Recd Jan 20th
Ans. Febr. 5th

Cambridge 4th Jany. 1845 –

Dear Doctor

Your favor of the 6th Decr – duly reached me – and the parcel of plants and seeds came the very same day! I have notified Hooker of the enclosed parcel of seeds for him, and shall forward it by the next steamer.

If Lund Beinner will only send his other collection we can go on. His interests would be best secured by not distributing so small a set as those now in my hands. – it is so difficult to collect small sums, – and so many of the plants in ~~the~~ the former package are common both at the north and south. – and so large a part of those that are not common were in Drummond's set. Why has he not done much more the last two years? I hope the sets you are expecting will swell the list to a goodly number.

I hope he will soon be collecting in Western Texas. – and collect largely. You can, if you choose, commence the distribution of sets by numbers, a little in

1845 Jan. 4th
" 20th
Feb. 5th
A Gray
Cambridge

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advance of publication.

I had already arranged a pretty good figure of Consecutia Gronovii from Chinsy.

Dr. Torrey has just been making me a flying visit, we looked over your parcel together, and I gave him one specimen, as you directed, of the very striking and curious Asclepias Lindheimeri.

Vol IX of DC. prodr. is not yet published, by the last accounts.

I can have some sets of Geyer's plants sent to Putnam at London — and apprise Hooker of it.

I am very busy, as you may well imagine; but soon after the parcel from Lindheimer reaches me I shall hope to do justice to it.

~~I am~~

I am sorry that Geyer has proved so dishonest. — Yours very cordially

A Gray

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Ans Febr 17th 44
Ans Febr 20th
March 5th

Monday 3rd February, 1845

My Dear Doctor

Your letter of the 12th January reached me a little more than a week since. The parcels by Kinn, arrived on Thursday last, and on Saturday, I sent the seeds with the parcel before sent me — to Hooker by the steamer. I am glad indeed to hear that Lindheimer is going farther into the interior — when I trust many of his plants will have no Latin names till we christen them. You must have received my last letter soon after you despatched yours. I really think that Lindheimer's interest is best subserved by our keeping back the sets until the number becomes considerable (I wonder he has not collected more, up to this time), and there is more and more of singular and new genera. A few new Genera will carry off a good many common plants. — and there are so many plants on sale, that only good, very good collections take well. As he gets more and more in the interior the species will be fewer like Drummond's, and like those of the Southern United States generally

At the same time the necessity of having tabulated returns must be looked at. I was looking at what was best in the long run.

When I set my self fairly at it, it will not take long to prepare the account for publication. You prepare the numbers so that there is not any confusion on that score. I wish that the account should do us credit as botanists — and you know how many points I shall have to investigate — how many books & to consult. Miss Bentham has lately been making some Ostoracaceous genera from California — and has referred some Texan species to them. I must look after these, & & & — (I cultivated the Euphorbia hirta in the garden last season. I really fear it is only a var. of E. maculata.). Well you can get the numbers arranged, and the sets distributed. Those to go abroad — the greatest number — you will hardly get to New York before March. perhaps before April. My hands are full as possible till April 1st — Then, if life and health continue, I will take them up, — will prepare the account, and will have it printed by the 1st of May for the

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July no of Silliman. But I will have our extra copies — by special arrangement (and with a particular title page "Plantæ Lindheimeranæ fs.") delivered to me on the first of May, or thereabouts, and distributed, so that they will follow the sets, by the next steamer nearly. — So that there will not be the slightest danger of any one taking them up before us. — As Lindheimer goes on, and gets plants more unlike Drummond's, you will have subscribers from those generally who have had Drummond's. In this first distribution I would suggest that, if the whole number were to come out some fraction of hundreds — say ~~450, or~~ 430, to present ~~want~~ the odd numbers — and count them at 400, since there are so many that are common U. S. plants. — I think it would be for Lindheimer's pecuniary interest, but as you think best.

If we succeed in raising some more for our Garden this winter — as I have some hopes. I shall be very glad to offer a small pension to Lindheimer for seeds. If not, though I should like to do something, I must probably do it from my own pocket. The prep of Algarobia — is no doubt, as you say, derived from the very parenchyma of the carpel.

I am glad you have had Geyer's plants sent to Hooker. I have taken two sets of them. I don't if W. P. have sold any other. Lindheimer ought to collect very largely where he now is — and send you many thousands of specimens by August next. I assume you will despatch the account of his first coll. in Spic.

When he gets well again, he will do better.
Sullivant of Columbus is a subscriber, is he not?
You can send directly to him. If Ludheimer
will collect Moses for him he will pay
him handsomely.

I remain
Very truly Yours
A. Gray

Dr Engelmann
St Louis
Missouri

25

Paid

Mr. A. Gray
Cambridge
Mass.
Dec 3 1845

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GEORGE ENGELMANN PAPERS

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Rec'd April 2
Ans May 13th

Cambridge March 22d. 1845.

My Dear Sir

Yours of Feb 22d. & March 6. duly reached me. (of Boston) B. D. Greene Esq. gives me his name as a subscriber to Lindheimer's Collections (though he has Drummond's); and I write this hurried note principally to say that I wish you to send a set for him as soon as you can safely & without very great expense. You can send it to me; and I will follow ~~the~~ numbering in the arrangement for publication, as I think various alterations have been made in that. Will the no.s in the sets now correspond with that in your present letters?

