



Hunt Institute for Botanical Documentation
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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

ans 6/7/62

6/2/62

Dear Mr. Morrison,

I presume you receive the Monthly News Letter of the Louisiana Society for Horticultural Research, and note in the June 1962 issue just at hand the account of their new Amaryllis breeding guide now under plan, for which an anonymous donor has kicked in with \$2,500! Probably our friend Mr. Stark again! This will be a well illustrated work and will bring up to date and summarize and particularize the LSHR introductions and breeding work!

Watch that bulb of the Amaryllis evansiae X A. aglaiae cross! - both yellows, at least as yellow as we have in the Amaryllis! I have one of these!

Thanks very much for the seed of the Zephyranthes (?) "bucatanua" N.S. seed, it has been planted and we will see. Mostly over the lower South you will find Cooperias or Z. treatiae as roadside fill bulbs. They haul this fill a long way, or dump it as ballast or something.

Our rainy season has been on for several days thankfully, and things are growing like whizz! I guess it is the nitrogen in the air after the thunderstorms which makes things grow like this and the Zeph. Coops and Habranthus all bust into flower at once. Mulford Foster told me tonight he must have 1,000 Habranthus robustus in bloom at his place today.

I have been sweating it out the past four weeks getting stuff planted that had to be in by the time the rains came, or ought to be!

Now everything is planted but Kaempferia pulchra, K. galanga, K. angustifolia, K. elegans, K. gilbertii, and my large stock of ~~Yucca~~ Caladium argyrites! largest in the USA I think, maybe the only one! This was a famous house and greenhouse plant back in the middle 1800's, but now the florists have forgotten about it, although young and brilliant Dr. Bunting of the Bailey Hort., writes that a couple years ago he was right in the native habitat area of this bulb, on the middle Amazon country. Its bloom is unrecorded in horticulture. If we can make it bloom and cross it with the arrow & lance or the large Caladium, hot diggerty! what will we have then! Dr. B. thinks it can be done with the new ripening chemicals or something. I am sending him ten. You want a few? (gratis)

I am sure Prof. Nelson would give you a good knockdown to Mr. Stark if he wasn't afraid of losing his pigeon to you! (confidential). He is a man the like of whom we don't have many left today in America. They have all kinds in Texas.

Remember that fill dirt at Bucatanua might have come from 50 or 500 miles away! The fill for our freeway coming through Orlando and Winter Park on the way to Daytona Beach these days comes from 50 miles back in Sumter county or so.

I wish I had had some botany and horticulture in College, but I had not come to Florida then! However, I took classes under four of the best language profs in their day at Cambridge so I cannot complain. Lamman, Ford, Grandgont, and Jewett! Jewett was the professor of Semitics, there were three taking Arabic then! Recently the asst. professor of Arabic wrote me they have 35 Arabic majors under the new emphasis on certain languages for defense purposes! Interestingly enough, Foster is as proud as any alumnus could be that he is a grad of solely the U. of Hard Knocks! He has since lectured to college audiences! - int that something! Wish you could horse him into doing a manual of Cultivated Bromeliads to be published by the NHM or the ABS???? He has had an offer from Chronica Botanica, but I think that has faded out?? There is a new German book on Bromeliaceae, very large, many pictures etc. You should have a review copy. Mentions Foster 14 times.. he counted the mentions! There is also a new English "Collins Book of Bulbs" by your confrere Pat Syngo, the editor of the RHS Journal, reviewed in recent issue of the JRHS, and I bought copy from England and IT STINKS! Absolutely behind the times, chapter after chapter could have been written in 1885... no changes no modern treatment, but some dam fine pictures many in color, with a few exceptions as to fine.

It mentions Traub's Amaryllis book in the bibliography, then

over

complotely disregards all material and references to culture, species, nomenclature since 1930 in most cases! As the Germans say-- strictly aus dem vorigem Jahrhundert! Of course Synge may be hep to the Narcissus and Lilies, but when it comes to the Amaryllids and some others he is weak, brother!

You would be fascinated by Oviedo's "Sumario Historia," a brief text he wrote for Charles the Fifth in 1525 back in Spain about the natural history of the West India and the Central American area. It waited until last year for an American translation in toto, by Prof. Stoudemire of the U. of N.C. Think I will send you a copy. I am going to reprint his text on the pineapple that Oviedo wrote for this book. What he wrote about the pineapple in his larger work of 1535, Historia General, is utterly fantastic..he was the first great "Promeliad enthusiast! The Huntington Library has his original handwritten text of this as done for a revised edition in the mid-1550's. Clear as a bell. I can read it and translate it myself. Or would you like to translate this last for me some time? Give you full credit when published! There is no pen of praise to the pineapple ever published afterward to match it! Never been translated in English as yet either. Stoudemire may do this larger Historia in time.

I should write a book about Oviedo. When you read him, you see how the conquest succeeded. He was the polished, urbane, colonial administrator, honest, reliable, a bit boring, stuffy at times, but lover of natural history, minorology, women and lots of other things. No rake he, but the kind of firm foundation who established the crown's sovereignty on an even solid keep. It explains the initial expansion to me as no other author. He loved to write, and moralize and polemicize about everything as he went along. Great Rival of Bishop Las Casas.

I guess if you as a man of advanced American culture have heard not much of Oviedo, the guy is worth a book in my book! I too am music minded, cherously was director and public relations for the Central Florida Symphony orchestra back in 1937-42 when our annual budget was \$12,000! Now it is \$150,000 a year under ~~xxxxxxx~~ conductor Henry Mazer one of the most brilliant of his kind, among the youngsters, a protege of Fritz Reiner. He is sharp and hot. Do you do Palestrina or Hugo Wolf?? You must be of the best canto school??

Yours sincerely,

Wyndham Hayward

Wyndham Hayward
Lakemont Gardens
915 South Lakemont Ave.
Winter Park, Fla., U. S. A.

Ans
6/7/62

Mr. B. Y. Morrison,
Route 1, Box 24,
Pass Christian, Miss.
Dear Mr. Morrison,

5/4/62

As one who was raised and "educated" in the North, although I have lived in Florida 35 plus one or two years, or rather just 35 years this month! when I look back, it is time the South came to its just merits in the matter of Southern awards for distinguished service and careers in Horticulture. I would never feel any compunction about that when the award is deserved, as it certainly is, in F's case! I hope this will be only one of many he gets. Somebody has to break the ice.

Curious that you should have so well versed yourself in Spanish. It was the neglected sister of the modern languages at Brown Univ. when I was an undergraduate, so maybe that was why I had more of the sympathy for it. I read it very well, if I do say so. I am translating some of what the famous contemporary of Columbus, the naturalist, Oviedo, wrote about the first celebrated Bromeliad, the Pineapple, now, for an article in the Bromeliad Society Bulletin. Oviedo was a character you would have liked to know. You may know ~~his~~ his interesting personality, career and ~~history~~ "History". This last has never been translated and contains a whole chapter on the Pinal! Written in 1535. I found the original script for Oviedo's revised edition in a ms at the Huntington Library, and had it photostated, but it turns out to be the same as what the Marquis Del Rio used in ~~1825~~ 1850 for his famous four-volume edition of the Oviedo History. Prof. Sturdevant of the U. of N.C. has just published Oviedo's smaller account of the Pineapple which he first published back in Spain in 1525! This was in the condensed "Natural History of the West Indies". Not too interesting an affair in all its parts, but curious and very reliable. Oviedo was reliable to the core, sometimes too dully so. But in him one can see the power of the King and throne.. an official he could appoint to the gold smelters in Hispaniola and Darien who could be doubted on as an honest man, amid all those corrupt conquistadors. I am going to write him up some time. In fact, I think a summary of his Natural History as affecting the plants he first reported on would make a good article for the NHM some time I feel sure. When I get around to it I hope you are still in the editor's chair!

Historia Sumaria

Bye the bye, I forgot to mention my pleasure at the award of the Citation to Sam Caldwell for his popplargarden writings. I am sure you don't have a bit of influence with the awards committee.

I hope we can grow these new Caldwell Lycoris hybrids to multiply them so they will be garden common-places by the time a few more years come around. Curious how these Lycoris do so well with you there, while we here can bloom some of them only with difficulty and highest culture, while old L. aurea blooms and grows almost like a weed once it settles down! I think I sold or traded Korsakoff a Curcuma roscoeana a few years ago, and he writes he has about 13 plants of it now! It grows better for others than for me. I bought 10 more from VT this year at \$1.25 apiece I was so short of stock. Traded a lady out of five more.

Curious--Herbertia pulchella was only a senior or major version of H. corrulata, the La. & Texas little irid with the Tigridia like blue fl. Very pretty, but nothing to shout about. I think Bastyllis purpurea is a prettier thing, but harder to grow with me. I have lots of H. corrulata now, several dozens and only a few small Bastyllis now. I can spare you a lot of seed of Herbertia cpreulea or some corms if you wish gratis. It should thrive, does for me in pots and flats, grows all winter and spring, drying off now.

I believe you could pay your taxes if this is any problem, with surplus roots of Curcuma roscoeana in time... I have trouble enough paying the taxes on my place here nowadays they are raising them so fast... OVER

Where *Herbertia coerulea* is a rather frail, delicate plant, *Herbertia pulchella* is rather husky, slightly larger, more vigorous. Flower quite similar, some larger.

In West Florida they have a lot of *Zephyranthes treatiae*, which is often found over ~~the~~ roadways in fill dirt alongside, so you may have that! Maybe they got the fill in West Florida. The foliage is slender and glaucous like *Z. citrina* somewhat in form. Flower a white cup, quite attractive. Does not split readily in my experience and I have had it rather difficult to maintain, although I do grow it in flats and pots and had a fair bloom this spring. Odd thing is that it is dormant in summer, grows its foliage in winter and spring, blooms in early spring here. Range from Sarasota to Quincy, Fla. I believe.

What color or form is your roadside wildling?

I have written a piece for *Foster and the Bromeliad Society* bulletin about the significance of your AHS award to him and to the Society (BS) as indicating a growing national recognition of the importance of the Bromelids horticulturally. I said it was the first award to a man for his career in the Bromelids since Edouard Andre in the late 1900's. Which I guess it is, hope so anyway.

Curiously your PI NO. 116241 which I have from Korsakoff, which I judge to be simply a form or phase of *Z. macrosyphon* as we understand it, is blooming better and more abundantly than the regular *Z. macrosyphon* this spring which has been pretty dry. Our dorm came to me from England where I think Maj. Pam had donated seed to Kew. I bought a bulb of *Pamianthe* this spring from V.T. in Holland, it is an "evergreen" ismene, which has black seeds, and takes a year to ripen these seeds, according to Hoog. All *Hymenocallis* ripen their seeds in a few weeks or months I think. At least they do here. Traub has done a monograph of *Hymenocallis* in *Plant Life Yearbook* (no longer *Herbertia*, in honor of that dastardly fellow!) 1962 issue, just out. He also has a Phyla of living organisms which is really going back to Lamarck and Adanson. He is now busily at work on his "Cultivated Amaryllids other than *Amaryllis*."

Your roadside lily COULD be *Cooperia punctulata* from Texas, (or LA). When you say it is more like a *Cooperanthus*, that makes me think it is so. It has wide blue-green foliage, glaucous, very, and bulbs like *Rhodophiala*, some round and flattish, and set deeply in the ground, with a long neck to the top of the ground much like *Rhodophiala* (*Amaryllis bifida*). 2 to 5 inches neck.

