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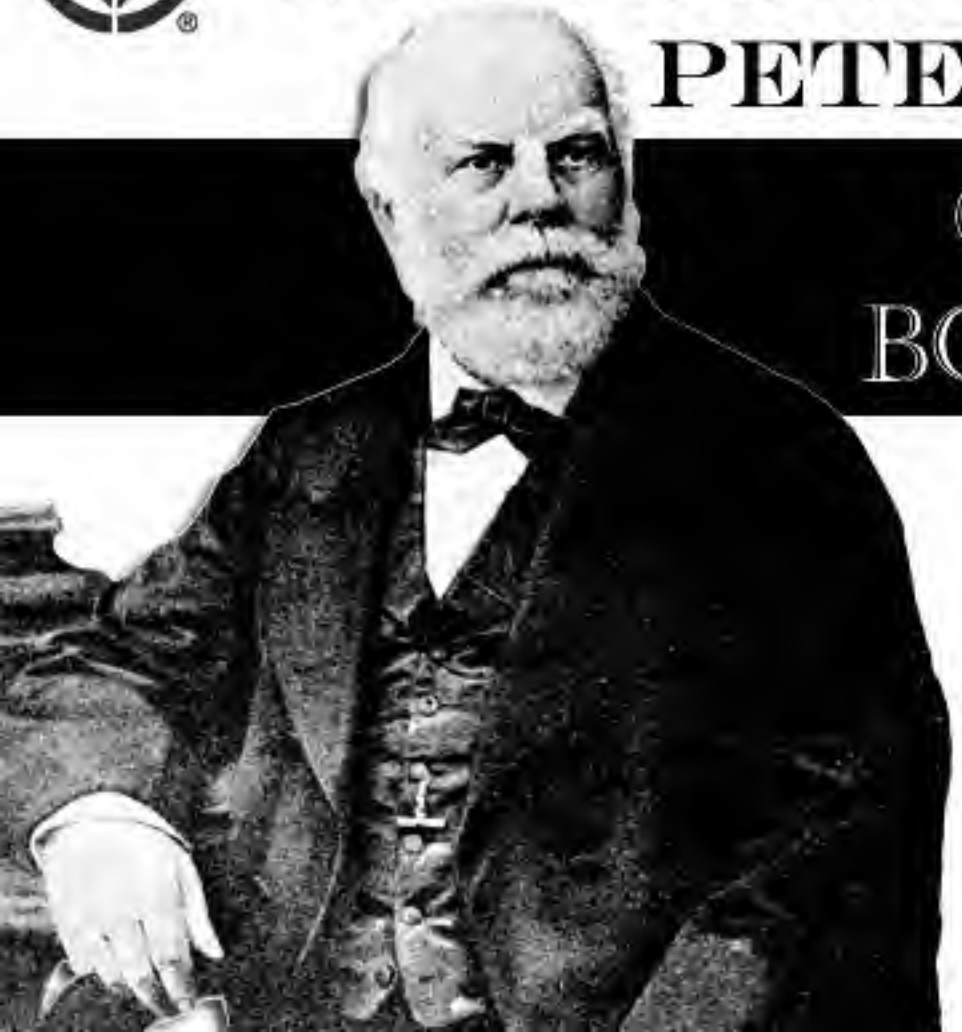

Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

E. Purkyne writes Sept 13 1876.

Q. alba and macrocarpa are very distinct in their buds from Q. Robur

Q. Prinus (in Kew Gardens under the name of monticola or castanea) has buds very different from alba, and very similar to Robur

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Meehan July 1st 1876
writes

Judging (at Centennial) by bark and wood I think Q. lobata may be the same as Q. undulata and Q. Texana Buckley the same as Q. nigra

Q. Durandii Buckley — both respects distinct from all other oaks

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of the latest European styles and never presented here before, which I am now ready to rent out at the lowest figures, at my place of business, No. 202 S. 5th Street, corner of Elm, on 2nd floor. and would most respectfully invite the public to examine the same before leaving their orders elsewhere.

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ELISE LANG.

1639

Nuttall you already quotes Q. agrifolia

Louis Née, in Anal. scienc. nat. 3. p. 264. 1802

[same translated: Delaunbelle quotes: "sive"

(Hoen. & Sims Ann of bot. 2. p. 100)

describes 16 species – types in the Madrid Museum

Q. agrifolia

Q. Cobata

Willdenow Lin. Spec. Plant ed IV. vol IV. contains

Quercus pub. 1805

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Office of the Chief of Engineers,

Washington, D. C., April 15, 1876.