You see something of the amount of labor that situated as I am, I am obliged to take. For instance in Acanthaceæ, Torrey & myself have been recording observations, notes &c — on the American species, and waiting until we could make a good & thorough study altogether to decide upon what we should consider good genera — &c. — &c of other families. This labor I must now do in anticipation. I shall keep the published account down within moderate bounds — rather condensed, that we may get it all in the forthcoming number (Aug.) of Silliman

1845 March 22 Dr. Gray Cambridge
Rec'd April 13th

If I succeed in raising Brasenia and other new genera, I shall have drawings made — and I hope I shall be able to publish plates in the autumn. — a sort of Plantæ Ravinesianæ Bot. Hort. Cantab.

I shall now soon be able to take up the plants for study.

The new Post-Office law will be a grand thing for us.

Dr. Wyman, a fine comparative anatomist wished to go with Fremont, and that would have appointed him. But Fremont would take instead a Dr. McDowell of Virginia, who I suppose knows nothing. Torrey urged him to take a botanical collector or botanist. He would not!

Yours truly

A. Gray

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Rec'd May 28th
Ans. June 11th

Cambridge 17 May 1846.

My Dear Doctor.

I have been interrupted in my study of Pl. Lindheimerianae by the arrival of 6 cases of plants from England, and the cares consequent upon a severe drought, which now, thank God, is over. I will now go on with them. Your box reached me a week ago. I shall have most of the Cacti. — The enclosed for Hooker went in the steamer yesterday. I suppose it was for him, as it was not marked. — I did not open it.

I had noticed your mistake about Tragia (your non Trago-ceton) It is the Aphora, Nutt. fl. Arkans. Terr. (Amus Phil. Soc.).

If Silliman begrudges the room which our paper will occupy (and I must keep down the notes brief as may be, — perhaps I shall print in the Jour. Nat. Hist. Soc. here — which is open to us. — In any case I will be in print next month, and will have plenty of copies for wide distribution. In Nat. Hist. Soc. we can have some plates if we wish hereafter.

The 9th vol. of S.C. has come. Your copy is sent by W. P. through E. S. T. Poppe. I have told W. P. to send your Geyer collections to London, and to appoint me when sent that I may notify Hooker.

Many of the Texan seeds are esp. among them Palafoxia Hookeriana — which will be very showy in cultivation, and which I shall perhaps figure.

Oakes has written you, I trust, ere this for a set of Lindheimer plants — he told me he would.

Next winter I hope to be able to offer Lindheimer something for our Garden. I write in haste — for collecting seeds (~~plants~~ and shrubs) to let you know I am

nothing. ~~[illegible]~~ go ahead. Lindheimer ought to make admirable collections ~~such~~ this summer. It is very desirable he should.

I send a few notes I had made as I passed on — Thanks for the printed tickets!

Hastily.

Yours truly

A. Gray

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Obs. — Pl. Lindheimeriana —

No. 1. R. Texanus Engelm.

2 " trachyspermus ? — the name is preoccupied by Fischer.
I change it to R. trachyspermus.

3. B. angustifolius & V.? (an spec.) Lindheimeri. — characters all copied as you give them

3 (bis) = Clematis Pitcheri, Torr. Hbr.

4 C. cylindrica var.

5. C. reticulata — — and so on —

No. 9. "Cristatella Lamesii" = C. erosa.

24. Sida Lindheimeri, n. sp. good. (S. heterocarpa I pass by till you send it.)

35. Psoralea ...

Decomanthus? the rows in with Acacia (Neptunia) lutea is that plant in print, no doubt.

52. "Lythrum foliosum" = L. lanceolatum Ell. I have seen every sort of intermediate form between it and L. alatum!

53. R. thomatipetala (R. bifoms as figd. has rounded petals.

58. L. intermedia. I can only make L. linearis var. Southern forms

eak it down. the characters shade off.

Your Gaura purpurea = G. Drummondii!

G. exaltata — western form of Gaura filipes (B. major, Torr.

The others it is better not to publish till we get specimens anew from L.. They would be too apt to turn out Spachis species.

Gaura Lindheimeri, is Spachis G. tripetala from Texas, no doubt. — but besides the ~~tetramerous~~ flowers (sometimes!) — the fruit & petals are different from Cavanilles original figure.

I doubt greatly your Psoralea Lindheimeri, but am going to compare it with original specimens of Ps. rhombifolia on Sept. B. D. Greene. —

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25

Dr. George Engelmann

St. Louis

Missouri

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Rec'd July 17th 1895
Ans Aug 22

July 4. Cambridge —

Dear Doctor.

I have waited before replying to your letter of the 9th June, until the new Post-Office law should come into operation, and also until the sets of Lathyrus plants, daily expected, should arrive. Some time ago I got a bill of lading of a box by a New Orleans ship, which I supposed was yours. But two days ago it came, and proved to be something else. How was your box sent? My what ship from New Orleans? I want to see the sets before I send my MSS. to the Printer. I want also the continuation of the labels — which you sent me only for the 1st collection. I like the labels very well, except I think them almost too large. The enclosed sheet I have gradually filled with notes, of more or less interest. I will print in the Botan. Journal of Natural History; and get a large number of extra copies at small expense. I shall go to press now very soon, as I am just done with College work for the season. Opuntia fragilis proteseems to a var. of reduce you. and then add all the others in a note on your own authority. I have a small plant of O. ~~ff~~ Cactus Missouriensis and also O. fragilis, which when I asked for the Gardener was unable to find. If we find it, and it grows sightly I will send ~~it~~ to you a cutting. Yours sent to me are mostly alive. I could send you several; but I fear not such as would interest you — nearly common garden ones, & perhaps not well named.

