrariensis = Capella, Vega

Sun Glo (Evlo x Yellow Gold)

x Horned = Sunset

Twiggy (Flipper x Yellow Gold)

x Butterball = Yellow Hammer
x Chocolate Soldier = Great Horned, Horned

(Twiggy x Yellow Dancer)

x Great Horned = Inca Gold

urbani

x rutilans = Dennis Adams, Red Stripe

xVedrariensis (schiedana x magnifica)

x gloriosa = xVilmoriniana
x microphylla = Stavanger
x Stavanger = Capella, Vega

verecunda Florence Carrell

x arguta = Campus Sunset
x crassifolia = Cornellian
x gloriosa = Orange Princess, Yellow Dragon
x Trichantha illepidata = xColtrichantha Aurora
x Trichantha moorei = xColtrichantha Canary

xVilmoriniana (xVedrariensis x gloriosa)

x Cardinal = Red Start
x linearis = Anna C.

(xVilmoriniana x gloriosa)

x Yellow Dragon = Cardinal
x Yellow Gold = Orange Fire

Yellow Dancer (Orange Fire x Yellow Gold)

x Yellow Dragon = Alpha
x Trichantha minor = xColtrichantha Sunny
(Columnea teuscheri)

(Yellow Dancer x Flamingo)

x Pixie = El Dorado

(Yellow Dancer x Twiggy)

x Great Horned

Yellow Dragon (verecunda x gloriosa)

x arguta

x Cornellian

x Ithacan

x linearis

x scandens var. tulae (Rubra)

x (xVilmoriniana x gloriosa)

x billbergiana (percrassa)

= Inca Gold

= Betty Stoehr, Butterfly, Dart,
Early Bird, Joy

= Butterball

= Crimson Banner, Eagles, Golden
Showers, King Midas, Oriole,
Orange Banner, Scarlet Banner,
Wonderland

= Flamingo, Mary Ann, Sea Gull,
Sylvia

= Chanticleer

= Cardinal

= Pixie

Yellow Gold (arguta x Dragon Fire)

x Dragon Fire

x Evlo

x Flipper

x Orange Fire

x (xVilmoriniana x gloriosa)

= Orange Zing, Scarlet Touch,
Sundance, Witchcraft

= Flipper, Goldie, Kay, Sun Glo

= Flash Fire, Twiggy

= Yellow Dancer

= Orange Fire

zebrina

x crassifolia

x hirta

x Oneidan

x purpusii

= Giltedge

= Aflame

= Christy, Malvina, Pagliacci

= Red Zebra

Dalbergaria aureonitens (Columnnea affinis)

x Trichantha sanguinolenta

= xDaltrichantha Campus Favorite

Dalbergaria cruenta

x polyantha

x Trichantha Tigerpaws

= Anew Leaf

= xDaltrichantha Columbia

Dalbergaria perpulchra

x Columnnea crassifolia

x Columnnea erythrophaea

x Columnnea querceti

= xColbergaria Miami Noon

= xColbergaria Orange Fire

= xColbergaria Sarasota Sunset

Dalbergaria polyantha

x Dalbergaria vittata

x Trichantha sanguinolenta

Feather Ball

x Columnnea erythrophaea

x cruenta

x Trichantha sanguinolenta

= Serria

= xDaltrichantha Domination

= xColbergaria Orange Max

= Anew Leaf

= Daltrichantha Campus Favorite

Dalbergaria vittata

x polyantha = Serria

Trichantha brenneri

x Columnnea hirta = xColtrichantha Feuerball
x Columnnea maculata Turrialba = xColtrichantha Fireworks
x tenensis = Tiger Paws
x Dalbergaria sanguinea = xDaltrichantha Golden Bea

Trichantha dissimilis

x Columnnea crassifolia = xColtrichantha Miami Sunrise

Trichantha filifera

x pulchra = Cleo Kohm

Trichantha illepidia

x Columnnea hirta var. mortonii = xColtrichantha Ottawa
x Columnnea verecunda Florence Carrell = xColtrichantha Aurora

Trichantha mira

x Columnnea arguta = xColtrichantha Mountain Elf

Trichantha minor (Columnnea teuscheri)

x Columnnea Dart = xColtrichantha Little Colonel,
Pinocchio, Tigridia (Midget)
x Columnnea Robin = xColtrichantha Robin
x Columnnea Yellow Dancer = xColtrichantha Sunny

Trichantha moorei

x Columnnea crassifolia = xColtrichantha Elmiran
x Columnnea Joy = xColtrichantha Fanfare
x Columnnea linearis = xColtrichantha Campus Queen
x Columnnea verecunda Florence Carrell = xColtrichantha Canary
x columnnea nicaraguensis = xColtrichantha Indian Summer

