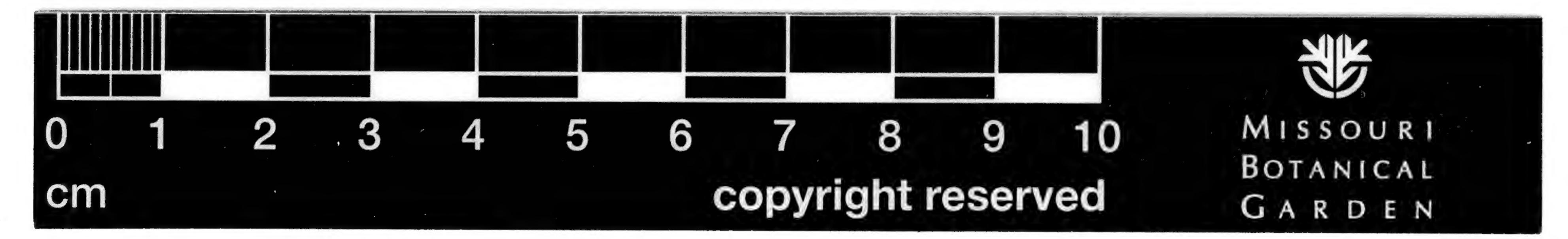
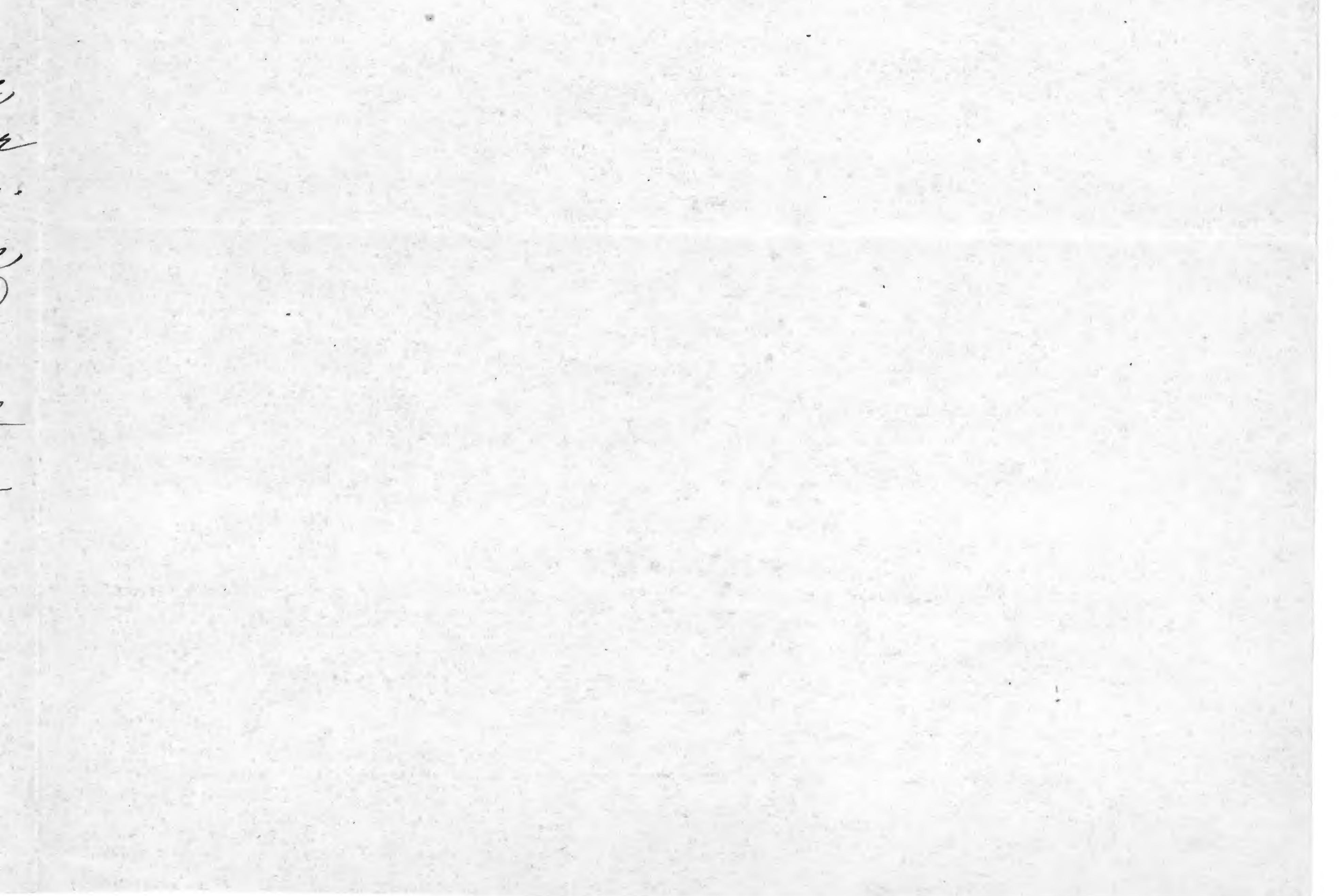
Achefenburg 29 Mail Br. Juchsternes Here! The Angrage betreffs des Abfalleus des Madelu bei vielen Comferen kan ich Sakin beautionter, Sau mis ans des diteratur heine hyghe where his holdsprehe hersache sterer brokermy behave ist. time oberflachliche Untersuchny, sie ich bisher grindlicher fortometjen micht dei't hake, ergab, dans hei Mies ercela an Blakyrunde Sklerenehyngewebe an seke hir wandjes tarenchym grengt. The enkline min sie Sache nim ladurch, dass bein Trochnen seres hinvandje Parenchym schrumpf Das Phlerenchym aber nicht, mid Sahreh Se Freing veranlant wind flyeerin kindert Nere khrumpfung. la ist Sens hovers nicht mit dem normalen Blattfall, wie er bei Abies pretinate in ferenter hugerfright in eine dinie zu skellen. De ich sie hehe werter verfølgen mochte, kan ich nætinlich keine werkeren Delarls millherlen. fin mich it Se bache derhalb von beronderem Inderens wert ich die Lebenngerchrichte des hilpes Hysterium