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I trust Lindheimer will do wonderfully well this year.

You ask how Drummonds specimens compare with Lindheimers. The specimens are better made and dried than Drummonds, but, judging from my own set, are not so copiously distributed. But perhaps yours are full enough for the price. There will be no difficulty in the sale when once in the market, and in considerable quantity.

I hope to receive the sets soon — also soon to send you proofs — I have the rest of the room for Dr. Gray, who is now with me. —

Yours truly
A Gray.

Cambridge, July 5th 1845

My dear Sir —

I am here on a visit, at my friend Dr. Gray's & as he was about sending off a letter, I asked him to reserve a corner for me. As you may well suppose, it is a great treat to work side by side with my old fellow laborer once more. He is very comfortably situated, living in a large house attached to the garden. — I was surprised & disappointed at the return of Mr. Halsted. He came to my house at Princeton last week, & spent several days there. I had anticipated some valuable acquisitions to our Botany from his exploration in the far west. Fremont, however, will collect largely. But what a pity he did not take with him a thorough botanical collector! I believe he has in his company a gardener who can make tolerable drawings — but he ought to have taken with him a person whom I recommended — who expected to join him the first time before the expedition started. The report of his last expedition is not yet published — but it was planned by the right stamp & I have a duplicate of the whole collection till the 2nd Expedition returned. Dr — but concluded to reserve my account of the whole collection till the 2nd Expedition returned.

I see that you continue to work at Euphorbiaceae, & with much success. I have long been interested in this family, & have collected notes on them. Klotzsch has anticipated some of my determinations

but there is much to do still. I wish you could get a copy of Nuttall's Arkans. fl. from the Am. Philos. Trans. Nutt. left some extra copies in Philadelphia — I'd will try & get one of them for you from Dr. Pickering. I thank you for the plants sent by Mr. Walter. The one that interested me most was Adoxa Canad. with white flowers. I had long searched for there without success, but hope to find them this season. Is it possible that this plant can be indigenous to Germany? In glancing over Koch, Pl. Germ. two or three years ago (I do not possess the work), if I remember correctly, he gives an account of it, as one of the native plants of that country — but no other author notices it as an extra-American genus.

Engelmann
Geo.
St. Louis
Mich.

Lower Texas
Bigelow
Pacific R.R.
Frémont
1844

I have some plants for you, which I hope to send by an early opportunity, but I have been so constantly occupied with teaching, & in finishing my N. York Flora, that it has been out of my power to make up a large collection for you. It always gives me much pleasure to hear from you, especially to receive your critical notices of plants belonging to some of my favorite families. Believe me ever, cordially yours, John Torrey

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303. E. nebulosa, n. sp. = only a var. of E. magnifica. I have the seeds of the cultiv. plant which are tuberculate. It holds pretty well the sort. Drummond's Texan coll.

174. E. lineata. I ~~[illegible]~~ to keep as a species.

Recd = Aug 8th
Ans Sept 12th

July 29th 1845

Dear Doctor

Your long expected box of the Texan plants has last. arrived & I have just opened it, and find it all dry and right. I am sorry the numbers fall so rapidly in the sets after nos. 8, & 9. But the second gathering of such species will often replace such plants. The sets for Hooker & his subscribers shall be sent by the sailing steamer of Friday, free of expense, Hooker having the privilege of receiving such things free by Her Majesty's mail packets.

Helianthus praecox, Monarda aristata — and Brazoria arenaria — are now in flower, in the Garden. I think of joining your Brazoria and Stachyptera in one genus distinguished from Physostegia by the bilabiate calyx, being enlarged and closed (in much the same mode in both) in fruit. Both are in Drummond's Texan coll. In that case your Brazoria arenaria must be B. truncata = Physostegia truncata Benth. & the other B. scutellarioides, if you please. I am about to submit them to special examination

I begin to print in a few days, and will send you sheets. In haste Yours,

A. Gray

Dr. Asa Gray

~~Engelmann etc~~

Lindheimer's collections this year should be appreciated in Europe. I propose to aid you in working them up quick. A.G.

Dr. Asa Gray
Cambridge
Mass.

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GEORGE ENGELMANN

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Asclepias glaberrima. had best wait till I see it

Bonplandia lobatus = B. hastatus, Nutt. But that name being pre-occupied, I have proposed yours in a note.

278. Lithospermum Mandanense is not that at which has a very long tube of the corolla, but a Batschia. For the tube is naked & unappendiculate. It resembles L. incisum figured by Hooker, but the tube has a very long tube to the corolla. The fringe almost reaches the [illegible] specimens of this plant is [illegible] (L. brevifloruum). The plant from Brandis as a new species [illegible] L. arguti [illegible] which is near Boston. [illegible] in Drummond's collection.

Penst. Brazos bottom. April. [illegible] distinct. Acrophila phacelioides.