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Dr. Geo. Engelmann,
3003 Locust Street,
St. Louis, Mo.

Sir:-

There are sent you by express to day for examination, originals and proofs of Plates I

CHIEF OF ENGINEERS, U. S. Army, Washington, D. C.
6332

Quercus michauxii Crassifolia Dr Mellichamp.

Leaves cordate at base, 12-13 ribs on each side, strongly cross ribbed between the secondary ribs

Petioles ~~one~~ 1 inch long or over

Buds (terminal) ~~about~~ 3 lines long, more or less, five angled (when dry) with 8-9 scales on each angle, short, obtuse, brown very slightly pubescent, lower rounded, upper somewhat triangular

Cup shallow, (very knobby); scales short broad triangular at base knobs of lower scales ~~off~~ sometimes bifid in the manner of Prinus

Buds in Curtis' specimen of C. Long, scales same number, more rounded more caruescent

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Annals and Magazine of Nat History Apr 1871

Descriptions of some new or little known Species of Oaks from North West America by Rob. Brown of Campster

1. Quercus Sadleriana R Br Campst. (writ. ? Q. garryana var. Q. dumosa Cup) leaf large, broadly elliptical or ovate, acute bothends, remotely serrate, nerves very prominent inferiorly, above dark green, below paler, glabrous both sides 4 3/4 inches long 3 inches wide, petiole 3/4 inch (average of 6 leaves) fruit shortly pedunculate, glans projecting more than half out of cup, small ovate, blunt-pointed 1/2 - 3/4 inch long, 1/2 - 2/3 inch diam; cup deepish, expanding, very thin; scales ovate closely imbricate, appressed, white pubescent, 1/2 inch deep or less.

Hedumbin annual (?) Brewer got same! see my sketch

On a spur of the Siskiyou Mountains about the California Oregon 42° north. Sept 1865. Shrub, 4 feet high. Leaf form not unlike the chestnut-form of Q. dumosa H & A. — Oerstedt says there is none of the American oaks which resembles it — the thin margin of the cup is very peculiar.

2. Q. Oersteditiana R Br Campst. leaf small oblong or obovate with 3-5 rounded shallow acutely cut lobes on either side, base acute, veins very prominent inferiorly, glaucous above inclining to pubescence below, dark glistening green above, paler brownish white or cinereous beneath — 2/3 by 1 1/4 inch, petiole 1/4 inch; glans large ovate flattened below, conical pointed upwards, 1 1/4 inch long, 3/4 inch diam. cup hemispherical shallow tubercular, scales ovate, rarely subulate, covered with dense white pubescence 1/4 inch deep. — Annual Mountain

In galleries in the Siskiyou Mountains

Approaches the group of Q. garryana, differs in character of cup, size & colouration of leaves — always a shrub (Sept 1865) — very abundant fruit.

= Shrubby garryana? Brewer got the same, see my sketch

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6334B

= Q. dumosiflora

3. Quercus echinoides. R. Br. Campst. Leaf perennial small lanceolate oblong-elliptical or rarely obovate, shortly petiolate serrate, entire or with a sinuate margin, nerves distinct inferiorly, above glabrous or slightly pubescent, below with cinereous down – 1/2 × 3/4 inch petiole 1/5 inch. Fruit short pedunculate or sessile; glans ovoid, terminating in a short blunt point, upper part covered with a dense cinereous cadrous pubescence. 1 1/10 inch long, 6/10 inch diam. Cup shallow hemispherical, densely covered with filiform stiff patulous or reflexed scales or hooklets, densely cinereous-pubescent. Maturation annual (?).

Cañon Creek south Oregon and on Siskiyou Mts, 8000' Sept 1865. A small shrub growing to a much greater elevation above sea than Q. dumosiflora to which it is allied. Kernel excessively bitter. "Hunters always look upon it as a separate species from the Willowoak (dumosiflora)."

= Q. vaccinifolia ?

4. Quercus oblongifolia Torr. Leaf perennial small ovate or oblong elliptical, entire or, rarely, with a few serrations on the superior portion of the edge and commonly only on one side, glabrous above and below, glaucous superiorly, darker green above paler below, short petiolate equal at base, 1 1/10 inch long 6/10 broad. Fruit sessile "solitary at the end of the branches", gland ovate pointed covered with cinereous pubescence, 1 × 1/2 inch hemispherical turbinate cup, with ovate convex appressed scales which terminate in a blunt membranaceous horn point base tomentose, pubescent, cup covering gland about 1/4. Maturation annual.