Do you keep up with your reading in Spanish. I have a fund of reading that I keep at hand. I am dipping into Portuguese history too. Had one short course in it at the YMCA 10 years ago and can do fairly well. Old Port is tough, much more complex a language than Spanish. Perhaps as complex as French! Believe it or not, I think their vocabulary surpasses French. This intrigues me as comparative philology was my college major 37 years ago!

What was yours?

Wrs sincerely,

Wyndham Hayward

INDIAN HORTICULTURAL CO.

KALIMPONG, INDIA,

WHOLESALE PRICE LIST OF BULBS & TUBERS

ALL PRICES QUOTED ARE C.I.F. - BY STEAMER AND THOSE MARKED WITH + BY AIRFREIGHT.

NAME OF VARIETY.	SIZE IN CIRCUMFERENCE.	PER 100	PER 1000
+ ACHIMENES - in 10 diff. named vars	Topsize	₹. 3.50	₹. 25.00
+ " - Finest Mixed	---	2.00	14.00
AGAPANTHUS - Umbellatus	4"-6"	12.00	98.00
AMARPHOPHALLUS - Bulbifer	7"-12"	22.00	192.00
AMARYLLIS - Seuble species	Topsize	35.00	300.00
" - Equestry (Indian Miniature)	"	15.00	100.00
" - GRACILIS (Dutch Miniature)	"	55.00	450.00
" - Choicest Indian Strain Mixed	8"-12"	22.00	190.00
" - " Australian Strain Mixed	8"-12"	30.00	230.00
" - DUTCH HYBRIDS in SEPERATE colour of WHITE; DARK RED; SCARLET; PINK; ROSE; SALMON; CARMINE; ORANGE; CRIMSON & STRIPED	8"-12"	75.00	600.00
ARISAEMA - Choicest Mixed	Topsize	15.00	100.00
" - Cocciana	"	18.00	150.00
" - Griffithii	"	18.00	150.00
" - Hookerdi	"	18.00	150.00
" - Speciosa	"	18.00	150.00
" - Tortosus	"	18.00	150.00
" - Wallichiana	"	18.00	150.00
+ BEGONIA HEX - Splendid Mixed	"	8.00	56.00
+ CALADIUM - Fancy Leaved in diff. named vars.	"	60.00	500.00
+ " - " " Choicest Mixed	"	30.00	250.00
COSTUS - Speciosus	"	10.00	90.00
CRINUM - Amoenum	5"-10"	16.00	120.00
CURCUMA - Zeodaria	Topsize	10.00	88.00
" - Longa	"	10.00	88.00
" - Rosceana	"	08.00	-
CYRTANTHUS - (Ifafa Lily) Finest Mixed	"	9.00	75.00
EUCHARIS - Amazonica Grandiflora	5"-7"	15.00	100.00
FREESIA - Super Giant Mixed	Topsize	8.50	70.00
GLORIOSA - Rothschildiana (True Specie)	6"-8" Long Tubers	60.00	550.00
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" - Superba	4"-8" " "	10.00	88.00
HOSTA - Coerulea (Blue)	Topsize	30.00	250.00
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HAERANTHUS - Robustus	"	5.00	35.00
HEDYCHTUM - Finest Mixed	"	12.00	100.00
" - Coronarium	"	12.00	100.00
" - Angustifolium	"	15.00	130.00
" - Greenii	"	15.00	130.00
" - Gardenerium	"	15.00	130.00
" - Gracilis var Glaucum	"	15.00	130.00
" - Thrysiflorum	"	15.00	130.00
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" - Elatum	"	15.00	130.00
HEMEROCALLIS - Finest Mixed	"	10.00	80.00
" - Fulva Rosea	"	20.00	165.00
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" - Gold Dust	"	12.00	90.00
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HYMENOCALLIS - Littoralia	"	22.00	190.00
" - Rotata	"	22.00	190.00
HAERANTHUS - Multiflorus	5"-10"	35.00	300.00
+ KAMAPFERIA - Attrovirens	Topsize	20.00	150.00
+ " - Rotunda	"	15.00	100.00
ILLIUM - Giganteum	7"-12"	32.00	255.00

PLEASE TURN OVER.

NAME OF VARIETY.	SIZE IN CIRCUMFERENCE.	PER 100	PER 1000
LILIUM - Nepalense	Topsize	Rs. 35.00	Rs. 290.00
" - Tigrinum	"	12.00	100.00
" - Wallichinum	5"-7"	20.00	150.00
MONTBRETIA - Finest Mixed	Topsize	9.00	75.00
MIRABILIS + Finest Mixed	"	18.00	145.00
NERINE - Sarniensis	4"-6"	12.00	95.00
PARDANTHUS - Chinensis	Topsize	12.00	95.00
RICHARDIA (Calla) - Aethopica	"	14.00	100.00
SAXIFRAGA - Finest Mixed	"	14.00	100.00
TUBEROSE - Double "The Pearl"	"	5.00	35.00
" - Single	"	5.00	35.00
ZEPHYRANTHUS - Candida	"	1.50	9.00
" - Robusta	"	1.50	8.00
" - rosea	"	2.00	12.00
" - Sulphurea	"	2.50	15.00

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A FEW TERRESTRIAL ORCHIDS - SUITABLE FOR OUT FLOWER TRADE.

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CALANTHE - Alismaefolia	35.00
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" - Cyrtifolium	45.00
" - Devonianum	40.00
" - Giganteum	45.00
" - Grandiflorum	45.00
" - Lencifolium	40.00
" - Longifolium	40.00
" - Mastershii	70.00
CYPRIPEDIUM - Hirsutissimum	90.00
" - Insigne	60.00
" - Venustum	60.00
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VANDA - Teres	30.00

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COMPLETE LIST OF ORCHIDS WILL BE SENT ON REQUEST.

WE ALSO SOLICIT ENQUIRIES ON SEEDS OF DOUBLE GERBERA, CASSIA ALATA, FIGUS, ORCHID MIXED, PALMS, CROSSANDRA, RAUWOLFIA SERPENTINA etc. etc.

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INDIAN HORTICULTURAL COMPANY

GROWERS : EXPORTERS :: ORCHIDS : BULBS : PLANTS

KALIMPONG, INDIA.

28th. April, 1962.

Dear Sirs:

RE: FLOWER BULBS & TUBERS.

We have much pleasure, in presenting herewith our wholesale trade list of flower bulbs & tubers for 1962/63 for your kind perusal. We hope something therein will be found of your kind interest.

All the varieties we offer are top size, absolutely free from diseases and we guarantee safe delivery on all orders entrusted to our care.

Prices quoted are C.I.F.- by STEAMER and those marked with + will be delivered by AIRFREIGHT.

All bulbs will be ready for supply from OCTOBER.

Orders received well in advance will help us much in executing at the right time, hence we request you to please book your requirements as early as possible.

On large order we shall be pleased to quote our EXTRA SPECIAL prices for which we invite your kind enquiry.

PAYMENT - after satisfactory arrival of the bulbs, which we hope will be of much interest to you.

Thanking you in anticipation of an kind order, which we can assure you shall have our most careful attention.

We remain,
Yours faithfully,
INDIAN HORTICULTURAL CO.

Wyndham Hayward
Lakemont Gardens
915 South Lakemont Ave.
Winter Park, Fla., U.S.A.

2/7/62

Mr. B.Y.M.,
Pass Christian, Miss.

Dear Mr. Morrison,

I think Korsakoff's records are very good because those little Zephyranthes as well as the Cyrtanthus flower better under pot treatment, in small pots with light porous compost and perfect drainage. I am recommending people to grow them like that all over the country (outside in the summer in full sun, set the pots on a table) etc.

I always send Mr. K back any surplus of what I feel that I should ^{we} accept, and I sometimes have something to send him, so I guess we are about even these days.

When you learn the native habitat of Narcissus canaliculatus, I will appreciate your passing on the info. About 4 out of each pot of five bulbs have bloomed for me! There appears to be considerable variation among the flowers, and maybe considerable virus? Should we keep any of them on this account at all??? One was as pretty and charming a little yellow cupped Narc. as you could hope to see, but the others were rather irregular tho that might have been our freeze in early Jan., when they had a good frost at least.

You really had some cold weather. Prof. Claude W. Davis at Baton Rouge tells me his Habranthus robustus, H. brachyandrus and valuable hybrids H. Floryii, all froze right in the ground and are lost. He wants some seed. Was H. robustus injured by you (the bulbs in the ground)?

We ^{we} missed a cold snap by a mirable. Down to 25 or so for a few hours in the Groves etc, and maybe for an hour in my lath house, froze the tops off my 40 pots of Epidendrum Hybrids, Hawaiian types, worth \$5 apiece and more as an income producer, also froze the tops of 100 Phaius orchid plants which have not been frozen badly since the terrible winter of '57-58. It all means a real loss to me, too, financially, as blooming phaius bring about ~~\$\$\$~~ \$2.50 to \$7.50 by the pot at Easter etc.

The Pearl narcissus (tazetta variety), as I used to know it, was a rogue in the Paper Whites, poor keeping flower, pale lemon small cup, rather an inferior form, and tending to grow grassy. We always threw them out as they split so much.

I wonder if we could grow those Hoop petticoats here? I have a row of Campernelle Jonquils coming into flower now, wonderful things. About three flowers to a scape, fine perfume. I cannot bloom the double of ~~this~~ this which I bot from DeGraaff. Wonder if it is really the same? Growing in high land, but same area. I suppose that "tazza", big cup is the same as the tasse in dem-tasse! etymologically, anyway. They are not my idea of a "big cup" among the Narcissus species! Maybe Inn. got this messed all up like so many other things. I read somewhere that he was unable to oversee the first printing of the Species Plantarum properly, just threw it together with the aid of a lot of his students. I want to see what Stearn says about that in his introduction to the Ray Society fascicle? Do you have it?

DON'T YOU KNOW BRO. H. J. LUTCHER STARK, the Zillionaire of Orange, Texas and angel of the La. Soc. for Hort. Rec.??? By all means rectify this, and you have your angel! He is a wonderful character! If he cottons to you he will be your fairy godmother and everything! He has so much they don't know where to start counting it! His family cut off all the timber on millions of acres, then ran cattle on the land for decades and finally found oil! He has visited me a couple times or so, once bought \$800. worth of Amaryllis. Has the only herd of true Long-Horn cattle in Texas in private hands, and collects "original" Camellia trees for his estate, "Shangri-La." Paid \$10,000 for the "original" tree of the famous "Woodville Red." Has given thousands to the U. of Texas for a collection of English literature, then got sore & quit. Ike Nelson can get you an entree. I am sure. I hope he is still well & on the ball! I really enjoyed that man. Fabulous! Appreciates culture, too. Mrs. W. Hayward
W. Hayward

Wyndham Hayward
Lakemont Gardens
915 South Lakemont Ave.
Winter Park, Fla., U.S.A.

1/28/62

Mr. B. Y. Morrison,
Route 1, Box 24,
Pass Christian, Miss.

Dear Mr. Morrison,

Your of the 23rd must have crossed my last in the mails, something which has happened before this.

I will be happy to send Korsakoff a trio of Howard's Yellow, a very interesting little Zephyranthes, as your request, and without charge, as I owe him some stuff. He sent me a few Curtanthus the other day and some other stuff, sometimes shares odd-ball material that he gets from hither and yon.

He is the best grower and bloomer of Zephyranthes and their congeners that I know. I am going to write up, or have him write up, his technique of growing the little rascals some time. Have you ever seen his checks of bloom on all his little Zephs, Coops, Habs etc?? Some time to time he has sent me bunches of stuff, more than I can ever use, so I have sent a lot of it back to him to avoid wasting the material, it is too good to do that.

