Missouri Botanical Garden
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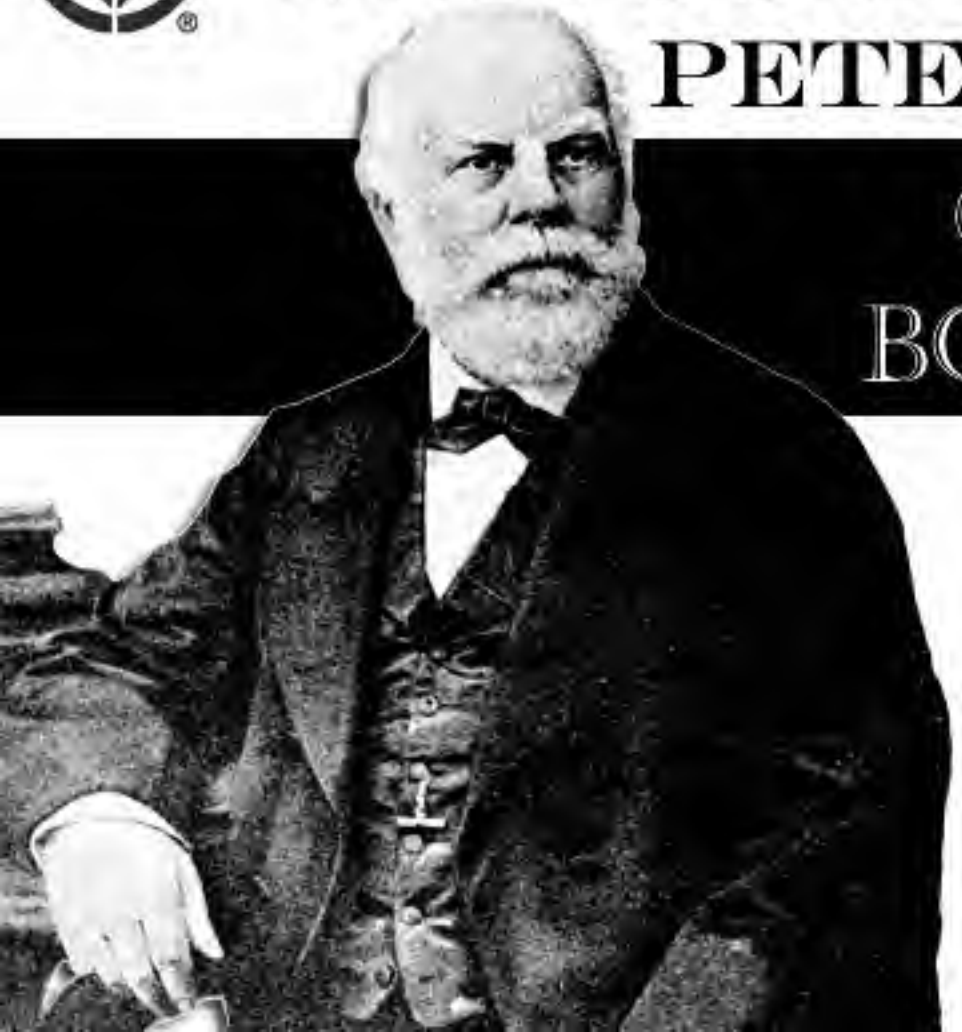
George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

P. inops

1380-5

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Pinus inops	P. clausa	Pinus clausa
4 folia	bina	bina
	latiora (1.5 - 2 mm wide) brevior 1-2½") grossius serrulata	angustiora (1 mm wide) longior (3-4½") tenuissime serrulata
3 vaginae	8-12-phyllae lax brevis (3" deciduae totae deciduae	8-19 phyll lax brevis 3" deciduae totae deciduae
1 rami juniores	subglauco-glaucei	virides
~~[illegible]~~	~~vagina~~ vaginae brevior	vagina brevior
5 antherae	flores masculi involucrum ~~[illegible]~~ anthera	crassiora longior 8-squamata	brevior gracilior ~~[illegible]~~ 10-11 squamata
pollen	0.060 - 0.072 mm	0.060 - 0.075 mm
6. amentum foemineum	laterales pedunculati pedunculus erectus petalo squamae longe cuspidato-acuta	laterales pedunculati mox reflexus cuspidato-acuta
7. Strobili	2-2½ poll. minores, plus minus pedunculati. reflexo-patentes ad maturitatem aperti squamae minores ~~[illegible]~~ gracilior acutissima semina subtus ~~[illegible]~~ asperata sine costula	persistentes 2½-3 poll. majores sessiles deorsum versi (reflexi) saepe per annos clausi minores robustiore recto patentes. antice versus annulum obscure 3 costata
ala angusta, medio latissima	angusta medio latissima	
Cotyledones 5-6	4 (-5)	
annual growth	4-5 lines (ring 2-2½ lines wide)	
Trunk		
Bark		

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Pinus ribes

Mich. Flor. II. 204. amentis mas. ovato-oblongis rufidulis

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Th. Meehan writes May 30 1875:

P. inops: I believe the cones appear sessile, they are "pendent" [reversed] except when there are several in a whorl then some will be upright

See my paper on varieties of P. inops & Banksia — Phil 1868 p 301 Proc. Acad

The spines on the cone scales vary in length but are, I believe, always reversed

The tree is spreading, and when mature [full grown] flat topped

Variations chiefly in the form of the cones

Var.

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A H Curtiss, Titusville, Florida, Feb 28 1891 writes to Prof Sargent.