279. Phacelia strictiflora is a good Cutoca (also in Drummond's collection) = Cutoca strictiflora, n. sp.

(At present I incline to follow Bentham and restore the Bossmanthus to Cutoca & Phacelia or put all in one genus.) Therefore

280 P. patuliflora = Cutoca patuliflora, L. 134 Phacelia hirsuta = Cutoca hirsuta.

In former Bonplandia is a specimen of Nutt. alles Ph. glabra = Cutoca glabra. * ^ ^ [illegible] Phacelia Murrayanum.

282. Pentstemon flammeus, n. sp. = P. Murrayanum.

284. Cast. indivisa n. sp. seems to be C. occidentalis, Torr.

285. Hedeoma atriodora n. sp. = H. Drummondii, Benth. this is badly described.

288. Your Physostegia intermedia dilatata n. sp = Dracocephalum intermedium, Nutt.

289. Your Verbena multipartita n. sp. = V. bipinnatifida, Nutt.

292. M. connata = M. perforata, Le Conte, but not really diff.

295. "Rivina laevis" = R. portulacoides, Nutt.

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296. P. cristatum, n. sp. Good.

297. Eriotheca = Eriogonum multiflorum Benth. who has well described it. If, with some others might make a good genus if it was not for all sort of intermediate species which break down all your characters most completely. I have a very full suite in that genus. There are several perennial species which have the outer sepals enlarged, and even spreading in fruit: there are annual which have it not. Some perennial species are described with "stigmata crassiuscula", while my Drummond specimens of your Eriotheca, a little old, have stigmata capitata.

298. Aristolochia reticulata, n. sp. = A. reticulata Nutt.

300. Euphorbia parvifolia n. sp. = E. hermianoides, Nutt, who has well described it. (E. oblongifolia not being distinctly and no specimens sent. I think I had best pass it by for the present. Perhaps Lindheimer will collect it in quantity.)

E. Geyeri I suspect is the E. polygonifolia of Nuttall (+ Hook.?) who has described our coast plant under the name of E. maritima. Perhaps it had better wait a little, till I can see Hooker's western plants in that. For, if it proves to be the common western one in place of E. polygonifolia, it ought rather to bear Geyer's name.* We will leave this set for future remark, since you

301. E. gracillima n. sp. is E. arenaria, Nutt. l. c.!

302.

* On consideration, I resume it for you in a note.

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Rec^d Sept 5th
Ans Sept 12th

Cambridge Aug. 22 –

Stenocardia multiflora Torr. = St. Texana. I have near a fragment of Torrey's specimen, and have fully compared them.

The plant near Fraxinus is F. Pennsylvanica var. lanceolata. It must be compared with Torr. specimens — is unknown — Pisptolepis, Watt. which I have specimens of. Since Lindheimer's attention to it.

The elm is Ulmus crassifolia, Nutt. Suppl. to Michx.

No. 178. Urtica gracilis. = U. purpurascens, Nutt.

Also in Texas. Hyps. purpurea = H. tort. of Smith. & Chan.

Also in Texas. Amaranthus Lindheimeri. = A. Texanus. Gray.

314. Amaranthus. Nees, in Lehmann 1842, has reduced Acanthaceae, our Ruellias, to Dipteracanthus, putting down under it Calophanes, Don. He would therefore include Dizygandra. This reduces the genus to some sense. Dipteracanthus was established in Wahl. Fl. Ind. Occiden. not in Lindl. Introd. as Endlicher wrongly states.

Gray 158 = Dipteracanthus ciliosus, Nees. l. c. 159 is a new sp. D. (Paniculata) nudiflorus, also in Drummond. 159 + 297 — I mean to keep up the old genus Dianthera with gen. char. I find

160. Dicliptera bractiata. agrees well; but one of them usually often 2 seeds in each cell; but one usually. Nutt. also has given a full character imperfect.

" 290 Meophanes must also be reduced to Dipteracanthus. Nees has Brazilian & Indian species with a small corolla shorter than the calyx; make a section = Dipteracanthus (Meiophanes) micranthus, n. sp.

Dicsandra, is a plant we have long known. It is Ruellia justiciaflora, Hook. in Comp. Bot. mag. 1. p. 176. N. Ol. Lindheimer & Drummond.

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It has been distributed by Dr Riddell, some years ago, with lithographed labels as a new gen. Eberlea — a name one might in courtesy be obliged to adopt, tho' Dr. Eberle does not merit a genus. But there is no necessity for this, as I am confident it is a Hygrophila, and quite accords with the other species of that genus in habit also. I make a note about it. The only thing in the way is that the other species seem all to belong to the Eastern world.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN

Greene's no. 5. is a specimen of what I had taken for Blepharis Pitcheri, but with very spiny fruit, which leaves little doubt it is C. Floridanus — I let all pass therefore under no. 5, without comment.

I find, just after the Ranunculi in Greene's collection, a gathering, putting aside the specimen, to drop the confusion, and we need then no longer hesitate, &c. &c. to drop the gathering, not in flower, but in fruit, and in fact the same as Greene's no. 5.

35. Phaalea Lindheimeri. It contains two plants of Drummond's described as P. monticola. Let what will be the other (which I have no specimen of) the plant in Greene's set has marks of the peduncules decidedly longer than the leaves. I have seen no fruit: I should like to have fruit.

Eglates ~~Arkansas~~ Texana — is only P. Arkansana. I find good styles in the central (infertile) flowers in the plants now blossoming in the garden.