People like him, the rare real grower, will save a lot of things that might otherwise be lost completely.

I wonder what the story is about Narcissus canaliculatus?? who was Gussone who described it and when and where? Do you have a citation, all Baker and Col. Gray say is "variety of Tazetta". What was Gussone's range for this species? The only thing I ever saw was a notation in Wayside catalogue that it was a native of southern France. I gave up that canaliculatus long ago as the Wayside's form would not grow for me here! Wayside may be wrong.

These little Palestinian bulbs grow well anyway. Look a bit, one or two of them, as if they have virus, but maybe all Mediterranean narcissus have that.

Three bulbs in one pot are going to bloom besides the one in the early pot. I will get three or four blooms out of each pot which is not too bad. They still have a few of the boxes in the bulb rack at the store, so I may invest in 10 more boxes just for stock. I could sell a little tazetta like that as a novelty, for pots. ~~See~~ Soleil d'Or and Grand Monarque in bloom here today. About two or three weeks late because of cold spell at Xmas I think.

We had it VERY cold for Florida, only 30 on my frost porch or so, but down to 12 and 14 in low places out in the country and must have been 20 or 25 in places right on my property to look at the foliage of stuff. They had to call off the Camellia show at Orlando, adjoining here, always a very fine and large show! I had ice in every flat in my lath house the morning after the last cold night, early this month. Things have come back some, and most of what I grow there in the winter is hardy, so not much loss except to ornamentals as a lot of Bromeliads, badly burned, will come back, a large vine of Passiflora coccinea from Bolivia, with flowers and fruit, frozen to the ground (will come back) and about \$800 worth of Hawaiian epidendrum plants in pots which I should have covered. Also about 100 Phaius plants badly scorched.

Next season I WILL have a fair sized plastic warm house.

Yours sincerely,

Wyndham Hayward

PS WHAT ABOUT CALDWELL'S NEW LYCORIS HYBRIDS? How about a color plate of that raspberry pink one on the front page of NHM? Have you no angels to shake down for such a worthy deed? It is over-whelming... the man will remain famous in all horticulture etc etc. I am speechless! A hort. monument!

PS2-what is Zeph. P. I. # 116241, which I recd from Korsakoff?

Wynham Hayward
Lakemont Gardens
915 South Lakemont
Winter Park, Fla., U.S.A.

6/27/62

Dear Mr. Morrison, I never feel remorse or concern over piles of letters to which one has not had time to send proper replies... I have had to face that problem hard-heartedly. I suppose some of my correspondants think I must clam up for months at a time, but you know that a worth while letter cannot be just hack work, but there should be a big of inspiration. If I don't feel like writing a letter, I very seldom do it at that time, unless there is some pressing reason. When I feel like it the words pour forth faster than I can type (40 years of hunt & pick.)

We have had good rains and watering is less. Things grow so much better here from rainwater. It must be the nitrogen in the air, dissolved from the air on the way down by the raindrops. They say that our frequent thunderstorms (we have them somewhere over Central Florida every day and many times numbers of them) create this nascent nitrogen in the air and doubtless it combines with oxygen in the presence of moisture, clouds, rains etc so that there is a distinct fertilizing value in it, in the quantities we get in summer, half an inch or more several times a week usually, in summer. One summer I did not have to water my plants for five months. Usually just a few times. *Page 13 ille Sol Estes!*

Your Zeph. bucatunna ~~are~~ sprouted well (seed) and they look like Z. treatiae, very small, but they could be others.

Will be glad to have a dupe slide of C. roscoeana. Did I tell you there is a peg about this plant in B.S. Williams' Ornamental Flowering Plants, dated 1870, which I bought recently from England and he recommends it highly as a very pretty flowering plant for the greenhouse etc!! We are late.

I have checked and have about 60 sprouted plants of Curcuma roscoeana this season, at this time. Should have 6,000 by now. Have had it for 10 years. Lost about half two years ago in an 8 inch rain which actually drowned them out in their pots (no greenhouse). Always sell too short too. Turned down orders for a dozen this season, and bought 10 more from Van Tubergen just for stock.

I wonder if, of the 60-odd other species of Curcuma there are any others which would make attractive pot plants?? I cannot bloom Curcuma petiolata (your Curcuma incidentally) in pots though it does well in the ground if planted early. I wonder if northern gardeners could grow C. petiolata in pots? (bloom it I mean). It gets 3 to 4 feet tall here at optimum.

Your K. decora should be throwing up a spike soon from the base. That Rascal Korsakoff has anticipated me. I was going to send you a Globba winitii next season to grow! It is a wonderful gold-filigree dancing ladies ginger. I gave him a plant a year or two ago. I think you will like it. I got it from Kew in a trade. It has been figured in the B.M.

I am just finishing the planting of my own Achimenes, have a few dozen pots and flats to replant even now. I am way late, but have most other things planted now. Ahead that way. They will still do all right. Have some new ones, the new yellow one, A. flava in flower today first time this year. Small but good rich color.

Leave off that DeJager bunch, Van Tubergen lists L. autumnale, very reasonably. Cheaper too. Probably DeJ. just buys from them many things.

Hoog usually has his nomenclature right. He is good botanist and has a big library of his own.

Allium cowanii and A. neapolitanum are winter growers and spring bloomers. Useful for cut flowers here. Plant in fall, dig in late spring. bloom about Easter or earlier. *Hardy here*

Van Shaik is a woman bulb dealer in Vermont. I bought some Leucojum vernum bulbs from her which did not live. This species is very hard to survive shipment like that. True species, that is L. aestivum is easy.

Mrs. Clint showered me with a few more packets of new and *(seed)* probably fascinating Zephs today and reports she is on a new trip to Mexican bulb hide-outs! Lucky woman. Dr. Lyman Smith is doing a book on the Bromels, with pics. Maybe the Smithsonian will bring it out. We need a good handy not-too-technical book on Bromels for the horticulturist, Foster can do it, they just published one

in Germany, "Zimmerpflanzen von heute und Morgen", by Richter. Many pics, just read my copy from Quaritch. He stole part of an article I wrote for the Bromeliad Society Bulletin five years ago on the early history of the pineapple! About Ferdinand eating the first one that was brought to Spain in good shape! Translated for me from Peter Martyr's Latin by H.H. Hume! No credit given Hume! and delay of That Saluda, S.C. woman has a very interesting list of native plants and others for her customers... I will send you photocopy of Oviedo text on the pineapple/He is positively lush in his verbiage but then he was a real naturalist besides a good metal man. Was in charge of the king's smelteries in Hispaniola for a time. Oviedo writes a good simple 16th century Spanish, forthright and not too tough for me. Some words will stump you, but they have their solution. Those four, to whom Charles Elliot Morrison says they are the top for the pioneer discovery period history in Spain, Peter Martyr, Oviedo, Ferdinand Columbus, and Bishop de las Casas, were all honest characters. Utterly fascinating men. The more I read about them and of them, their works, the more they get me. Yet almost no one knows anything of them.

Yours sincerely,
Wyndham Hayward

W. Hayward

Traub's "Phala" in the 1962 yearbook of the APLS is attractive some attention!

Digitized by Hunt Institute for Botanical Documentation

Wyndham Haywood
Lakemont Gardens
915 South Lakemont
Winter Park, Fla., U.S.A.

4/23/62

Mr. B.V. Morrison,
Route 1, Box 24,
Pass Christian, Miss.

Dear Mr. Morrison,

I want to express my deep appreciation for the part I feel sure you had in the selection of Mr. Foster for the citation at Norfolk and hope it will be the first of a number of these of national standing, as he has been undeservingly neglected and perhaps his efforts in the field of the Bromeliaceae and Araceae are not too well known and certainly much underestimated, if that is the word. You remember you published his article on "My Plant had a Temperature," which introduced the breeding of the new giant self-heading Philodendrons from seed! He re-discovered this technique for the American trade. Of course, I think I could have told him how to do it earlier, as I know that odd habit of the Araceae in setting seed! The same with caladiums and others. *But he never asked me!*

Also I was glad to see the note by Mr. Korsakoff in the NHM and I am greatly pleased with the generous space you gave to Sam Caldwell's monumental Lycoris article, which gathers together a lot of loose ends, and perhaps most importantly of all, shows the two new hybrid Lycoris of which he sent me and certainly you Kodachrome transparencies! So us plodding horticulturists have a great deal to be thankful to you for these days. *gramman?*

As busy as I know you are and as I have to be myself, one can excuse any delay in correspondence, as with my own writing, I hope to keep up with just a few of the more interesting cooperators, communicators etc. Foster was greatly surprised to have Teuscher on the same program! They have done much work with bromeliads together, may have explored together for them and other plants in S.A. I believe. *(they are bitter rivals some ways.)*

I am sorry about Korsakoff's difficulties. I did not know about his wife, had a letter the other day but no mention of that. He is an interested grower and a keen if empiric observer of plant culture and behavior.

It was your Washington Mrs. Connolly who donated you the root of Kaempferia decora, the genus was first described as --Cienkowski! But I find there are a number of very interesting African species of the Kaempferias, of which I have three or four now, which will make startling additions to our pot plants. I made Mrs. C. a special deal on that K. decora as she wanted to give you something new and special to try this season. She had bought some Crinum that day to plant on her place at Monticello. Said she had been by to see you in Miss. *Was visiting here in Winter Park at a friend's*

Such meetings as horticultural congresses are tough on the qui vive... I like to go back to my plants after such experiences, where the tempo is slower and they are not so demanding. However I guess it does us good. We have an unusually intelligent brand of cocktail party in Winter Park, and they are intellectually exhausting to a similar degree sometimes! So I go to few, but like to take in one now and then to see that I am still just a little sharp on the apiggram and not just!

In replanting the Curcuma roscoeana, you can cut or break off all the little "cornlets" on the bottom of the rhizome, or leave them on and grow rather a big clump of plant. I have a woman grower friend hear here who grows them so well in half peat and half perlite that I bought some of the little offset rhizomes back from her this season. A year ago she must have had 15 large ones and many smaller but one of our packrats got into her shed and ate or took away about 75% of them. She starts them in her greenhouse, which I do not have (a greenhouse) hence possibly her better results or something. I had an order for 18 of these this season I could not fill, as I had sold short and also lost about half my stock in Hurricane Donna two summers ago! Donna and subsequent rains drowned them out right in the lathouse over

I have a new plant coming into bloom tomorrow, *Herbertia pulchella*, South American bulb, which I have never seen in bloom before and that is always something of a thrill in this business to the jaded plant appetite. A little irid which may or may not be terrific. I grow the *Herbertia coerulesa* which is a stunning little thing from your part of the woods. La. and Texas. Do you have it? Dr. Harold E. Moore Jr., the new Bailey Hortorium mogul kneeled in admiration to see it better when he was last here one spring recently.

I think you had just better accept that you are the pillar of horticultural Society that you are and accept these donations from adoring women growers with as good grace as possible. I got them myself in a minor fashion, women send me stuff from all over the world! Just this last week a woman in South Africa sends me four bulbs as big as a giant rootabaga of *Crinum graminicolum*, supposed to be a very new and showy species! All for nothing, but we do exchange stuff and I ask her what she would like to have. The postage on this package was \$2.50 or more. I suppose I was the only correspondent in sight in America who looked like he would be able to distribute the things in the course of time.