In gulches among the mountains of Southern Oregon, 2000' Sept 1865 – Shrub 3 feet high, fruiting very sparingly. Evergreen, – Identical with the New Mexican plant? closely allied to Q. gracea Liebm. – Allied to Q. agrifolia, which occurs not north of 43° lat. – In Anderson Valley [where only Q. Wislizeni] forms that agree with Q. Markeeus Kellogg [= Wislizeni] On gravelly hillsides in the interior this tree presents still another form, Q. Wislizeni Engelm [sic!]. The Acorn ripens annually.

See also Oersted's Memoir on Q. agrifolia in Videnskab. Medd. 1869. p. 59

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= G. Garryana

5 Quercus Jacobi R. Br. Caespit. I will here only indicate the above species, found as early as 1853 by me in the south eastern district of ~~Calif~~ Vancouver Island close to the house of Sir James Douglas along with its close ally G. Garryana. Leaf more palmate with 5 lobes deeper and smaller than in G. Garryana (leaf of this long, with 3 or 4 almost equal shallow lobes ~~deeper and smaller than~~ in acutilobat at the bottom

I have in the course of publication a work on the forests of Northwest America, with figures,

---

In gulches among the mountains of Southern Oregon, 2000'

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Prof Liebmann Egetslaegten &c

Oversigt &c, Copenhagen 1854. № 5 & 6.

American Oaks

p. 169 Af de nye amerikanske Egearter meddeles her Korte Diagnoser
Of the new American Oak kinds he communicates here short Diag.

1 Q. Gambelii "Liebm." [Why?] Arbor 30–40' (Nutt) Rocky North, Gambell, Fendl. 806 809 810 b

170. 2. Q. Fendleri Liebm. — fol. bas. cordatis, pel obtusis, ultra medium sinuato-dentatis, fr. pedunculat. Fendler 805. 807

170 3. Q. Drummondii Liebm: fol latissime obovatis, basi cuneatis undulatis propende sinuato-pinnatifidis, lobis obtusiusculis plus minus sinuato-sinuosis, margine cartilagineo recurvo subtus dense tomentosis demum glabrescentibus. fr. sessil. — San Felipe, Texas Drum 342

171 4 Q. hastata, Liebm fol coriaceis brevipetiolatis elongato-hastae formibus acuminatis crenatis, saepe sinuatis, saepe integerrimis s. dentatis paucis intuitu utrinque glaberrimis, petiol teret. glab. — fr. sessil.

Texas, Wright 666. [I have fr. the grey] Affin Q. virenti [= Emoryi!]

5 Q. grisea Liebm foliis coriaceis brevipetiolatis ovatis obtusis vel apiculatis cordatis integerrimis supra pallide viridibus pilis stellatis adspersis, subtus flavescenti-incanis dense pubescentibus, petiolis teretibus tomentosis, fr. pedunc. pedunc. tomentoso

Texas & El Paso Wright 665. [Thurber]

6 Q. pungens Liebm fol coriaceis brevipetiolatis ovatis s. oblongis obtusis s. obtusiusculis pl. min sinuato-dentatis dentibus inaequalibus latis apiculatis pungentibus patulis v. divergentibus basi obtusis v. leviter cordatis v. cuneatis, supra pilis stellatis adspersis nitidis laete viridibus, subtus incano-tomentosis, petiolis teretibus demum glabratis; fr. sessil squam capsulae hemisph dense tomentosis. Wright 664. Texas & N. Mex — California Lobb 106. [I. possess]

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Liebmann, contin.

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p. 172 7. Q. berberidifolia Liebm foliis coriaceis breviter petiolatis rotundis vel ovatis utrinque rotundatis mucronato-dentriculatis margine cartilagineo plano, supra viridibus nitidis glabris seu costam puberulent flocculosis, subtus pruinoso-glaucescentibus pilis stellatis brevissimis adspersis, petiolis puberulibus fruct. sessil, cupulae depressae squamis deorsum tomentosis fol 11-14" long 5-10 lat.

[I have a fragment of] California Coulter 661 Fremont 1843-44 - Rocky Mts. - No Fremont sp. in the Jepson which could be referred here they all belong to Jepson

" & Q. lobata Née Liebm Hartweg 1964 Calif [Sonoma

173 9. Q. chrysolepis Liebm - fol jun subtus aureo-pulverulentis - petiol compresso, fructibus in apicibus ramulorum sessilibus. Hartweg. 1962 - Fremont - Lobb. Calif.