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2.7. Gordonia pauciflora. Hooker's remarks about it are well founded. There is a G. pauciflora, however, in DC. Prod. I suppose we call our G. cyanocarpa. Hooker also in Fremont's Rept. 2 times over.

Acalypha virginica. This has been before to us, and has a wide range. I believe Torrey has quoted it for his Newyork report (unpublished as yet).

Lithospermum canescens. I have now seen a specimen of Hooker's plant — I am right, and Torrey quite wrong. —

Aug. 11. —

I have this moment received Berthier's Mss. of Sempl. the American part of that for Candolle. — It appears to be very well done.

Pg. 139 = B. elongata Swartz.

Cassania multifida is referred to Cowdrea

Geranium spiciflora = G. maritima B. grandiflora. (But I 141. keep up your name, as Berth. quotes it as a syn.

284. Castelleia indivisa. Eudn. he keeps & describes — Hooker does not appear to have compared it with C. occidentalis Torr. I copy his character.

Your "Hypericum pinetorum" Hale, non Ell. is H. antigua, Beyrich, I suppose. — I have it from Texas, Wright.

Manillaria sulcata is now in flower with me. My artist, Mr. Sprague, has five plants of M. vivipara, Mutt. which he gathered up the Missouri. He will buy them to me, and I will send you off-shoots.

N. B. I send you an offshoot from M. vivipara — It has red-flowers — Jones is a really new species.

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I find trouble with Oxybaphus.
Your O. nyctaginea from St. Louis is near that sp.
but appears different, perhaps only a variety. I cannot
now investigate them minutely.
1.2.4.3. I think is only Allionia ovata, Pursh (A. pilosa,
Nutt.) – with bad specimens. I have it from Texas, Mexico
more handsome than yours.

Printed sheets in a few days.

Rev. Sept. 22
Cambridge
Mass.

No. 72. Lactuca muricata. The specimen in the set sent me is L. muricata, Jor. & Hr. ~~DC.~~ (marked not marked August.) But the specimen previously sent me (marked Sept. 1848) is the real L. muricata DC. Heads & flowers not larger than in L. tenuifolia and Pursh. — Which of these scales and achenes actually distributed in the set? I have taken for granted the former — which we will call L. acidota — giving the diagnoses of the two. (Correct me if wrong, or if both are distributed.) Then 73 = L. acidota β. vernalis. — 96. A. L. spinosa. 97. A. vernalis in one place. A. ~~lepticulatus~~ precaps in another. I have used the latter name, (as you suggest) 111. Eglites Texana. I cannot make diff from E. Arkansana. The other, which is merely Cusenta a syncarpa is added in a note.

E. compacta. Choisy solv added with remarks. 130. Phaca Lonchocarpus is a synonym (as you suggest) for Brom. Lam. the circle as yours must be. 133. Astragalus pinnatifid. A. incurvatus Sw. 134. Phacelia ciliata n. sp. = P. tenuis Torr. Ang. (No. 40 S. W. Mississippi) 141. "Pentstemon digitalis" = P. cobaea, Butt. — P. digitalis is white flower the same. 142. Physostegia virginiana. Butt. (specimen) Prim. expect full nuts on all Benth. Bros. has Butt. The Brazoria = Physostegia constructa. Butt. (specimen) I wonder he did not make a genus of it. as the best good point was seed as flower. I am going to examine it now. —

143. Scutellaria Lindheimeri = S. Drummondii, Benth. ex Hooker, but "Scutellaria Lindheimeri" = S. Drummondii Dieras Coll. but S. cardiophylla n. sp. 144. Brittonia has no where noticed Dr. A. Gray's publication of specimens elsewhere. What Buttam has in Lindheimeriana. 151. Monarda fistulosa, var. Lindheimeriana. You say Gray has not named any part of Walpers which should contain it. Buttam should consider it. a var of M. fistulosa,

Your subgen. of Monada (Pleiomeron) corresponds with Nuttall's subgen. Coryanthus, which founds it on the bifid or emarginate connated upper lip of the corolla as long as the stamens. — His includes M. punctata also. Bentham's generic character is calyx 15-nervous. Rafinesque also made the section Cheilydon long ago, and this Bentham (in suppl.) has adopted!

15 — Your Monada penicillata is exactly M. ainsliata Nutt. at least the Drummond specimens, which alone I have I suspect your "M. ainsliata" n. sp. "from Arkansas" is also Nuttall's "Verbena macrostachya" = V. stricta. Hort. comp. to Bot. Mag. 154 "V. bipinnatifida Nutt." 155 = Bot. Mag., Nov. & V. spuriaeflora

* 167 = Eriogonum longifolium, Nutt. Bentham. (var. with thicker leaves — also collected by Drummond.)

168. Polygonella ericoides = Gonopyrum Americanum Fisch. & Mey. but must be reduced to Polygonella.

171. Croton Lindheimeri can only be a var. of C. (Pilanthophytum) capitatum. The stigmas, especially in Drummond specimens and also in Lindheimer's are often 14–16. — The seeds as large as in a Mexican specimen of C. capitatum, in which the lower leaves are toothed in the same mode. Still I will cite the name to serve it.

305. = Stenocandra Texanus, Klotzsch. = (256. Drummond) — = Croton muricatum, Nutt. l. c.!

(Croton maritimum = Stenocandra maritima, Klotzsch.)