I do not know if Mrs. Clint has a nursery and sells stuff herself. I have never bought anything from her, but I believe her son has a (ornamental florists trade plant nursery at Brownsville. She sends me stuff and I return the compliment if I have anything she wants. She is a very high type woman who should get a deal of credit some way. Traub gave her the Herbert Medal a few years ago. Dr. Thad Howard, the San Antonio veterinary is the Zeph. hybridist! The first major one in America, I guess, just as Sam Caldwell is the first major *Lycoris* hybridizer. It is just too bad that you could not have gotten those two new hybrid kodachrome pictures in color. I KNOW there are people who could be hit for something special like that... but nobody seems to know them. Dr. Moore of Cornell, says he has no lady bountiful there, either! We have got to do something about that!

No, Mrs. Clint will be glad to have you thoughtful of her expenses, but I think her husband is a ^{reasonably} well-off real estate man. I think so. I gather Mrs. Clint will get her satisfaction out of what you do and say and write and publish about anything from her donation that may strike your fancy!

Foster is a wiry man, very sturdy and tough for his age and size (73 last Christmas) He wants to make one last plant exploration trip to S.A. I feel sure. You should SEE his new Bromel-cathedral of the air as I call it, northwest of Orlando, where he is now retired. However he still sells stuff.

I could tell you a long story about Dr. Cardenas, too. It seems all these things come around and meet sometime in horticulture. They were inviting him to come last year to address the La. Society for Horticultural Research, which you probably know (its Bulletins anyway) and they asked me what they should pay him. I asked them if they knew what his salary probably was as professor of botany at the University of Cochabamba! they had no idea, but suggested \$5,000 a year, I said more like \$40 a month! They simply didn't believe it, and somehow looked it up, and finally raised a remuneration of \$2,500 or so for his visit and lecture! He then took the money and made a trip around the world! Probably never would have been able to do this otherwise! I do not know the man personally. Foster knows him and has collected with him, says he is an Indian ~~and~~ a brilliant scientist!

You didn't have to write Dr. C in Spanish, but it was nice, as he speaks English very well I believe. Probably also writes it. His univ was hinted as a bed of red activity at one time recently. If Prof. Claude Davis sent you one of the *Amaryllis cravissae*-*Amaryllis agalaia* crosses cherish it, as it is the "jining" of the two new yellow species of *Amaryllis*, may be another LANDMARK for what you will in *Amaryllidaceae*. Yrs sincerely, Wyndham Hayward

W. Hayward
 Sorry they didn't have a good photo at the present hand dinner - I told him that would happen & to get his own photos, to get a notice in the Bromelid Society Bulletin, but nobody ever believes anybody any more! Well, you know a large part of the Congress in the next I.N.H.M. Give them down on F's background! W

Wyndham Hayward
Lakemont Gardens
915 South Lakemont Ave.
Winter Park, Fla., U.S.A.

1/26/62
Also
1/23/62

Mr. B. V. Morrison,
Route 1, Box 24,
Pass Christian, Miss.

Dear Mr. Morrison,

One of the little "Var, *Paestinus*" narcissus bloomed and had little rather star-like coronas with bright orange cups, very diminutive, and quite charming if one had a number of them, I should think. If they will grow and bloom with us, it should prove an interesting addition to our tazetta collection. By the way, maybe I should know but what does the word tazetta mean or refer to which? I see several other bulbs are putting up buds too.

I planted two boxes in November. They still have a few left at the store I saw the other day, so maybe I will make the manager a deal to take them all, as long as they will bloom in this climate. I have never been able to bloom *N. canaliculatus* here. Have you there?

I still have your check for \$25 attached to your last letter of Dec. 13th and I haven't the haziest idea what it was for, as you certainly do not owe ~~me~~ anything here and rather I may owe you something! I will hold it against your future orders if you so desire or can return it as taxes are due about this time in Florida, and maybe in Miss. They raised mine about \$25 this year. We pay about \$250 county taxes on our eight acres on a lake which isn't too bad as the houses across the street pay almost as much, maybe more in some cases!

Those "Palestinian" Narcissus were a strict contribution on my part toward the betterment of the world's knowledge of things narcissus-wise! When you give me your idea of what they may be I will have a better idea of how to list them in my catalogue when and if.

I have a *Zephyranthes treatiae* coming into bloom, not the usual sparse-foliaged type which never does very well in cultivation for me, but a vigorous foliaged type which was collected somewhere down towards Tampa last year by a young naturalist named John Hall. If it seeds I will send you a few as this ought to be hardy with you there. Dr. Hume tells me the species is found from Sarasota to Quincy, which is way up the state from here! It is not at its best in this county, maybe not enough low land.

I have just planted a sprouted root of *Curcuma australasica* from Down Under, which seems to be a species very like our *Curcuma petiolata*. We will see what we will see. I find that *C. petiolata* transplanted in January will usually bloom the first year with good culture, but not so surely if done later! I think I wrote that yours were all *C. petiolata*, at least the several that bloomed here. If our *C. petiolata* is properly identified, which I feel sure is the case after checking the original plates.

Did I explain that I received from India some roots of the true *C. longa* last year and the flesh of the root is BRIGHT ORANGE, like the Turmeric powder. I hear this is used in the far east and the Pacific as more for coloring than for food or condiment. I like the flavor of Turmeric powder in scrambled eggs.

Mail order bulb business is very poor this season, maybe because of the distressing weather up north. We lose a number of packages when these extreme winters come along and I suppose that discourages growers even if they are replaced. P.O. gives no protection beyond the heating in p.o. bldg. I pack with vermiculite insulation, it costs some but seems very good.

Did you notice that Park lists a couple of new "double"

Achimenes this season?

Yours sincerely,

Wyndham Hayward

I hear Dr. Moore is doing a mono on the Achimenes! He found *A. cottoana* in Mex.

Wyndham Hayward
Lakemont Gardens
915 South Lakemont
Winter Park, Fla., U. S. A.

12/9/61

Dear Mr. Morrison,

Thanks for supplying your own return envelop, but that really isn't necessary with me... I am glad you are interested in the Palestinian narcissus, that "variety Palestinus" may be strictly from hunger or promotion... My own idea is that the whole business was dreamed up by those hungry Dutchmen.

I bought a couple more boxes of these and will send them to you next week. If you wanted more, they may still have some, if you will drop a line. They were originally 59¢ a box, but lately they put them down to 39¢ which I think is pretty stiff for five little bulbs of who-knows what...??

They also have some Oxalis, double type, from Israel in similar boxes and some "Star of Bethlehem" bulbs, quite appropriately Ornithogalum arabicum, which may be native in Israel for all I know. Certainly somewhere in the Asia Minor area.

I have had several inquiries which lead me to think the Israel dept. of agriculture is trying to stimulate bulb growing of any kinds they can grow as a means of acquiring foreign exchange these days.

The bulbs don't look like any Canaliculatus I have had. The Canaliculatus would not bloom at all for me, ever!

I think I wrote that I had obtained ~~from~~ Leucojum autumnale, which did well, do you have this? I guess anyone but a bulb fan would call this rather insignificant... but no more so than ~~sin~~ Sinningia pusilla and just as cute.

I sent you a copy ~~the~~ of that Mr. Brumbach's book about daffs. Don't give it up till you have read his later chapters which I found really interesting and entertaining, especially about the S.C. daffodil areas. They need writing up in a more competent form some time maybe. Has account of them been published in the NHM? I cringe to think there probably has been. I have received some "N. moschatus" from a Saluda, S.C. woman who has a most fascinating list of mostly native plant material! She must be quite a collector, offered Atamasco Lily at \$1 a dozen, \$6 per 100, says they have millions of them there. We have a few in North Florida swamps, but no more than thousands I guess.

yours sincerely,

Wyndham Hayward *Wyndham Hayward*

Who is the Van Shaik woman? I got some Leucojum vernum which she says are the authentic kind from her to see if they will do as well as L. aestivum here.

AW

Wyndham Hayward
Lakemont Gardens
915 South Lakemont
Winter Park, Fla., U. S. A.

12/6/61

Kaempf
deLeon

Mr. B. Y. Merrisen,
Route 1, Box 24,
Pass Christian, Miss.

Dear Mr. Merrisen,

Yours of the 4th must have crossed my packet of the supposedly Palestinian Narcissus, which I wanted you to see and grow if you were interested, and see what they would seem to be! These are being sold in our local Food Fair supermarkets. I suppose you have these colossi of the food industry in your corner of the Old South!

They claim to be on the cover) *N. tazetta* var. *Palestiniana* (?) whatever that is, as I do not see that varietal name anywhere. The bulbs are small so I suppose are some kind of jonquil type? Are you familiar with this particular one? It may have come to your ken previously. Apparently they are dispensed by some Dutch bulb company with the cooperation of some Israeli growers! They are both good business people which I am not. I sometimes wonder if I am a worse merchant or grower! A dutchman once told me I was a better promoter than grower whatever he meant.

PLEASE don't worry about that *Achimenes* matter. I will get to the arithmetic some time. I hate accounting like that. I am sure you do not owe me anything and will cancel any such balance instanter. I do not charge postage on *Achimenes* orders as a rule and do not in this case. I send out my abundance of \$1 orders for a dozen in the spring at 3 $\frac{1}{2}$ mostly.

If you break the tubers in sifting them out, your soil is still too moist or you use a too compact a compost I would say. If you grow them in a half sifted peat and half a coarse sand, not too coarse of course! You will find little difficulty, only some of them make little cocoons as it were to grow in, which makes their cleaning more time consuming. Some come out very clean easily.

A number of varieties make these aerial rhizomes of which you speak, some to an excess. Yes, they can be saved to propagate if you wish. They are a little nuisance to collect and clean up and store, I store in vermiculite myself. They will start to grow early in spring, and need to be sifted out early before they make long sprouts. In a warm house this might be Feb or march in storage.

Your picture of *Curcuma roscoeana* does not show the interesting character of the foliage, which I did in my latest photo which I used in my old catalogue, clipping herewith. I don't guess I got a flower open either, will have to look at the original plate. If you got a color slide I would like a 35 mm dupe. *will be glad to pay you for it*

I think I wrote last Fall that we lost half our stock of *C. roscoeana* last year (1960) in the unprecedented summer rains right in the lath house. This year the rains were a bit under normal and we did not lose a plant, but we have about half as much of a crop as we would have had. I have already had orders for this one that I cannot fill. Several northern dealers will take up to 25 roots if I can spare them for \$1 or \$1.25 each, which I have done some years. But that summer of deluge, 1960, ruined me for another five years. I won't have enough to meet my own business needs. I expect to order 10 more to grow on to help increase my stock from Van Tubergen this spring, who lists it at \$1.75 this year I see each. His are good to grow on but are always small, just little chips off the main roots. I never had a good size one from him of this plant. Those thrifty dutchers.

I don't agree with Mr. Arnold's determinations of some of the colors in that check list either. But then he grows them in a greenhouse as no doubt you do and I do them in half sun in the lath house and the colors are probably more brilliant here. For instance he finds *Little Beauty* and *Charm* over

a magenta shade as I recall by the chart, but to my eyes they are salmon rose and rose pink respectively, with the dotting in the throat disregarded.

Even with an RHS chart which I have, two growers seldom see eye to eye as to flower shades.

I let mine trail largely in the flats and pots, of course some are quite dwarf and do not trail, as Patens Major, Little Beauty and Francois Cardinaux.