" 10 Q. Neali Liebm. fol membran. petiol late-obovatis obtusis basi late-cuneatis v. subcordatis medio lobis profunde sinuato-pinnatifidis, lobis obtusissimis integris v. sinuato-mucronatis margine cartilagineo reflexo supra nitidis glabris subtus inaxes flavescentibus puberulis, petiolis supra planis puberulis. fruct sessil, cupula depresse patériformi, glande globoso-ovoidea apice impressa apiculata nitida

Fol 2-3½" long 1-2½ lat - cupl 3×9,"' gl. 12-14" alt. 10-11 diam.

Calif Hartweg 1965 [x] affinis Q. glaucae

[Q. Douglasii var.? Neali Dl. Prod p. 24
Q. Douglasii Benth PL. Hartw. : arbor 40-pedalis, Sonoma]

The following, Nos 11-52 are Mexican species

x/ Hartweg 1965 - the Q. gracilis is a deeply lobed Garryan with large tomentose buds, Hartweg seems to have confused

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Cambridge Mass Oct. 17 1870

Quercus alba a form from Bebb, Fountain Co. with leaves, some alternate at base, lobed & deeply lobed upwards

one tree near Soldiers Home, Washington 7 May 1870 beside acorns of White oak, but leaves similar to Q. lyrata and slightly stellate-pubescent below.

Q. aquatica "the only oak on Lake Superior" Robbins 1862 (Cuba!) 17 days

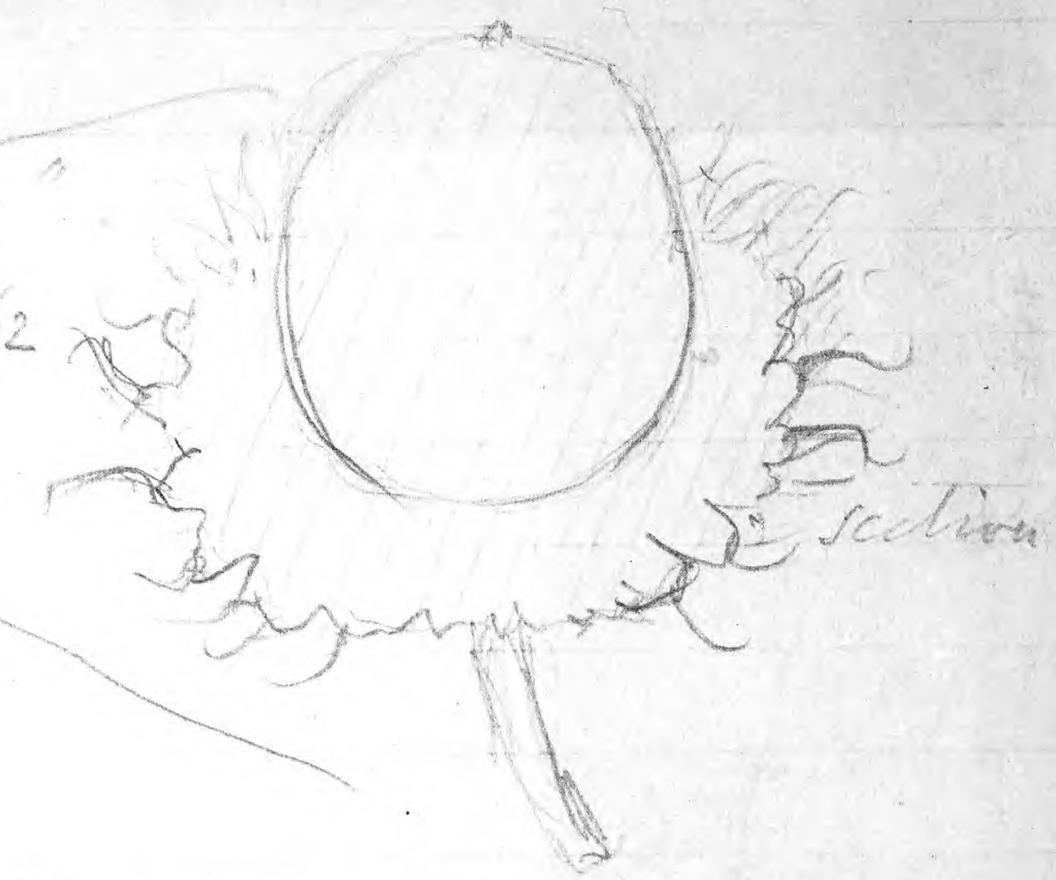
Acorn of Bebb specimen is tomentose in fruit — leaf apparently subentire