175. Aphora Mercurialana, Nutt. = Serophytum philosiminum. Bentham very happy. But Nuttall's name must stand. The other is his S. Drummondii = or A. Drummondii. A third was taken by Buckley is in Drum. Tex. —

* Your Eriotheca is Eriogonum multiflorum, Bentham.

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185. Hypis scabra. I have no specimen of this. I must wait till the sets come — and then compare with H. tuberosa Smith & H. antigua Brizicki, in Kunth.

186. H. angulosa = H. bulbosa, Kunth. clearly!

188. Stypsis leptocarpa, ~~so appears but the sets will show~~ is only a variety I fear. The specimen you send has some ~~tube~~ capsules oblong-prismatic, (with) six good seeds in a row. — others on the same specimen are as short as those usually are in H. erecta. Author (~~Norton~~) too describes the capsule of erecta as oblong. So I have no doubt that the ovules in leptocarpa are preserved.

189. Moræa? = Nematostylis? purpurea, Herbert in Bot. Mag. tab. no. 1779 (1840) — It is also a species of this genus Alophia (loc. cit.) which name must be adopted. But in naming this and its Texan allies, Herbert has made much confusion and mistakes.* I will straighten the gen. character, and the species as far as we are concerned. The common Texan ~~that~~ and Arkansan Nematostylis is N. geminiflora, Nutt. (N. acuta, Baton): but Nuttall credits also N. caerulea to Arkansas. ~~(Nos.~~ We will not do for this Alophia, after all; the perianth is not unequal enough, the inner segments are not marginulate. We will restore a genus, and call it Eustylis. E. purpurea.

190. Hatardia articulata = H. (~~Stipanthera~~) Moræa, ex char. Nutt. ~~No specimens~~ I cannot by hand or eye, see any. I will compare.

191. Sprenantes. I am afraid of this as a new species.

193. ~~Fad ex~~ I. Peterianus, Nutt.

(Your Alternanthera of Gayes mentioned under 199. are A. stellatum and A. sessiliculatum, Hook. etc.

Dichromena (no number) = D. latifolia var. the other D. leucocephala

205 = Heleocharis cinerea, Torr. MS.

206. Scirpus lacustris — has 2. cleft styles.

207 Spartina (not laevigata). I have ventured to describe it as a new sp. S. juncifornis. Are all the specs. distributed the same?

212 Eragr. pectinata = Poa (Eragr.) capitata, Nutt. in trans. Amer. the subor. masc. plant & 214 (E. radians) = the feminine plant of the same species.

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The queer grass not mentioned from Galveston I have somewhere seen named by Aces from Drummond's specimens. I must find it. If not I will describe it in a note. Torrey and myself have formerly looked at it.

~~217. Vesicaria amicalis~~ and V. Mitteallii. I shall have Torrey's specimens to compare soon.

Algarobia. Interesting indeed! Just what there is an approach to it in Apuleia. For title see my notes upon it soon.

239. Gaura exaltata. I now think a good spec. But it must I think be G. longiflora Spach. It must prove a rare. I have it growing from the seed. It must be G. Pitchiri, Pickering. (and G. biennis B. and Hr.)

Cacti. Just copy from your notes.

Ptero caulon leptostachyum agrees entirely with P. virgatum Ell. Stem simple, but Sim. describes the stem as bearing many simple branches.

281. Helianthus asperrimus n. sp. I must reduce to a mere variety of H. Maximiliani. It is doubtless a stunted form growing in more and places.

Aplopappus linearifolius is very close to A. longicorum which I have just distinct. It is in Drummond's Texan collection. Why did not Delaisne see and describe it.

Hendecandra multiflora Nut. Must on comparison to be just the Texan plant: the flowers no larger than in some Texan specimens.

Rec^d – Octob 4th
Ans Oct 6

Cambridge 23d Sept. 1845.

My Dear Doctor

I have just received your last letter & see it has
copy of the Plantæ Lindheimeriæ & I see it has
grown to 56 pages – although I have condensed
matter. I have got 150 extra copies which
I have to pay extra postage & paper – etc. amounting
to ½ dollars. I will bear a part of this expense. and
will take the set No. 19 of Pl. Lindh. (=190
species) now in my hands if our subscribers soon offers
for it, and account with you for the balance, they
and I hope you will be pleased to the whole matter. I will
Pl. Lindh. pamphlet. This offers collections
have ready to print almost as soon as you send it.
The labor will be for no merit, for surely hereafter.
Lindheimer must get into Western Texas more remote. I may
by the U. S. Army. As we get plants more remote, they
make the subscribers will multiply & appear cheap.
Lindheimer collected more grasses & cyperaceæ
are so easy to dry in larger quantities for sets.
I have distributed by mail the copies you
desired and also to visitors U. S. Botanists. I will
distribute especially abroad – into Germany via Santa
Brown. – also three copies to Brown.
ask for the right Poppe Herb. –
Hooker writes that he has my letter, but
the box containing sets of plants had not yet reached his hands
when he wrote.

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Geyer has reached England, with his collections — about 600 species, to be divided into 24 sets — sold at £12 per hundred. Geyer has begun to give a general account of his journey in the Sept. no. of Hooker's Journal of Botany; and Hooker is to publish with an enumeration & description of the new species. Well, I hope from the proceeds that Geyer means to repay the money you advanced to him. I doubt whether his collections will be worth a very good one. It is necessary I should have it, and I must pulsate the treasury of the pretty. Shall I, or will you? I cannot well afford it. Geyer will now repay his tell Hooker you expect Geyer will now repay his pecuniary obligations to you — though he has formed false ones in every thing else.