welcher die jefurchteten behuite kraukhert der Riefer verwracht) näher zu undersuchen benchafryk bin, und Sere Aufgabe gril min Jelgenherk, Thre freuntlicht angebolenen Jegensiemte in Amprinen zu rehmen. he wirde neutrch an linn tholens, der beinno stellenwerse forstloch cultiont wind erne almliche brochering constatient unter Aufhelen erner anderen Hyskirium, welches nicht berchrieben zu zem reheint. Da ich heres Algeberium Harbi miki in manuser. hierzulande aberall auf P. Kirben finde, ware min min sehr viel laran jelegen, Zu wirsen; ob selbes auch in America norkourt . Villerent waren he in der Lage, min eine kleine Partie spontan abgefallener Nadelu von l'hiobno verschafen zu kören. Herelben minsten zu der Jerk gesämelt werden, da eken die neuen Twieke nich entfallen, und is wore souringerade jetst de printighte p fork, for dar blome kye erschenk sener Pole in form kløner schwarger gløngender scharf unschriebener flecken oder huskeln.



Surch mem hitherling bifriedyt mid blerbe ich hochachtungwollst 14 3 erjehenter lo Jupple Mant.

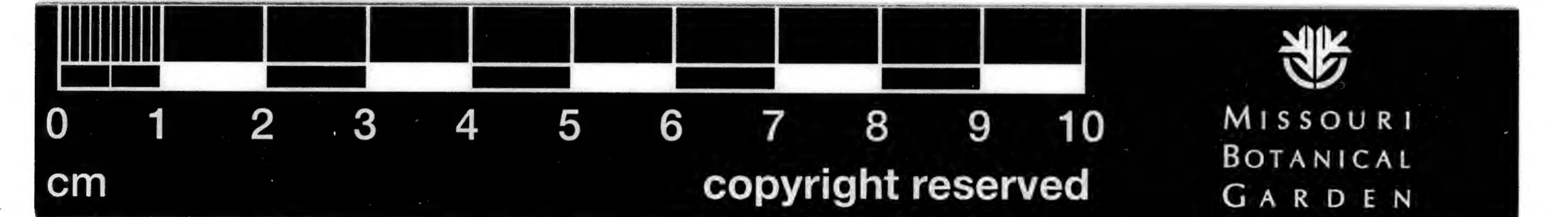






Carl I for a set of the

MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS



## Aschaffenburg, April 29, 82.

## Honored Sir!

Your question regarding the falling off of needles from many conifers I can answer to the extent that to me there is no information known regarding the histological reason for this phenomenon, A superficial examination, for which I did not have time to pursue more thoroughly, yielded that with <u>abies excelsa</u> at the leaf base, <u>sklerenchyrma</u> tissue issue borders on very thin-walled <u>parenchyma</u>. I explain this to myself in that, with the drying of the thin-walled parenchyma, the sklerenchyma does not shrivel and thereby the separation is caused. Glycerine prevents this shrivelling. This process is not the same normal defoliation, as it occurs with <u>abies pectinata</u> in moist air. Since I would like to pursue the matter further, I can naturally not give any further details. Therefor the matter is of special interest for me because I am occupied in examining the life history of the fungus <u>Hysterinum</u> which causes the feared blight on conifers, and this problem gives me the opportunity to make use of the return services which you so kindly offered. Namely on Pinus Strobus, which in some areas here is cultivated in forests, a similar

phenomenon was substantiated with the appearance of a different <u>Hysterinum</u> which does not seem to be described. Since I find this <u>Hysterinum Strobi-mihi</u> in manuscripts everywhere in this country on <u>P. Strobus</u>, it is very important to me to know if this also is found in America. Perhaps you would be in a position to send me a small quantity of spontaneously fallen needles of <u>P. Strobus</u>. They would have to be gathered at the time when the new shoots are unfolding and just now would be the most opportune time; for the naked eye this fungus appears in the form of smaller blacker more shiny sharply defined spots or pustules.