Pinus clausa abounds on the Florida East coast, though occupying but a narrow belt, a light sandy ridge not over a mile wide extending parallel with the coast and lying a little west of the lagoons. It commences about half way between St Augustine and the mouth of the St Johns River and attains its greatest development at the head of Halifax River, where many trees measure 70-80' alt. and 24-26 in. diam. On the Peninsula between the lagoons and the ocean it is quite small, but abundant.

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Acc of -- the Grundeston for lots, No -- for the quarter ending Jan 1 1881

[7—155.]

TENTH CENSUS
OF THE
UNITED STATES.

Tree Covering; Forest Wealth; the Lumbering Industry.

CHAS. S. SARGENT,
Expert and Special Agt.

Department of the Interior,

CENSUS OFFICE,

Brookline, Mass., March 7, *1881.*

Dr George Engelmann
St Louis Mo

Dear Sir

I enclose for your information a letter just received from Mr Curtiss.

Please return the same

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Rec'd May 17/75

Insp. not published on

Pisrotina

Apalachicola. 10th May 1875.

My dear Doctor:

Turning to p. 433 of my Flora, under P. P. inops & mitis you will find the expression "opening at maturity". Of course they do; but in my Ms., I had another species (P. clausa) in which they did'nt open at maturity, & fearing lest it should be found to be a variety of P. inops, I erased it when in the printer's hands, but neglected to erase the above expression in the other two. That's how it come. Now I wont swear positively to any Pino, unless it be P. strobus, not even to P. australis, for they hybridize awfully, & Feeder butts against it awfully. Now the habit of this Pine is just that of P. inops; but the leaves are longer & more slender, & that is the only difference that I can see. But the cones of this remain closed for years, generally, but not always, for, perhaps, one in ten or twenty of the trees present cones of the normal character.

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I send off with this by mail a little box containing all parts of the tree, which will enable you to satisfy yourself about its claim to rank as a species. It is a tree commonly about twenty or thirty feet high, with a rounded top or outline; with a rough scaly bark on the lower part of the trunk, the upper part & branches being smooth. Its base is rarely more than one foot in diameter. I have seen it, with cones, not more than four feet high, & sometimes it runs up slender like a larch to forty feet. Its grain is very coarse, - has no lightwood, & decays rapidly. I have never seen it applied to any use. It grows only on the most barren sandy ridges near the coast, where are found the Ceratiola & a few stunted Oak bushes, & where the sands are covered with several forms of Lichens. The scales of the cones grow together near their summits, which confines the seeds, & these cones remain firmly attached to, or embedded in, the branches or in the main stem for at least ten years, sometimes, & probably much

longer, and in these closed cones will be found seeds apparently as perfect as the in the year of their formation. These ~~cones~~ are single, opposite, or verticillate, and grow at the end of the first joint of the year, of which joints there seem to be three annually.

Elliott does not appear to have seen this tree, or I might suspect it to be your P. Elliottii. In the box will be found branchlets certainly young cones, & leaves one to three years growth, the ordinary cones of various ages & sizes, and one normal one with the seeds shed. On this tree all were like this one. There is another one partially open, from a separate tree.

I also enclose two little Euphorbias which I found on Lookout Mt. Tennessee three years ago, & which I take to be Michaux's long lost E. mercurialis. As it comes from near his locality. The full grown leaves are oval.

Well I have had an unexpected, but very pleasant visit from Dr Gray & Lady, both of whom seemed to be delighted with our splendid climate, & express an intention to visit us again,

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or even annually. I showed him all my botanical novelties, some of which he sent on before him to his gardener.

Yes. I received both of your papers on Yucca, and read them with much interest & pleasure. I never saw the Y. gloriosa growing wild, & do not know certainly if it is found on our coast. Y. aloifolia is common. I am glad you have now the means of settling the fructification of these plants.

Nor have I forgotten you wish to get Zostera but our fishermen have never been able to get it, although I directed them to the locality where years ago I saw it. I presume our terrible gales have carried it away, or buried it deep under the drifting sands, as they have that Podostemonaceous thing. The agricultural Dep't at Washington wants me to get for them blocks of trees of South Florida & I have concluded to go down there if they will pay my way. I will give that Terra incognita a thorough scouring, if I go, Entomologically & Botanically - Always glad to hear from you, & remain, Yours very cordially,

A M Chapman

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Rec'd July 12' 1875

Pinus virens clausa

Lyon Cerrum
Phys contrib

Apalachicola July 1st 1875

My dear Doctor.

Yours of the 24th May was been on hand some time, and to day I am offered an opportunity, by Capt. Miles of the Coast survey to mail this & the package of pine in Pensacola, — our mail having ceased to come through negligence of the mail Contractor. I better give it up & call it a form of indefs — I shall send three pieces of bark one near the ground of the largest tree I saw — very coarse — & two others one near the ground & the other just above the bag of its height of the same tree (the smooth piece) I send one cone apparently of last year & a twig bearing three young cones at different points on the twig.

At this season the branchlets are all ash gray, except a growing point on the twig.

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sent which is pale green.
I notice on nearly all the trees the cones mostly closed, but here & there on these trees a cone is fully or partly open - i.e with some of the basal scales on one side loose & spreading. Very rarely all are open on a tree. I doubt if this pine survives many years - perhaps not more than 30 or 40 years for a trunk more than a foot in diameter is seldom met with, & the grain is very coarse.
I believe it is only found along this coast of Florida in dry sandy places Dr Feay says it is not found at Savannah, nor did he ever see it any where else except at this place
I believe I have answered all your questions & turn the thing over to your decision which will be perfectly right while I run up to land this to Capt Niles, in the mean time remaining
Yours truly A.W. Chapman

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