Gordon is addressing to go to the Mountains of Santa Fe next year. I suppose the (Mex.) or to be deposited upon his honour. I suppose he is not much worse paid now. Greene has not yet paid me. I need time to recover it, perhaps I need time to recover it. will be required of the Conspiration — Give me a copy of our Conspiration. I must close — Yours very truly

Asa Gray

Mans of Lindheimer — etc

Spiranthes — I adopt S. vernalis, provisionally, but there is a new one of Nuttall in S. States, — another vernal one in the North, — etc. —

Spartina. The tall plant must also be the new one.

I send you some flowers of S. glabra.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN

Hope the specimen of live Mammillaria vivipara came safe to hand in my last letter.

Gilliss has promised to give me a check for his set of plants when he sees me next. How shall I remit to you?

Bigelovia tenuata | S. Mamillaria are beautifully figured!

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MISSOURI BOTANICAL GARDEN

Dr George Engelmann
St. Louis
Missouri

1845
Sept 23
St. Louis
Engelmann

Recd Oct. 12th
Ans Oct 7th

Cambridge Oct. 7. 1845.

My Dear Doctor.

By this time you will have in hand a copy of the Plantæ Lindheimeriana, which I trust will please you. I make to-day a hundred visit to New York, and will ~~send you~~ take to Pease for you — the 19 copies for you — One I have given to Mr. Carey, who will send by mail — with the specimens marked in set 19 which he has just taken and which he asks you to try to furnish hereafter. Asplenium has not yet paid ~~me~~ for his set. I must ask him soon, if he does not hand it to me, and send it to you. I have no sets on hand, but having forwarded all but no. 19 to England. But now after so long delay, Oakes asks to be put down for a set — and Curtis writes enquiring if they can be had. ~~I have~~ I had best, therefore, send me the two best sets that are still on hand. Now that the specimens begin to be seen, and I have distributed the pamphlet largely, they will go off fast. Mr Lindheimer can collect hereafty will go as fast as possible —

John Carey, New York
Mr Oakes Athol, Mass. } must go in for as full sets as possible of all the future distribution

Let Lindheimer to collect Carices — all Cyperaceæ & Grasses

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which he seems to have overlooked. They are the easiest of all to make specimens of.

I send by a Hamburgh ship from New York, the parcel of pamphlets to Prof. Alex. Braun to the care of Röding & Co. Hamburgh of which please apprise Mr. Braun.

Our friend Mr. Carey has lost his whole herbarium in the great fire in New York last summer. In the midst of his afflictions he had nearly given up the hope of ever forming another, but ~~by the~~ assured by the advice of his friends, who have offered to share their duplicates with him, he has concluded to begin again. He has now been with me a week, selecting duplicates from my herbarium for a commencement.

Can you aid him in his emergency, by sending duplicates of ~~North~~ St. Louis and other plants? Write me a real favor if you can.

Your favor of Sept. 13 I will reply to soon making such remarks as may occur.

I remain Yours ever

A Gray

New York. Wednesday Morning.

Dear Doctor.

I sent John Carey to Wiley & Putnam for a set of the Geyer Illinois plants, which you know were advertised for sale at $6. per set — in Silliman's Journal. But W. & P. told him they had got orders from you to sell them at $10. — the set. This, under the circumstances of their having been advertised and partly sold at $6. of course Mr. Carey is not inclined to give. Had you not best send him (or me) an order to deliver a copy of the advertised price?

As to the stock being sent to London, I told Wiley your wish; but they are not sent. — Had you not best write officially to W. & Putnam to send them to Hooker — They will attend to it on a direct order from you —

In haste Yours

Asa Gray

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Missouri Botanical Garden

Dr. Geo. Engelmann
St. Louis
Missouri

NEW YORK
OCT 8
PAID

1845
Oct 7
Dr Geo Engelmann
St Louis
Engelmann

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Recd Dec 22
Ans Dec 7

Cambridge 20 Nov. 1845

By the way, I find that the figure of Physostegia truncata, Hook. Bot. Mag. is really taken from our Brazoria scutellarioides!

The copies of Pk Lindh. I took to Newfork for you were sent by Riley & Putnam in a box packed for W. D. Skillman, St. Louis. Bookseller. and I hope have reached you safely. —

I have a poor specimen of Polygonum cristatum. collected somewhere West by Dr. Leavenworth.

Herbert thought at first he had two or more Coispias, but at length was convinced they were one. I believe only 2 are described. Next year, will take them up, with your notes. Can't say about the little Alisma.

My old sets of Gramineæ & Cyperaceæ are nowhere at all to be had! I have not a set myself.

Hooker is greatly occupied — (I hear from him seldom now) & has probably forgotten about the Cusentas — Write him again. He will be glad to loan you his whole set. The Mammillaria I sent you is no doubt M. vivipara.

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Prof. Lindh.

Question relating to no. 38 — Yes.

" 196. My Cosperias only one flowered, that escaped me.
But I have plantlets from the seed it ripened.

" 203. Cyperus tetragonus has turned up frequently of late.

" 206. There may likely be several plants blended under
Scirpus lacustris. We will see some day.

The transposition of no 286 & 287 was made by the printer. It is rightly stated on p. 47.