I just wonder if there are not a few more gingers as effective as C. roscoeana in pot culture, -- besides the Kaempferias. You should take up the Kaempferias this year or next, they are a large group and very interesting and effective. I wonder if they would do as well for you under your methods as here with me in the lath house in pots and flats. I believe you have one or two, probably K. pulchra and years ago I wrote up K. rotunda in the NHM for you. (I think). Recently I received what was supposed to be a nice root of K. natalensis from a lady in So. Africa and it turns out to be old K. rotunda! Good thing I had it already or I would have been stirred.

I really don't have enough C. roscoeana to spare more than my usual few regular trade orders this season, and it will take me several years to work back to my former abundance!

I just bought a fascinating plant travel book from England, "A Traveller's Notes", by James Herbert Veitch, 1895. He made a trip through India, Java, Malay, Japan and Korea and briefly in China then went to Australia and N. Zealand! Apparently these are an expansion or reprint of articles he wrote for the Gardener's Chronicle, but they are fascinating! He mentions seeing scads of things we have just barely been able to introduce here in the past 30 years! I despair of his knowledge of tropicals and sub-tropicals, and wonder what is the status of the gardens that he describes! He visited mostly nurseries and public gardens. He must have scribbled like a beaver for his "notes". Not a botanist and no pretension but he got the right names every time, I guess. I was amused to see he mentions a collection of Bromeliads at the Singapore botanical gardens and my Caladium Anguities in an Indian collection! Almost nobody has this last here even now. Where did you get those fall-blooming Narcissus if it is not a family secret? I would like to try some. I got a batch of Leucojum autumnale this fall. It seems to do all right here like the L. aestivum. *Do you have heart?*

Yours sincerely,
with seasonal greetings,
Wyndham Hayward

Chick

Wyndham Hayward
Lakemont Gardens
915 South Lakemont
Winter Park, Fla., U. S. A.

8/28/61

Mr. B. V. Morrison,
Route 1, Box 24
Pass Christian, Miss.

Bear Mr. Morrison,

I had replied at some length to your previous lines a day or two ago and yours of the 25th is here. I too think a Crinum article would be fine, and I say that without vainglory as while I would be glad to do it, I would likewise be glad to have somebody else do it, perhaps to give it more the simon pure Amateur touch... however I see that in the Journal of the RHS a lot of the articles and lectures are given by learned members of the trade... after all who should know their plants better if they are sincere.

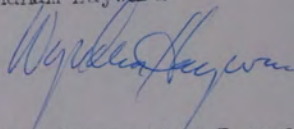
You know what I mean, there are a lot of dealers who do considerable publicizing, who are spoken of by nurserymen who know them, "he don't grow nothin'--he just heels it in!". I try to grow successfully every thing I sell, in fact I hesitate to offer a new or unknown item until I have tried it out... as they say, if it will grow for me...

I don't think, really there is any specialist in the genus. Dr. J. C. Uphof emeritus professor of botany, now living at Tampa, did a botanical review of the genus some 20 years ago in the APLS yearbook. He worked up material on about 120 species as I recall. In this country we have only a dozen or so species grown at all, and perhaps that many hybrids. A lot of orphans and unidentified mongrels I suppose in every old southern farm and garden as I guess they seed and intercross in any large planting.

I don't know how many Dr. Uphof has actually grown or studied in cultivation. Whatever I would write would be based on personal experience and observation of trials. We don't always grow them well, but I try to bloom them all well once or twice to know what they CAN do. Happy to do it gratis.

Yours sincerely,

Wyndham Hayward



PS I was also going to do you a piece on the cultivated Taccas when I could get to it. *T. chantrieri* is quite popular as a pot plant here and elsewhere in the East, still a rare plant, of course, and I am growing a magnificent plant or two of the Hawaii arrow root flour plant, *T. hawaiiensis*, by some called *T. pinnatifida* var. *hawaiiensis*. 3 to 4 feet tall in an 8 inch pot, purple whiskers like the *Chantrieri* too. But green flowers and berries, not maroon.

Wyndham Hayward
Lakemont Gardens
915 South Lakemont
Winter Park, Fla., U.S.A.

8/25/61

Dear Mr. Morrison,

I had an inquiry from Mr. Chalupnik of Hodges Gardens, and also another curiously from one Lee Hodges of Monroe, La. the day before..probably a mere coincidence. The latter was about *Amaryllis*.

I am glad the *Cureuma roseocana* is blooming. I hope you will study the actual flower of this and compare it with the flower of your local *Curcuma*, whatever it is. Your bulbs here have not bloomed for me this year although the local *C. petiolata* have bloomed some places. This flower must be some distinct from the usual *Curcuma* as Loosener transferred it to the genus *Hitcheniopsis*! in his treatment in the *Pflanzenfamilien*, I believe or previously. For ordinary horticultural purposes I guess it remains *Cureuma roseocana* right along. I don't know what good standing the genus *Hitcheniopsis* has with the other botanists.

You are ahead of me, but then I sold all the big bulbs of *Curcuma roseocana*. It is a terra cotta color, the bracts, and the women always say--oh how gorgeous that would look in my Chinese room! The tuber is small, store and dry off in November. In April re-pot and the small offset tubers can be removed and planted separately. I wish I knew if there were others in the genus with such interesting pot quality. Most are too large. Some have bloomed *C. petiolata* in tubs or egg cans, but I can never bloom it in a gallon can.

All Van Tubergen sells of this *C. roseocana* is the little offset tubers that I know, all he ever sold to me but with care you can bloom them in six months. Did you grow yours inside or out? (under glass?) I grow them in the lath house or under trees. Lost many last year in heavy downpours and Hurricane Donna which actually drowned the bulbs with too much water. Otherwise I would have had ~~quarrels~~ by now.

I had to know you like *Lycoris caldwelii* somewhat anyway. It would be too bad if nobody liked it so long as it was named for such a nice guy!

A man just phoned me from Palatka tonight that he had found among his bulbs of *Lycoris aurea* (old Florida type) that he has been buying from the St. Augustine area, (he has several hundreds) a different one with pink flowers having a yellow center! He is going to send me one. I cannot imagine what it is unless a natural hybrid between *L. radiata* and *L. aurea*. They may both have been growing in gardens around St. Augustine for centuries.

Are you growing all the *Achimenes* too under glass? I have them all in the lath house, now with our steady rains they are magnificent..a few flats suffered from our several weeks drought in late July-Aug. They do need that water to keep stiff and upright. They wilt so easily, which affects the bloom.

I am really still very interested in these *Achimenes* after 20 years with them, and I wish someone would take on some hybridizing them. Why not you or under your auspices since you wrote something about them setting seed frequently with you??? They rarely set seed here, I don't know if I have seen a seed pod in 10 years. They make aerial tubercles though. Some of them.

What's your I am continually experimenting with various mixes and composts for *Achimenes*. One of the great troubles with *Achimenes* is that you cannot entirely lick Nematodes and fungus rots no matter what you do. Some vars. fall victim every year or two. There are several vars I do not have now or have only in a small quantity, which I used to have in skillions! One year I used some fine pulverized dairy manure which was not sterilized! Ouch! Never again. I use a sterile mix now. Even so some of the rots give me troubles, now and then, where I grow them in quantities, flats etc. What mix are you using? There are mixes which will grow tubercles twice or three times as large as usual! but usually poor drainage or drought is the great leveller and those flats don't do any better after all. Sometimes a whole flat won't produce a single good tuber! Sometimes 200 or 300! Of course one can start with new fresh tubercles raised from cuttings any time! But it takes time! For *Achimenes* list write Paul Arnold, 28 Notchkiss street So., Binghamton, N.Y. He can tell you where to order the number. I got my *A. flava* from him. Maybe he can spare you one. He got them from Dr. Moore at Cornell. If you can beat that write Yours sincerely, Wyndham Hayward

Wyndham Hayward
Lakemont Gardens
915 South Lakemont Ave.
Winter Park, Fla., U.S.A.

7/22/61

Mr. B. Y. Morrison,
Route 1, Box 24,
Pass Christian, Miss.

Dear Mr. Morrison,

You seem to operate about the same as I do... what has to get done gets next attention... if it is cutting the grass, planting the bulbs, house-cleaning, etc etc. Thanks for yours of the 14th. I am still trying to find time to work out your invoice for the Achimenes I sent you to see if I owe you something!

Perhaps the most exciting event this season for me in the Achimenes line was the blooming of Achimenes flava for the first time, the other day. This had been down-rated to me before receiving same, but it is a charming little fellow, and while the flower is small, about like a large A. coccinea, perhaps 5/8 inches diameter, it is a lovely rich yellow, out of this world, indeed way, way out as they say! I have only about six little plants so far, the result of cutting up a couple rhizomes, and have not yet found out where and when this sp. was described, but it comes from Mexico and was brought back last year by Dr. Moore.

We have been wanting the color yellow in Achimenes like blue in a snapdragon and white in the calendula! Of course this one is rather a shy little fellow at first, at first bloom here at least, but charming, very pretty.

What it will be when I can bloom a whole flat of them or a pot-ful is something else again. Maybe the foliage will be too much for it, conceal or subdue the flowers too much, as after all, even a rich yellow is not a flaming red you know. I shall grow it on carefully to make as much of it as I can.

Strangely, I am afraid after 20 years I am going to have to change my method of culture of Achimenes. One of 20 years ago growing them, and more there have been only three or four when the heavy June and July downpours caused me heavy losses... a two-inch cloudburst or ~~two~~ three (we had an eight inch rain last year all in a few hours) and a couple of 3 inches and a 2 1/2" rain so far this season just to punctuate our usual summer rains. Some summers there would not be a hard early rain to damage my freshly planted flats. The last five years there have been two or three years when I have suffered such losses. *Am sleep many vars now.*

A hard two or three inch rain does no particular damage to a vigorously growing pot or flat of Achimenes, if the plants are sturdy, grown in 50% sun in open air, but if they are just planted such a downpour will drown the little newly planted rhizomes and maybe ruin a dozen or 50 flats, even if drainage is perfect. You can't have perfect drainage in a flat with Achimenes compost if one gets 3 inches of rain in half an hour.

With good weather I get better plants, bloom and rhizomes in the lath house than under glass. You should find the same thing. They tend to get leggy and somewhat droopy in a greenhouse unless they have lots of light, but little direct sun in the mid-day hours, as 10 to 4.

I promise you a complimentary rhizome of A. flava as soon as available if somebody doesn't supply you previously.

I can tell you now that the Curcuma you sent me a root of last year is NOT C. longa, the Turmeric plant. I have received the true Turmeric curcuma from three sources and it has a carrot-colored rhizome, in every case. Not a yellow or pale white rhizome like yours, but orange red! Just like the Turmeric powder in the stores. Did you ever use it in scrambled eggs or a meatloaf??-uh-huh. There must be a way to eat or use the raw or cooked rhizome, not powdered, but I haven't found out how yet. Do you have any exotic cookery books that would tell? The powder is also used in pickles, and is a component of Curry powder, which has about 10 things else, too.

Have you read Michener's "Hawaii"? I have some roots of the Curcuma longa which the pioneer Polynesians brought from Tahiti or wherever they came from, as described in the ~~main~~ first part of "Hawaii", in their canoes,

under strict taboo so the crew could not ~~eat~~ them, en route! Turmeric has been a forgotten plant for 200 years in Hawaii since the primitive days, but I found it mentioned in Degener's "Flora", and he wrote he seldom had seen it in the far back country where old Hawaiian settlements used to be. But the Foster Botanical Garden had a collector in the back country of the Island of Hawaii who found some and they spared me a root last year! It was the true Turmeric, with the orange root, but a second shipment, with two roots similarly collected, proved to be quite another species, with BLUE rhizomes. This is ~~another~~ a well known character of several species, mainly I believe, *Curcuma aeruginosa*, which means verdigris-colored! I have never had this blue-rhizomed species from any other source and as far as I knew, they did not know they had it in Hawaii!