I would be pleased if you were satisfied with my communication and remain,

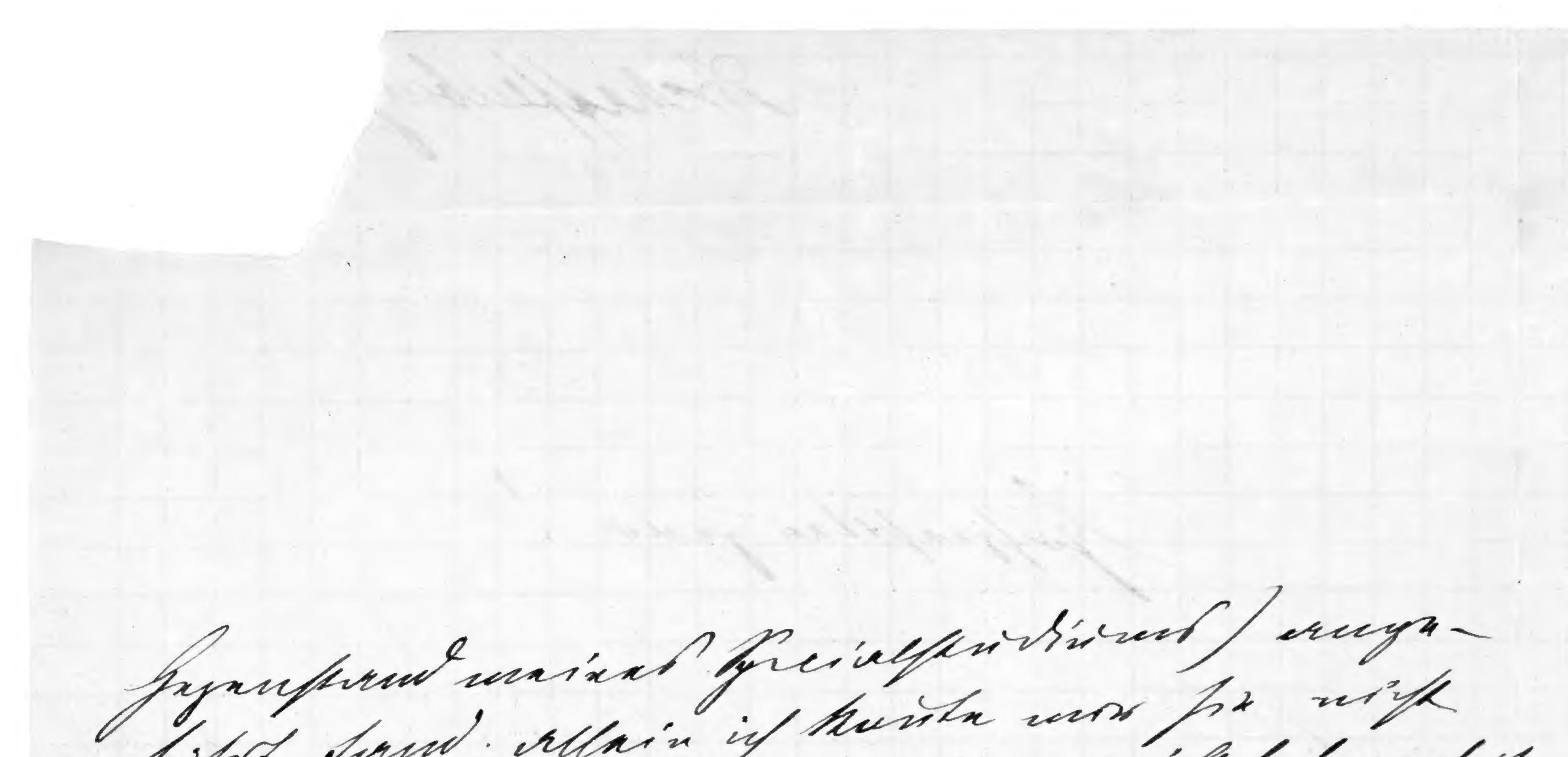
Respectfully,

Prof. Dr. K. Prantl.



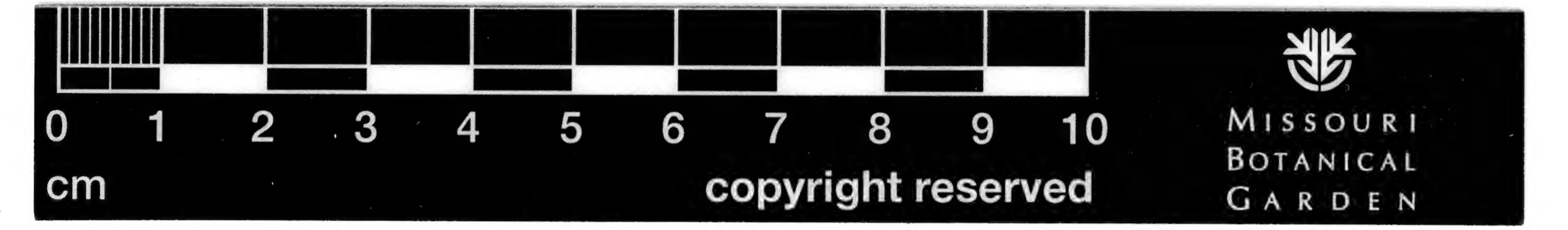
Achefluchu Juljanfran fama, Jerfan diruch for die minderfoltan fraindlifme Jefnudrymen des Viens - Systerien, under min fils inhortinan. Like i abar jugt wit Alup inproval thurspand sing here withjan htplup under tobailan, de underfan Juning, lanfnangan i. H. maina Jair for in hupping growton, Mp win forgetlight hutropping mix northering in might the tend if hit defau ju andfulligna, unn if from ainen aufufrelifne banif ask my her famina, in & Mourtur, in huspift pallan kin hufaldar falle if fin han sing llab Jun nollfundi jur propring in it if tim June may pary balance dankling, dep In une galagnifnid jahn, hip prilphit ainund innighand profan, in he is munfor huffinger, the for my non for kifligknit finds for indenfandhun nun laton it. 4. ubas umaneurspips forena (Siga Chaffa #3.).