1845
A Nov. 20
Dec 2
Dec 7

The tubers of Asclepias Lindheimeri you sent last year were dead when they came.

314. Rather doubtful genus.
315. Eleocharis acicularis it was named by Torrey.

A. Gray
Cambridge

MISSOURI BOTANICAL GARDEN
GERMAN MANUSCRIPTS

I must now break off. Stir up Lindheimer to great activity. I will be ready to study his next envoi right away. I have distributed the copies of the Lindheimer pamphlet very widely both at home & abroad. Yours ever

A Gray

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MISSOURI BOTANICAL GARDEN

Rec. 2 Dec
Ans Dec 7

Cambridge 20. November, 1845.

A. Gray
Cambridge

1845
Novemb 20
Dec 2
Dec 7

My Dear Doctor.

I owe you many apologies for not having attended to this matter before. Greene paid me for his set of Pl. Lindheimer. 3 weeks ago, but a crowd of other matters and one or two things that I wanted to settle before I write to you have prevented till now. Annexed you have a check on the Merchants Bank of Boston, payable to your order, for $33.63. which I dare say will be readily negotiable at St. Louis. It is made up of Greene's $25.63, and the set which Lacey took $15.07, minus your share of the bill for printing and of the expenses of transmission. I am now sorry I did not retain those sets that went abroad, for I have had some applications, and as many are likely to come in as you can supply. Mr. Oakes? I have already written to you about. I hope you can still make up a good set for him. An application from Prof. Cleaveland is still pending. Perhaps, as I have written to him in answer to his enquiries, I shall get his determination in time to go in this letter. Mr. Lowell, a gentleman of wealth here, asked me if he could have a set. All these at any rate will be subscribers for the existing collection, and will take all in that which

have already been distributed in the 1st distribution.

But the point about which I want especially to write is this. As Mr. Lowell expressed a desire to aid in this matter, and as he is a cultivator, keeps a gardener, conservatory, &c. I asked him to eke out our poverty here at the Garden, by joining me in a remittance, and if successful in offering an annual stipend to Lindheimer for sending us seeds, bulbs, Cacti (especially) tubers, and index roots of live herbs & shrubs (Don't forget Mgardia glandulosa!) which with the present & prospective communication between any Texan port and New York or Boston, can be safely & promptly sent. He will do it, and take part of the plants. As soon as Lindheimer will send us something, you may draw on me for $75. If all goes well, I hope hereafter it may be made $100 per annum. And, if we ever get our Garden funds replenished even more so, pray set Lindheimer to work. Let him send seeds, bulbs, and, if he be so that there is little expense of land carriage to vessels for New York or Boston, a box of live plants generally. You point out to him the things most likely to please me. I hope he has made a good collection of dried plants this year. They will now go off promptly. We have broken the ice: so encourage him.

I write in great haste. You will gather my ideas. —

Yours very truly

A. Gray

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec^d Dec 8th
Ans Jan 3d

Cambridge — 27 November —

My Dear Doctor

Thus writes Prof. Cleaveland of Bowdoin College, Maine. I now wish I had kept some of the sets you sent: but no doubt they are sure to sell abroad. Do you hear further of Lindheimer? His next coll. will go right off.

If he is active and judicious in finding bulbs seeds, & live plants. I have great hopes to be able to do more for him in that way — $100 or so per annum.

Hooker writes — by his son — that he will send the set of Texas Reign coll. I subscribed for. I am going to divide with J. Carey. Thank you for your kind offers in his behalf.

Besides Mr. Carey there — the new Lindheimer subscribers are

Mr. Oakes
Mr. John A. Lowell
Prof. P. Cleaveland.

Much occupied
Yours ever.

A Gray

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Missouri Botanical Garden

Dr. Torrey has received the plants collected by Fremont up to Bent's Fort. — has laid out the Compositæ, Onagraceæ &c to send to me for inspection — but I have not got them yet.

A.G.

A. Gray
Cambridge

1845
2. Nov. 27
vi. Dec. 8.
am. Jan. 3.
1846.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN HERBARIUM

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Answd.
to Dr A Gray

Maine

Brunswick Nov. 19, 1841

My dear Sir,

You will please consider me a subscriber for Mr Lindheimer's collection of plants made the past season.

I shall also be glad to receive such Nos. of the previous collection, as can be obtained in good order, even if it should be only 50 specimens.

I suppose the plants collected the last season will not be ready for distribution for some time; but, if any should be obtained from the previous collections, I should like to receive them as early as May next, if convenient.

Inf Cleaveland

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GEORGE ENGELMANN PAPERS

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Rec'd Dec 22d 1845
Ans Jan 3d

Cambridge, 11th December —

Dear Doctor

I forward the enclosed, which has just reached me. I have replied to Mr. Durand — who is an excellent fellow and a very zealous botanist — that if you have some of the first set, you will secure to him a good chance in the forthcoming ones. (which I am anxious to see. the ice is broken, and now we can promptly sell all Lindheimer can collect.) Durand certainly never sent his name to me as a subscriber before.

I trust you got all my former letters, especially that of 21st November, enclosing a check on Merchants Bank Boston for $35 $\frac{63}{100}$ — and promising Lindheimer remittances for live plants, seeds & bulbs. — am very busy.

Stir up Lindheimer and encourage his heart. —

Yours truly

A. Gray

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Dr George Engelmann
St. Louis
Missouri

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