But it is known in Java, where native, and perhaps other parts of Malaysia, and perhaps we have here another previously unknown ethnic plant, brought to ~~the~~ islands by some pioneer navigator.

Then again, it may turn out that some Japanese collector dug this root in his garden for the Foster Botanic Garden and it got mixed in my shipment and was not actually from the backwoods of the island of Hawaii, but I have not been able to straighten this out yet. Some Chinese gardener might have brought some of the blue rooted species from Singapore! This would all make an interesting article for the N.H.M. some time when we get better dope. I am trying to get word out of Degener or Miss Neal, but they are not very communicative some times. They don't want to stick the neck out on a matter of this kind unless can be quite sure! Incidentally, this blue-rhizomed species has the chocolate stripe on the foliage, too, in a larger pattern but shorter! On mature leaves the design does not go all the way down the leaf or something.

If you ever find any roots with the blue color (~~Curcuma~~) please let me know, to see if yours are like mine.

I believe the ones you sent me are the same as our *C. petiolata*, as we call them, but after reading a Paper on the Zingiberaceae of Java this past year, that I bought in Holland, I wonder if it is not really *C. australiastica* but that will take some more study; and there are 40 or 50 species of *Curcuma* by this time. *C. roscoeana* is the only species I can bloom regularly in pots!

Anyway, we have pinned down *C. longa* (*D. domestica* of some authors). I have not bloomed either *C. longa* or *C. aeruginosa* yet, but they say in the literature that both of them are pretty. The *Curcuma longa* we grow today in the world, is not the *Curcuma longa* of Linnaeus, so it seems, as the original plate of *C. longa* 200 years ago, and plus, shows a plant with the bloom coming right from the root like *C. zedoaria*. Not from the leaf stem like *C. petiolata* and our present *C. longa*! Want a plant of the genuine *C. longa*? I can spare a small one and ~~can~~ think it will carry in a cigar box if I pack it in sphagnum and plicofilm.

I am very glad the *L. houdyshellii* bloomed. It has bloomed only once or twice here. Did you grow it in light thin loam or rich moist soil? It bloomed here in July as I recall. full sun or part shade?

I would suggest you grow the Curcumas in the ground in a well drained partly shade bed of rich well drained loam, but *C. roscoeana*! Mulch them well in winter after the foliage dies down and freezing comes.

I want to study these Far Eastern Rhododendrons that are coming into prominence now? Do you gather they are all half-hardy, tropical or some even quite hardy in some cases? It is going to take a long time to study those and I am getting along in years! I will have to get in touch with Mr. L.

You will have to have dozens of rhizomes (and plants) of *Achimenes* to grow ~~the~~ the "masses" of bloom they show in the old plates. Some of the plates show only a few blossoms, however. You can grow a basket of, for instance *A. coccinea* (*Pulchella*) 3 or 4 feet in diameter, but it will take probably two years and 100 rhizomes to get this started. I gather they used not to disturb them a year or two to get them real thick in the containers.

Curcuma roscoeana blooms Sept. Oct. usually. They are divided between species that bloom from the rhizome in spring and those that bloom from the leafy stem in summer or fall! Yours sincerely, Wyndham Hayward

WYNDHAM HAYWARD
Lakemont Gardens
913 South Lakemont
Winter Park, Florida, U.S.A.

9/9/60

Dear Mr. Morrison,

Further about the curcumas, the rhizome blooming divisions which includes a number of species, ~~and~~ (species which send up the bloom spike from the rhizome, lateral to the leafy stem) usually bloom if not always, in the spring only contemporary with the coming of the first leaf sprouts. The ones in which the inflorescence is "terminal", even if down in the sheath of the leaves so much that the women call it "Hidden Lily" as they do in the case of *Curcuma petiolata* in the lower South... (this darned name has become so well known that the females write me concerning such and such of the "Hidden Lilies"!)

have the flowering period in summer and fall.
I wish you could have seen the spikes on *Curcuma roscoeana* I saw last week at the place of a woman friend near here, Miss Hazel Sawyer by name, who got her stock of it some years ago from me, (paid \$2.50 ~~per~~ apiece for about five little pieces of this rhizome) and she does not divide them up but grows them in large pots, starting early in spring. Talk about show pieces! Plants 2 feet tall, with the flowering cone spikes about a foot tall, bright orange-terra cotta!

We cannot get them to seed, however. Otherwise we could have this item in quantity. I had about 80 pieces of rhizome this year, but planting them late, in May and June, they were drowned out in my lath house in their pots by our scorching rains of June and July, one day we had 8 inches... and I find about 1/3 have rotted in the pots, so I am back where always with about 60 plants, only about 20 of them large blooming size. The large rhizomes (about as big as good size walnuts) have two or three little pieces of rhizome that one can break off and grow on separately to increase stock. I want to make a deal with this Miss Sawyer to share her small offsets next season to help me recoup my losses. One year I sold 25 to one customer. With my reduced stock I will be hard pressed to spare more than two or three to a customer.

I would like to try *Zephyranthes* # 116241 unless it is *Z. grandiflora*. I got one Zeph. from the USDA, can't recall the number just now, will try to look it up.

I have just set seed on *Z. macrosiphon* with pollen of the little Panama Pink *Zephyranthes* which I call *Z. Nelsonii* (Hort). So it may have a use in hybridizing. I think it made a cross because the seed were few in a larger than normal pod, and rather fleshy and larger than normal *Zephyranthes* seed! One finds that sometimes in such crosses. I have heard of a fertile form of *Z. grandiflora*... would be glad to try a few seed sometimes! I have a neighbor who claims he has some of this type. Maybe so, like the *Lycoris radiata*. I guess the non-seeding form in a triploid.

Have you ever noted the fine bulb plates in Ferrarius' "De Florum Cultura" (Rome 1633) "his book was so valued in Holland that they printed a complete edition of it in 1669 with a new introduction... I bought a copy of this edition for the famous H.J. Lutchter Stark of Orange, Texas (hope you know him, he is fabulous) a few years back in Europe for him especially. Mr. Stark collects "original" *Camellia* trees for a plant hobby, also has a stable of the only surviving Texas Longhorn cattle!"

Getting out a book is more the matter of finding a publisher as I find, which may be no problem to you... If one knows a good publisher's editor or is on good terms with the publisher... it saves having to go to one of these "vanity" firms. If you have the publisher, don't disappoint him!

What are your Satsuki azaleas??

Yours sincerely,

Wyndham Hayward
W. Hayward

WYNDHAM HAYWARD

Lakemont Gardens
915 South Lakemont
Winter Park, Florida, U. S. A.

8/31/60

Dear Mr. Morrison,

PI#

I don't think I have any *Zephyranthes*, 116241, unless it is *Zeph. grandiflora*, which I received several years ago. *Z. macrosiphon* seeds very easily. Mrs. Clint found this in Mexico on one of her trips, so it is becoming more common. She didn't know what it was. I have stock from seed sent by the late Maj. Albert Pam who had it identified at Kew as I believe.

A number of people, home growers sell *Z. insularum* as *Z. simpsonii* which is actually very scarce and not in cultivation but rarely as I believe, does not lend itself to cultivation very well, similarly to *Z. treatiae*. The latter is common around here if you can find it (after "burn-offs" in the spring when it rains) but never seen in gardens. I had some but think I lost the bulbs.

About your horticultural "memoirs" yours would be helpful, educational and entertaining as a certain focal point of American garden life. You could be as frank or otherwise as it would always be entertaining, as well as valuable documentarily. If you only knew the trouble I am having trying to gather some data on my old friend Ferrarius, the author of *De Florum Cultura, Rome, 1633!* I finally have the Italian edition of this work, 1638, but it is tough Italian. The Latin is too tough for me. There is a dearth of information about the man, but horticulture was just a hobby to him, he was professor of Hebrew and other Oriental languages at Rome while he wrote his flower and "Hesperides (citrus) books. I find that my old College chaplain is now living in retirement at Siena where Ferrarius was born and died, so I am asking him to look up the guy there.

Yours sincerely,

Wyndham Hayward

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PS One of those disconcerting things, I recently received three roots of what was supposed to be the genuine *Curcuma longa* (*Curcuma domestica*) an old ethnic plant with the pioneer Hawaiians, very rare now and found only in the back country woodlands. They were supposed to have been collected way back, away from any civilization and plantations of the past 200 years! Old tribal garden sites on Hawaii. But there turn out to be two species in the collection one with a chocolate splotch or blotch on the leaf and reddish leaf stem sheath at the base. Seems distinct from our *Z. Curcuma zedoaria*, not a linear stripe on the young leaf! a minor mystery.

WYNDHAM HAYWARD

Lakemont Gardens
915 South Lakemont
Winter Park, Florida, U.S.A.

8/22/60

Mr. B. Y. Morrison,
Route 1, Box 24,
Pass Christian, Miss.

Dear Mr. Morrison,

I too have worn myself out over the last 30 years with various civic endeavors hereabouts in addition to my professional and avocational horticultural pursuits. But now I am sitting some of them out and trying to keep up with my more promising bulbs and tubers. I have one or two blooming now, which I wonder about, what they will do when they hit the big time in this country... I just wonder if they can be a thing for the common people, and I feel sure they will be a major hit when they do.

These are *Kaempferia decora*, from Africa, a new large flowered species with yellow flowers! Makes a nice pot plant in sixes, and then what I got from Kew (imagine!) last year, *Glozza Winitii*, the Dancing Ladies Plant, which wows them here whenever they see it and is hard to keep them from buying only I have not sold any! I believe these are so new, at least to American horticulture, that the USDA ornamental horticulturists even have not caught up with them... although they may have seen them in the greenhouses of Europe and not realized what good things they are and how easily raised and grown by the casual horticulturist! If I got enough increase I will spare you a piece of them next year or so. They multiplied very satisfactorily this season. They would be perfectly "hardy" there with you as they go dormant in winter and one just puts them away and dries them off in the shed in winter.

You are rather cynical about our great American horticultural scientists. I don't worry about your own work, you are already a very good gold-plated at least God of US Horticulture to the good garden ladies of this fair land wherever you are known and where your name and contacts have spread. I feel however you owe your friends and American gardening a book... Dr. F. wrote several, long after he was your age.. and I am sure he really did far less for American gardening, horticulture of what have you... you just didn't have all his flair for personal ballyhoo and rich friends to promote....

Nevertheless I feel a book of your horticultural reminiscences in which you could "tell all" in your own inimitable way.. and here I do not joke.. you have a style particularly if not peculiarly your own... is long past due as busy as you may be with your civic endeavors and your azalea and other cultures.

I think that pink or rose *Zephyranthes* flower you sent is *Z. macrosiphon*, which is not very large, between *Z. rosea* and *Z. grandiflora*, which seeds readily and sows itself all over the other *Zephyranthes* bulbs in pots and the garden. Hence is often found in other plantings all unbeknownst. I am sorry.

Your *Curcumas* have had lots of rain ^{here} so I hope they grow and bloom this year, next anyway. If possible I will send you a bloom of our own *C. petiolata* here which is in full flower ~~hard~~, very fine spikes for all the wet weather ~~xxxxxxx~~ we have had here.

Keep a record of what fails, of the material sent you and I will be glad to replace same next season gratis.

I will try to nail Dr. Flory for bulbs of PI# 116241, whatever it is. He is very cooperative.