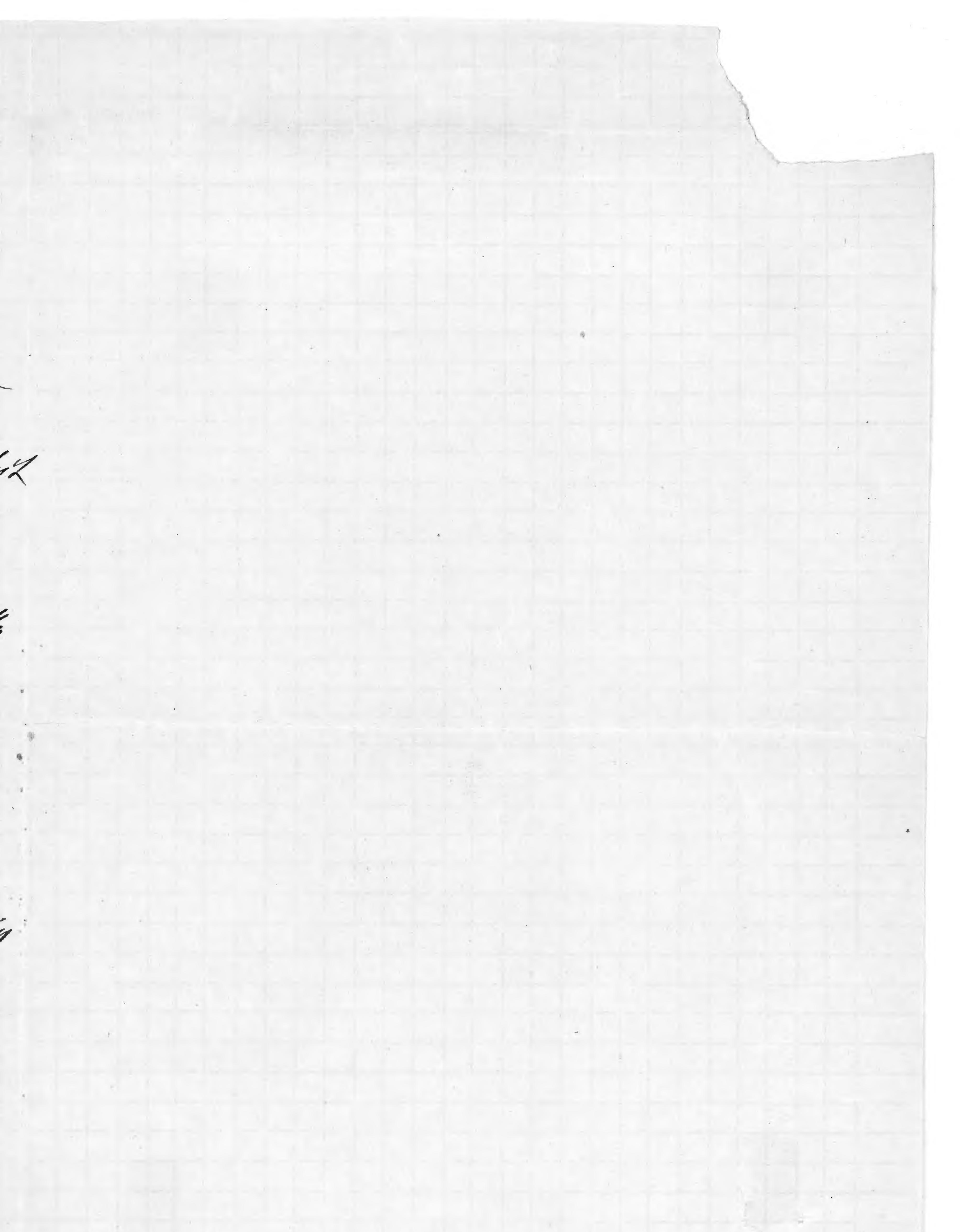


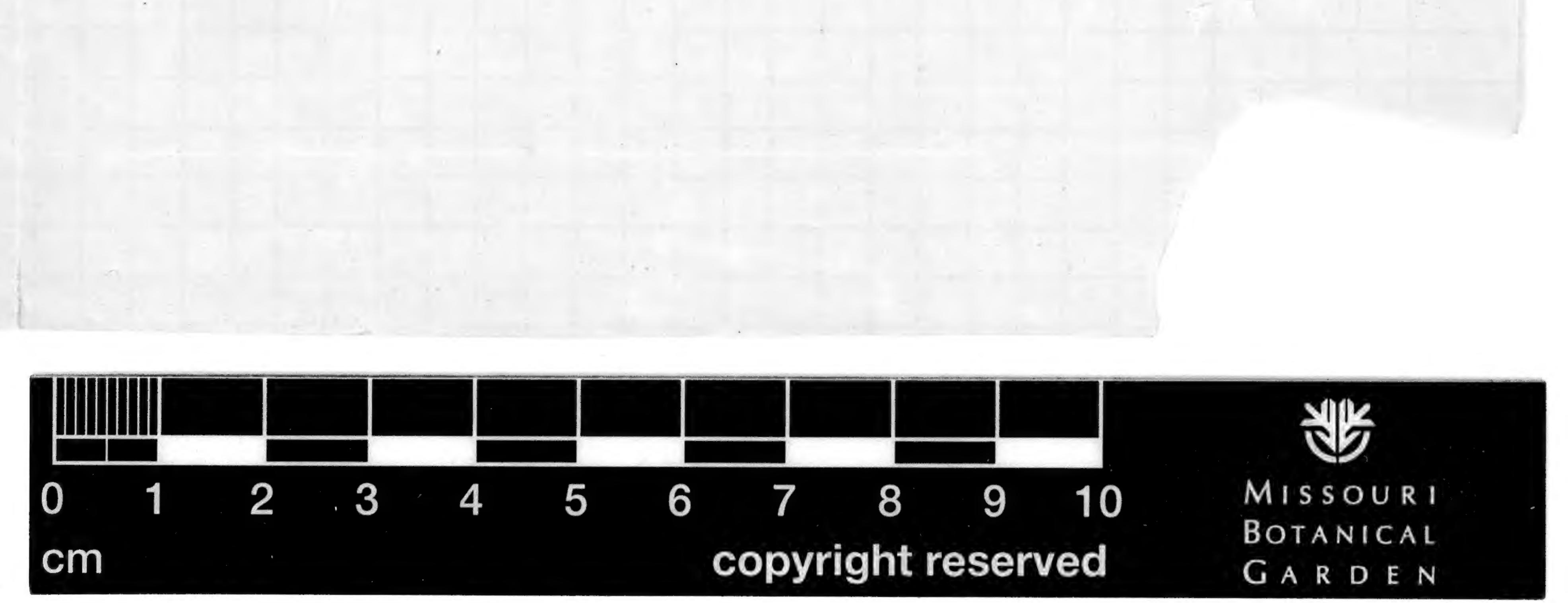


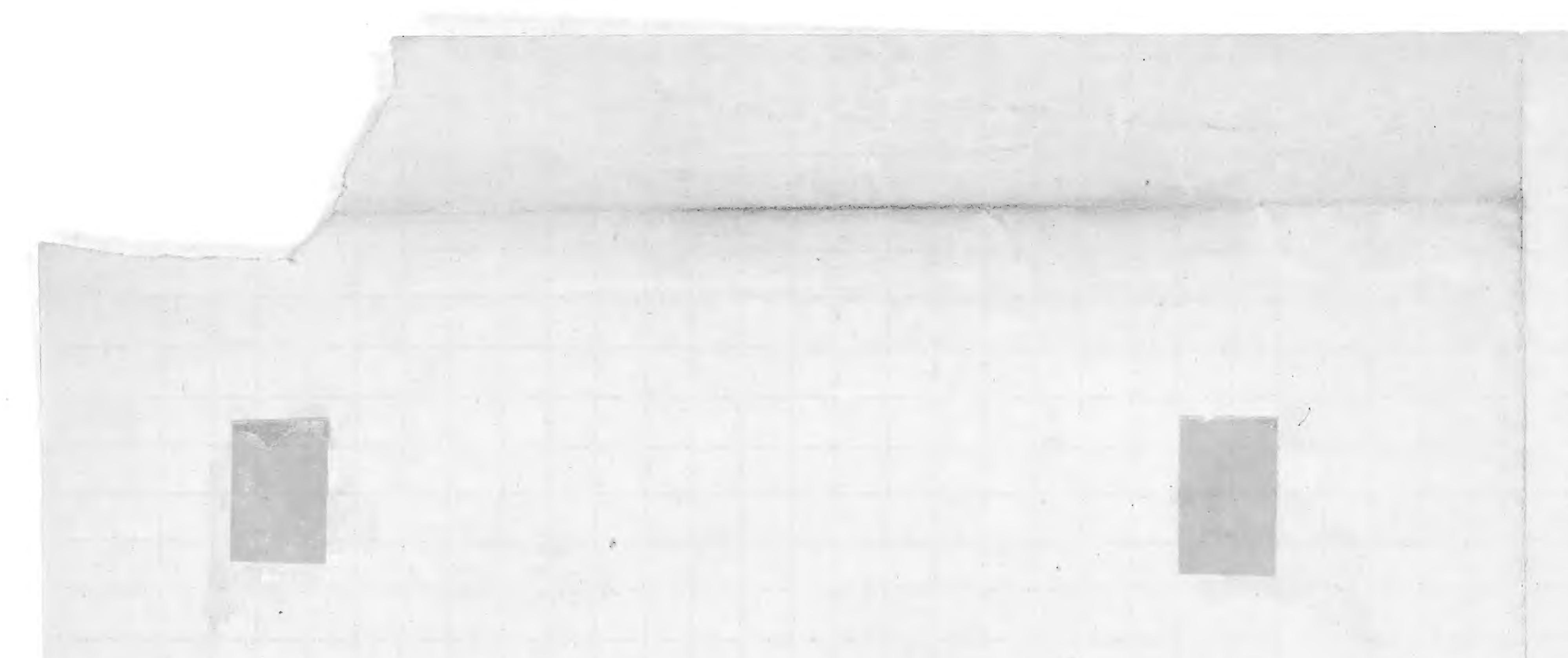
fight fired; Allain if hunda was for with masplyingen. Kella fil jog nielas for falagnufuz Jahnu, hong for funituillighaid yngabaran falls non Safain Bullion star fings pi unfunn, for moren if yn profiteren shuka maryfliffak wurd ha kvom je jasken steuff Jurn't findan from in nonjight for fortrifting prophilleut. MISSOURI BOTANICAL GARDEN

GEORGE ENGELMANN PAPERS













## Aschaffenburg,

## Honored Sir!

Many thanks for the repeated friendly shipments of the <u>Pinus-Hysterian</u>, which interest me very much. Unfortunately just now with the end of our semester, through the completion of other work, the endless examinations, conferences etc.,

my time is so much in demand that, for the time being, a careful examination is impossible, so please excuse me if I can hold out the prospect of a detailed report only after vacations, in 2 months. I will gladly place it completely at the disposal of the Torrey Club, and I am also especially grateful to you that you gave me the opportunity to at least see this publication one time, in which I found quoted a number of articles, which are very important to me, especially of Eaton and others about American ferns (this class at present is the subject of my special study); only I could not get it. If now I should perhaps have the opportunity, through your friendliness if occasion arises, to see this bulletin more often, I would be obligated

to greatest thanks and I would be at your disposal for any service.

Yours respectfully,

Prof. Dr. K. Prantl