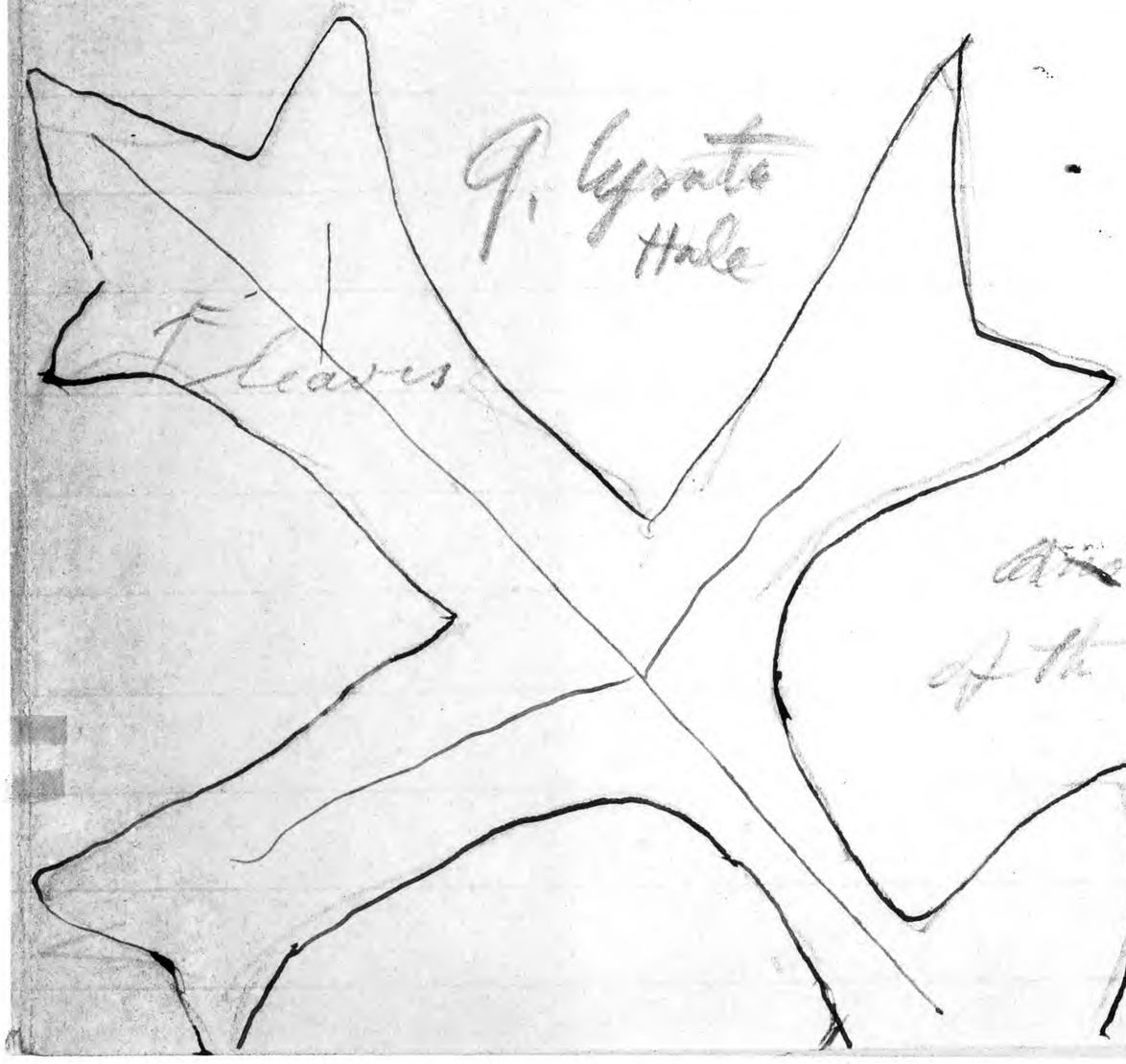
Oak no 2 Memphis, Pendleton 1852

is Q. lyrata with cups covering the acorn not much more than 1/2. Q. lyrata, Louisiana, Hale has more deeply lobed F

Quercus stellata from Saskatchewan Bourgeau 1857 is the middle form of macrocarpa