I can send you a dozen each of the *Zephyranthes insularum* (white with pinkish cast outside of petals or even reddish, deeper in color as the ~~is~~ flower fades), also *Z. I* am sure the error was nature's, not yours or mine. I find many perplexing mistakes in ~~the~~ my own labels, this season I find some

over

Marvete.

K.kirkii(pink) labels on some K.decora(yellow) plants!

I do know that Mr.G.sells Z.insularum as Z.simpsonii.

I will be glad to place on your order for next Spring three roots each of the three unidentified Curcuma roots;also 3 of the C.roscoeana roots; I warn these are expensive,I have never sold them at less than \$3 and \$5.00 each for small and large blooming sizes,which are still very scarce.I have less than 60 and they were \$3 each in Europe this season.They do not succeed here in the ground in soil with me,but do well in 6's with a sterile compost. They are a show piece when well grown like the Haemanthus multiflorus.You would want the \$3 size,three of them or just one or two of the larger size? Large sizes are relatively small,about as big as the end joint of your thumb. They have little tuberclets hanging on them.

Please feel free to order what and when you wish,as it is very important to me to have people who are knowledgeable about these things get to know them better.

I have a lot of these Japanese type(fertile) Lycoris radiata, also some of the old triploid type(Old Southern Type),also plenty of the very fine Laucojum aestivum var.Gravetye Giant,fortunately.They are good. Unfortunately we are a little too far South for the L.radiata types to do well. I have not had a bloom this season,for not having taken good care of them, keeping them clean of weeds and well fertilized.If I do that extra conscientiously they will bloom sparsely as a rule.

I guess you and your lubber grasshopper is the same nasty character.I have several metal trowels in the lath house to excommunicate them, I hate to step on them they get so big!

I will try to find that azalea article about the explorer who was hunting for them in the Far East.I know Veitch illustrated some Japanese species of Rhodes in their "Hortus Veitchii" of 1906 which I have and find quite useful.It is a fine book of tribute to the dying firm, listing its famous introductions through the years.

Yours sincerely,

Wyndham Hayward

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Labor Day,
Route 1 Box 24,
Pass Christian, Miss.

Dear Mr. Hayward:

I should have written you before this that I did "undo" a fascicle of my plant of the questionable *Curcuma* and the inflorescence is terminal on the rhizome like rootstock, if that is the term. There will be side growths, just as in rhizomatous iris.

The *C. petiolata* from you is making two magnificent masses of foliage, all much more delicate looking than my stuff but they have had more care and more water!

It was disconcerting I know to get two species of *Curcuma* when you wanted all of *C. longa*, but let's hope that the one with the spot will be something extra! I do hope the other will prove to be correct for you, and for the rest of us in time.

If you would like *Zephyranthes* sp PI 116241 I can send it easily and I'd like you to see it, anyway as to my eye it is your *Z. macrosiphon*. It seeds all over the place, has crop after crop of bloom even more here than *Z. grandiflora*. Of this last do you have stock of the fertile form? I have some small seedlings coming on and I should like to see them. I have the seed from a friend in California who had it from England. I have not seen the flower.

I have a whole series of *Z. grandiflora* from PI, but I cannot see any variation among them and although I believe I have all the metal tags still, I'll not swear to it, to-night, nor go and look. None seeds.

Certainly I wish you luck with your search for data on Ferrarius. But even my sympathy in your quest, does not soften my heart on the idea of writing up my garden memoirs! You are not the only one after me, so be cheered, but so far, I seem only to have been helpful (open to question always) to others in their hunting, e.g. Wister who sat in my living room and pumped me for hours, before he wrote his bulb book! I honestly do not care and did not, but my mother then living, was so furious she could scarcely be civil! It was comical really. After all, I feel very strongly, that anything I know, I have learned from many many many other people, all of whom have shared their knowledge so generously. Right now I feel an enormous indebtedness to the unknown Japanese people who have created the "satsuki" azaleas that are giving me so much joy ~~and~~ and so much work and pain, in getting them safely into the country!

I should report also, that the *Tricyrtis* you sent me, has lived, every piece and most have made small new shoots from the uppermost axils. I am grateful.

All best wishes,

Sincerely,

Route 1 Box 24,
Pass Christian, Miss.,
19 August 1960

Dear Mr. Hayward:

Even at the risk of appearing to be a "pest" I have a few more questions to bother you with, if you will.

But first let me report that the plants of *Curcuma petiolata* are growing like mad, and still look very different from our plant to me, a dubious criterion! *Gloriosa carsoni* is in flower finely and the other *Curcuma* is making more shoots from the base, so all is well.

But I have a little difficulty with the zephyranthes, probably my own carelessness, though I should like to think not! I wrote you that macrosiphon had bloomed and did not seem very "macro". What bloomed were the bulbs where I have the insularum tag. This is in bloom again, and I inclose a flower. If this is insularum, then the plants I bought as simpsoni and have been considering as insularum are not. Would you be willing to let me buy identical sets of the two species from your supplier, through you, so I can check to see if I mixed the labels. The plant in flower looks very much like the unidentified species that I have from P.I. as No. 116,241. (Bulbs to Flory)

In rereading and studying your list, I note that you have some unidentified *curcumas*, and wonder if I may have three roots of each. If so, please charge against my credit.

I'll try to make up my mind about the achimenes, that I should prefer to have as dormant roots, later on, before too long. I hate to bother you with this series of requests, and hope you will be as patient as possible!

Now a third thing. I believe that I have a good supply of the fertile form of *Lycoris radiata*, and I note that you make no mention of that in your list. I have staked all my clumps this season as they are now passing out of flower, the earliest of the several *L. radiatas* that I have, and its chief garden virtue. If you would like some, I should be only too happy to send them and no cost, please! I do not sell bulbs, and these have been worked up from a small handful that I was given many many years ago in the North, by a man who thought them *Merine sarniense*! They are hardy in Washington, D. C. If you do not want them do not hesitate to say so!

Thank you for all your help.

Cordially,

B. Y. Morrison

WYNDHAM HAYWARD
Lakemont Gardens
915 South Lakemont
Winter Park, Florida, U.S.A.

8/15/60

Mr. B. Y. Morrison,
Pass Christian, Miss.

Dear Mr. Morrison,

I am glad you have that Panama zephyranthes, and to know it "does" outdoors with you there... here it frosts severely when left outdoors at least in a pot, and suffers the following season. It is about the nicest little bulb that I have found in 30 years of plant hunting, for its size. It is apparently a new species. I have not had the definite word as yet from Prof. Nelson as to where and how he procured it... whether as a cultivar(?) or a pure wildling... but my guess it is a form that has been in cultivation many many years perhaps hundreds, and has apparently lost the power to seed ordinarily, doubtless due to multiplication by division in gardens for so long a time. Some plants tend to do that I believe. Might be an aberrant chromosome type of course like the common large pink *Z. grandiflora*.

You may recall that Traub placed the *Cooperias* under *Zephyranthes* as a sub-genus because they cross with the *Zephs* some years back for classification reasons, but nobody has taken that seriously for horticultural reasons so far. Possibly Giridlian listed his "*Z. smalli*" under *Zeph.* for that reason. He is a stubborn character sometimes as to nomenclature which is all right too. Moore at Cornell is being very stubborn about accepting the revision of *Hippeastrum* back to *Amaryllis*... incidentally, which I think is kowtowing to Kew influence. He visited Sealy at Kew just before he reviewed Traub's book on *Amaryllis* last year and got a rave review from Sealy at Kew for his *Gesneriad* book..... you scratch my back... I hear he is doc for the post as director of Bailey Hort. How do you like a dedicated biologist like L going to his library post at Carnegie Tech! Carnegie Tech of all places for a botanical-horticultural library! I hear the salary is larger and one scientist I heard said he guess it showed that L was dedicated all right... dedicated to the advancement of L. financially, although that may be unkind. Bailey had accepted the now revised nomenclature for *Amaryllis* in his *Manual of Cultivated Plants* late in the 40's and now the boys at B.H. have an idea they want to change it back. You may know they tried to "conserve" *Hippeastrum* at one of the recent Botanical Congresses (Herbert's name for the genus *Amaryllis*). The catch came when it was found that in conserving the genus name *Hippeastrum* over the original *Amaryllis*, they would have to retain the old species name *belladonna*... so they would have the anomaly *Hippeastrum belladonna*, instead of *H. equestre*... which suited nobody! I think there is some kind of grim humor in that!

Your description of the inflorescence on your *Curcuma* sound more than a little like the familiar *C. petiolata* or *Hidden Lily*. I will let you know. The inflorescence on this is "terminal", even if it comes out way down in the leaf central sheath. *C. longax* according to the latest descriptions of the flower (as *C. domestica*) has a white topknot or "coma" as they call it. maybe speckles with small brown dots or in *Holttum*, *Zingiberaceae* of the ~~Malay~~ Malay Peninsula, white with greenish streaks.

I have a feeling that *Lycoris* bulbs do not bloom until they split after once blooming, if you have plenty of rain the *Curcuma* roots etc should grow all right there, if not covered too deeply. I imagine Dr. Howard or Mrs. Clint would have the *Z. longifolia* or *pulchella* or Miss Willie May Kell? these are valued correspondents and cooperators in Texas you must know. I can send the addresses. The *curcumas* that bloom from the rhizome usually bloom in the spring by the way. Do you have our "lubber" hopper? *Xyris* spp.

Wyndham Hayward

I saw an article recently about an azalea expert who had gone to the Far East for some species!

WYNDHAM HAYWARD
Lakemont Gardens
915 South Lakemont
Winter Park, Florida, U. S. A.

8/8/60

Mr. B. Y. Morrison,
Route 1, Box 24,
Pass Christian, Miss.

Dear Mr. Morrison,

I received your second \$25.00 check and have placed this amount to your credit in addition to the small balance due you on your first order. I will be glad to have your orders in due time against this amount.

I was interested to receive in almost the same mail, word from Mrs. U. B. Evans at Ferriday, La. and Dr. Thad M. Howard, San Antonio, Texas, that bulbs of *Lycoris houdyshellii* which I sent them last year, have bloomed for them successfully, this season already, so this must be an easy-bloomer, so to speak! It does not bloom often or well here, but that is the difficulty culturally it experiences with my usual neglect. I wish I could do better. I have only a handful of the *L. Houdyshellii* bulbs left, and intend to take better care of them from now on of course. I had 100 bulbs in all, 12 years ago, received from Shanghai as "*L. alba*" and sold about 75 of them as *L. alba*, before realizing that we have something new and different here!

The *Curcuma* roots came today. They look something different from our *C. petiolata*, maybe in the color of the rhizome, too. You may have the true "*C. longa*" (*C. domestica*) whatever it is. When does it bloom, and is the bloom terminal or from the rhizome? *C. petiolata* comes from the leaf stem, terminal but way down in the plant so the ladies call it "Hidden Lily". It has lovely pink, orchid-pink bracts. Let me know when yours bloom, if you will be so kind as I rather doubt if these will bloom this year even with good care after such transplanting, although they seem to be in very good shape. We had so much rain the ground is quite moist. *C. petiolata* grows on both high and low types of ground here.

I have a grower who supplies me with some *Zephyranthes* here who grows all his bulbs in his yard, in the open under light shade of trees. The species *Z. macrosiphon* is of course not very macro, but then I have always wondered at *Crinum giganteum*... it is really not so large as others, some others anyway! Not nearly as big as *C. asiaticum*!