Dalbergaria sanguinea

x Trichantha brenneri = xDaltrichantha Golden Bea

Trichantha pulchra

x Trichantha filifera = Cleo Kohm

Trichantha purpureovittata

x sanguinolenta = Tigertails
x Columnnea flaccida = xColtrichantha Scarlet O'Hara
x Columnnea purpusii = xColtrichantha Boomerang

Trichantha sanguinolenta

x purpureovittata = Tigertails
x Dalbergaria polyantha = xDaltrichantha Domination
x Dalbergaria aureonitens (affinis) = xDaltrichantha Campus
Favorite

Trichantha Tigerpaws (brenneri x tenensis)

x Columnnea erythrophaea = xColtrichantha Wonderlust
x Dalbergaria cruenta = xDaltrichantha Columbia
x Columnnea arguta = xColtrichantha Phaser

Trichantha tenensis

x brenneri = Tigerpaws
x Columnnea bilabiata = xColtrichantha Dark Skies
x Columnnea maculata Turrialba = xColtrichantha Firetongue

Trichantha purpureovittata

x Columnnea Bonfire = xColtrichantha Golden Nugget,
xColtrichantha Orange Nugget

G.H.A. WANT LIST

Dave Zaitlin, Davis, Calif.

Leong Tuck-Lock in Malaysia has sent a request for seed of Episcia lilacina and its varieties, as well as seed from any species and hybrids of Kohleria and Nematanthus. Gesneriads are difficult to find in Malaysia, so let's see if we can help him out. His address is: 24 Jalan Janore, Canning Garden Estate, IPOH, Perak, West Malaysia.

Not much new has happened here in the world of Sinningias, or any other gesneriads for that matter. A few seedlings are coming along, but with our relatively lightless winter, it is only now that the plants are responding. At present I am in the midst of completing my Ph.D., so my wife and I will be moving from Davis in the next couple months. At least I sincerely hope it is that soon! I have been drying off many of my Sinningias in order that I may send the tubers to my mother, who has a large light garden and a greenhouse. I figure that this is better for them than being in an overheated car during a prolonged cross-country trip.

One thing that I am looking forward to is finally being able to do some real plant breeding with the Sinningias. I think that I will take advantage of the facilities at my parents' home, since we will be living in the same town in upstate New York. I would like to try to breed true lines of hybrid diploid Sinningias. If my memory and scant records are correct, I have been indiscriminately crossing the various Sinningia species and hybrids for eight years. It is about time some of my beautiful plants were released for all to grow.

From the sound of things in Leong's letter, it seems that he has great success with many gesneriads, notably the Episcias. He will have hybrid Episcia seed available in October of this year for those who would like it. I am envious of those who live in the warm tropics. There must be nothing they cannot grow! Until next time ...

A QUESTION FOR CROSSWORDS

Margaret Waquespack, Harahan, La.

Has any hybridizing been done with Boea species? I am growing B. hemslyana, B. hygroskopica, and B. lawesii. The plants of B. lawesii were grown from seeds I brought back from Papua, New Guinea last fall.

Is B. hygrometrica (hope I got that right) being grown in this country? I understand that there was limited distribution of seed several years ago.

There are supposed to be Boea species with white and with pink flowers. Is there any way we could contact botanical gardens or individuals in Asian countries in order to obtain seeds of these plants?

I contacted the library at the Chicago Botanic Gardens, and they were not able to locate any Asian gardens that work with gesneriads. Perhaps one of our foreign members can help with these questions?

- Al Wojcik

BACK ISSUES

Back issues of ``CrossWords'' may be obtained from
Zelda Mines, 2206 East 66th St., Brooklyn, New York 11234.

Volume I (1977), 4 issues	Volume IV (1980), 4 issues
Volume II (1978), 4 issues	Volume V (1981), 4 issues
Volume III (1979), 4 issues	Volume VI (1982), 3 issues
Volume VII (1983), 3 issues	

All Back Issues are \$5.00 Per Volume

Individual issues of the current volume
may be obtained for \$1.50 each.

PLEASE MAKE CHECKS PAYABLE TO G.H.A.

CrossWords is published three times yearly by the Gesneriad Hybridizers Association, a non-profit organization established to facilitate the sharing of information about the hybridizing of gesneriads and to further the appreciation of the results of that hybridizing. Subscription is by membership in the G.H.A. Membership fees are \$5.00 per year and applications, along with checks, should be sent to Meg Stephenson at the address below.

Editorial correspondence may be sent to the editor. Editorial deadlines are February 1, June 1 and October 1 for publication two months later. All editorial content is copyrighted by the G.H.A.

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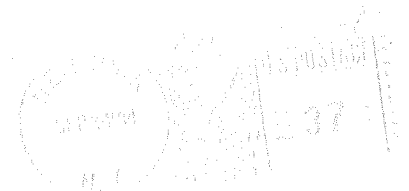
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