I have that *Tricyrtis* from the USDA, I guess it is really *T. formosana* as they think. Mine is quite blueish, while my old type that was sent you is longer stemmed and purple on white. I just received last month five little plants of *T. flava*... but four have died yet one remains. If it grows and multiplies you can have some, or I can give you a lady's address in San Antonio who knows who has it there.

Maybe you got some other species of *Tricyrtis* in view of the above. Many of those PI numbers are mixed. Last year Creech sent out *Alpinia kumatake* and *Alpinia chinensis*... when they bloomed this year they seem to be the same thing, with more rosy tinting on one lip. Dr. Meyer thinks they may be *A. intermedia*! What a come-down. But there are 200 species of *Alpinia*, and nobody is an expert on them so it is still one of those things. I believe these *Alpinias* would do with you. P. I. Nos. 235496 and 237837. Fine! Yes, my light bluish-gray *Tricyrtis* is same number as yours, 236019.

The *Curcuma* roots were fresh as a daisy, one day from Miss! I am surprised that you can bloom *L. squam* so well there. Otherwise the Gulf Coast is not so different from our climate here.

My *Curcuma petiolata* grows 3 to 4 feet tall here in rich fertile place. *Zephos* ought not to want boneseal, most of them, as they are rather acid-loving plants, mildly here. Only a few species do not thrive, *Z. bisolia*, *Z. pulchella*, and *Z. longifolia*. Have you the tiny Panama *Zephyranthes* that Prof. Nelson brought back on his 1954 trip? Very cute and pretty but might be too tender to do in the ground there. Yrs sincerely, Wyndham Hayward

WYNDHAM HAYWARD
Lakemont Gardens
915 South Lakemont
Winter Park, Florida, U. S. A.

7/12/60

Mr. B. Y. Morrison,
Route 1, Box 24,
Pass Christian, Miss.

Dear Mr. Morrison,

Thank you for your additional and helpful information in yours of the 7th and I am sending two parcels with most of your material at this time under separate cover, parcel post special handling.

In the larger parcel:

1 Lycoris houdyshelii (no charge, we have none of this for sale this season, too short of stock, sending this as missionary effort)	
1 Lycoris caldwelli	3.00
6 Zephyranthes insularum	.75
6 Zeph. macrosiphon @ 35¢	2.10
6 Narcissus Grand Monarque	.75
1 Gloriosa Carsoni large blooming size	2.00
1 Gloriosa Verschuurii, small blooming size, largest available	3.00
3 Tricyrtis formosana @ 1.50	4.50
1 Crinum Hybrid Cecil Houdyshel, large size	2.50
1 Crinum Hybrid Louis Besanquet large size	2.50

In the second parcel (smaller)

3 Curcuma petiolata (convoluted tuberous roots) @ \$2	6.00
2 Curcuma latifolia (growing shoots, plant at once) special @ 1.00	2.00

29.10

End of Season discount

9.10

NET

20.00 PAID

LATER-- Achimenes collection--

Credit \$5.00.....

Be sure to get the Tricyrtis, and the Curcuma latifolia roots planted at once or set in water until you do plant, they must be set out at once. The Curcuma latifolia roots in the garden (similarly the C. petiolata) and I suggest the Tricyrtis in a tin can or 6 inch pot at least until well established and safely multiplying. This establishing is the main thing. Keep in part shade until safely growing again. They are not always easy to grow well until established. When well started you can't get rid of them. I recently had five nice roots of the Tricyrtis flava from a Texas lady, only one of them lived! This is a rare yellow one. I have a bluer phase of T. formosana from the USDA, suggest you ask them for a root "if you are on their list". I have only a few plants yet, but it is very pretty in bloom. Mine is just as pretty however.

Your Zeph. simpsoni is probably Z. insularum. Z. sulphurea is surely Z. citrina. I trust you have followed the work of Mrs. Clint and Dr. Howard the young vet of San Antonio in recent Herbertias, on these miniatures.

I am returning the second check for \$25 as it is not necessary at this time as you still have a credit of \$5.00 which will do all right to start on some Achimenes and Curcumas next season. I have three others to grow in the garden, unidentified, and hot as happy discoveries as C. zedoaria and C. latifolia which are gems. Then there is Curcuma roseocana, which is a gem of a pot plant. Does not do well in the ground. Do you know the Kaempferias? You should try them. Thanks and Yours sincerely, Wyndham Hayward

let me know about the Achimenes

8/24 return
check 7/15/60

W. Hayward

WYNDHAM HAYWARD

Lakemont Gardens
915 South Lakemont
Winter Park, Florida, U. S. A.

7/16/30

Mr. B. Y. Morrison,
Pass Christian, Miss.

Dear Mr. Morrison,

I hope you are a fishing fanatic, as I hear the fishing is wonderful around your country? I don't have time for it myself though we have fine fishing in Florida. One needs the break. Fishing break, at least.

Yours of the 15th here and I sent the invoice a day or so ago. Glad things came through in good shape and trust they do well now that rains have come. I cannot understand how you could have had dry weather there with all the rains we have had, too many by far, half drowned out some of my Achimenes flats right after planting.

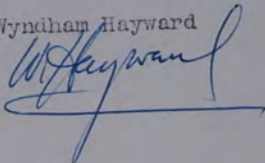
If your Curcuma makes strong root stems this time of year, and you have the time, I would appreciate two or three of the stems like those of Curcuma latifolia that I sent. They will start again easily in a few days if planted right away. This refers to your kind offer ancient the Curcuma Hidden Lily that you grow and think may be distinct from ours here. I think it is probably the same thing, only you have a better richer soil there. Remember Fla. is just sand and a little peat and muck in pockets.

Interestingly enough I am growing one root of Curcuma "longa" or domestica, from Hawaii this summer that the Foster Botanical Garden sent me, collected in the world, there it is an ethnic plant ~~there~~ like the Tacca ~~xxxxxxx~~ brought in by the ancient Polynesians who carried it along their voyages it is believed with the pig, dog, chicken, taro and Tacca tubers! I aim to grow and bloom this, it is doing all right so far, and check is in time against the botanical verities! Oh, add the banana to the dog, chicken and pig, too. There ought to be a little item for the NHM some time along this stuff.

I have a plant of Tacca Hawaiiensis, another of these ethnic plants, no doubt brought with the ancient Polynesian navigators across the Pacific to Hawaii where it has evolved into a varietal form of the South Seas type of this "Arrowroot Flour" plant. I am growing it in an 8 inch pot on my front porch and it attracts attention from every visitor, with its striking big leaves, 24 inches tall, like an Amorphophallus. It surely has a good chance for a future as an ornamental here with people who like unusual tubers. I will send you a tuber for free next spring if you will remind me then. I paid a Jap nurseryman at Hilo \$15.00 to go up in the foothills and find a few tubers at some old native settlement site, long abandoned. This is the kind of more in horticulture that I find interesting.

Wrap the roots in some damp moss in waxed paper to keep them damp and they should come through fine. Can I repay you?
Yours sincerely,

Wyndham Hayward



Don't send the stems now
unless you have plenty
to spare!

WYNDHAM HAYWARD
Lakemont Gardens
915 South Lakemont
Winter Park, Florida, U. S. A.

7/5/60

Mr. B. Y. Morrison,
Route 1, Box 24,
Pass Christian, Miss.

Dear Mr. Morrison,

Your letter of the 29th with the \$25.00 check and the somewhat indefinite bulb order is here. I issued a little folder of my material last season, and will send it with this, and I wish you would look it over. I have some things in addition like various Southern type Narcissus, Silver Chimes, Grand Monarque, Paper Whites, Campernelle Jonquils, etc as well as *Leucojum aestivum* and *L. aes. var. Gravetye Giant*, both of which do well down here and should be okay with you there.

I doubt if the *Curcuma* you have is *C. longa*. I have not been able to find the allegedly true "*C. Longa*" in cultivation, at least in this country, but we have five or six other *Curcumas*. The one with the chocolate stripe on the mid-rib is probably our *C. zedoaria*, an old drug plant. The other day in a local package store I saw an Italian wine tonic with several herbs in the formula, and one of these was *zedoary*! (a stomachic, no doubt, formerly used as herb medicine see *zedoary* in the Century Dictionary, for one place.)

I have been unable to locate even through the USDA plant introduction service the true roots of the commercial *Curcuma longa*. Is Dr. Creech the man I should write about this as I want to get the same very much. I mean the true plant from which comes turmeric and has other uses in Eastern cookery, I believe it is one of the major ingredients of curry powder.

There is a confusion as to what Linnaeus meant as to *C. longa*, of course, and some have held it is not the *Curcuma* now grown for the spice Turmeric. You know this kind of confusion. *Curcumas* do well here and probably would do well with you there. There is one Blue species listed! Must be 50 species or more in all!

I will send you a representative collection of *Lycoris* in a few days. Also a few *Curcumas* that may be still available. It would save you a season to get them established. The *Lycoris* are sensitive things here, and some may be with you there, although I understand that the true *L. aurca* ^{hand L. radiata} does well around the Gulf Coast there.

I feel you will do well to get yourself well started in *Zephyranthes* and related tiny bulbs--I was much hurt by Miss Lawrence's utter and shameful superficial account of these in her *Small Bulbs* book...there are a horde of *Zephyranthes* aficionados over growing in number now. I had an order for \$30.00 worth of *Zephyranthes* alone for a Savannah garden this week! They are offering them by the 100,000 from Indian nurseries! those boys around Kalimpong that advertise so much.

We much have 25 species of *Zephyranthes* available and now there are the new *Cooperia-Zephyranthes* (*Cooperanthes*) hybrids coming along, several growers doing them originally crossed in India. I will send a few. I will give you a good break price-wise as a true missionary effort. *Achimenes* are now in growth mostly. Are you sufficient of a dirt gardener to want plants of these at this time to plant in pots or baskets? Some few of my women customers would rather start them from plants.

As otherwise I believe it would be best to wait until next spring for the Achimenes, say a \$5. collection of 15 v~~er~~s then. Maybe I can send a few plants now to give you a start. They do very well in hanging baskets or pots or window or porch boxes. Heavy rains are hard for them at first. Yet they grow better out in the rains than under glass or complete shelter, the same with zephyranthes.

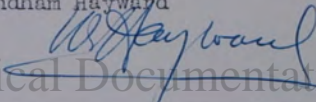
Do you want the tougher, more foolproof things? Some of the Zephyranthes etc and Lycoris are more sensitive, want better culture to do well? In other words you can't just plant them in the garden and forget them, ... unless you have just the right situation. Mrs. Evans at Ferriday, La., whom you know doubtless, plants things "out in the yard" and they succeed, but she must have a fabulous location. I have to take care of things here!

Incidentally, the chocolate stripe on the leaves of the Curcumas is a well known botanical descriptive item. You may have the plain green-leaved species there, which we call C. petiolata (or the orchid-pink ginger), blooms in late summer with a pink-tinted cone of bracts. Curcumas are two types, some bloom in spring, with lateral cone spikes from the ground, some in late summer with spikes terminal (in the center of the foliage). In C. petiolata the spike is so low, however that it is known as "Hidden Lily" by the women garden clubbers from San Antonio to Savannah.

Please look over the list and if there are any special things or instructions, let me know soon as may be. Or I can work the order out as I consider best for your interests in the plants! I promise to be reasonably generous and to give you an interesting deal.

Yours sincerely,

Wyndham Hayward



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PS I was amused the other day to get a phone call from the garden editor of American Home or some such magazine ~~the other day~~ in NYC about an article on Amaryllis that he wants... said he had contacted Dr. Traub in LaJolla and had looked him up, and found he must be about 70! and they really wanted something by a younger man....