Q. macrocarpa — "a new species" of Cincinnati, D. Christy Dec 1862 Pinckneyville, Perry Co, Illinois





of cups covering the cup

Q. stellata form of Pendleton from Memphis has some of the cup scales with foliaceous tips approaching macrocarpa

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now Q. tinctoria, New Haven, Eaton 1857 "cupula hemisphaerica"
pubescence just disappearing — trees yet visible

now Q. tinctoria from Va — Curtiss Oct 1871 — cut off.
leaf off = subs, sft yet with so — pubescence
All tinctorias have large tomentose terminal buds

now Q. tinctoria R. I. Olney, has also cut of leaves more like
Q. coccinea, Oakes Mass buds large not glabrous — lobes of
leaf divaricate — Mather, Phila — undoubtedly coccinea with
buds of same size, but

Q. tinctoria St Louis 1849 with long caducous buds ✓
Q. coccinea Winnipeg Lake Bourgeau 1859
Q. tinctoria S. Carole Curtiss
Q. coccinea Rh. Isl. Olney buds small but caducous
others ibid. have round ✓ glabrous buds

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Q. cornea Fountain dale, Bebb 1870 with very small pedunculate leaves — Ost comm acorns — same Vasey, Rugel

Ringwood Vasey 1862 with large but very deeply lobed leaves, almost bipinnatifid, midrib sometimes only 3–4 lin wide — small glabrous buds

Q. Prinos with large peduncled fruit, (my true Prinus) Mt. Sl. Olney 1873 glabrous cottaceous leaves, long glabrous buds & bud sq — lobes Curtiss. Va. 1871 same with obovate large downy leaves glaucous

Q. P. Georgia, Meisler, only fruit probably Michauxii

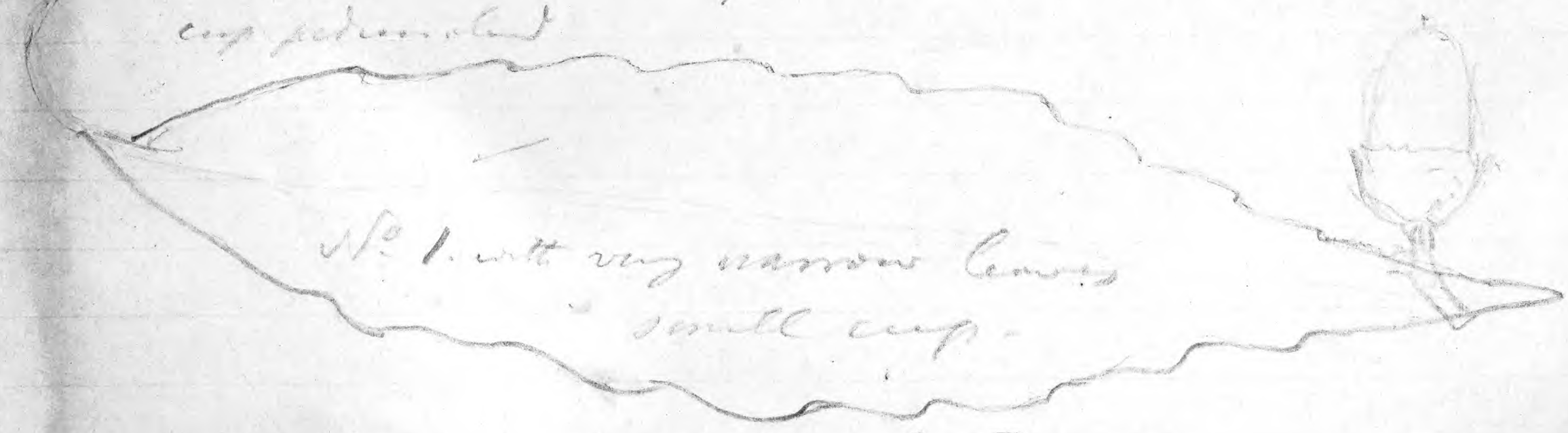
Cup very large — oblong at base

Louisiana Hale in the same fruit subsessile, leaves bud large like Michauxii — oblong or cordate base — buds & glabrous

Dr John P. Miester Reading Pa 1851 seeds — lot of different Prinus 1–8 from same locality

2. 5 & 6, small peduncled acorns — large ovate or obovate leaf
3. at base — & Ost still slightly pubescent

4. 10 have a little larger fruit, otherwise the same (a flowering sp. of same locality is almost glabrous, leaves 11 is a very broadleaf form of same, acorns a little longer cup peduncled



others have
stronger dentation
all comm & Octob slightly pubescent

Thousand Island Lake N.Y.

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Q. Prinus "monticola" & "acuminata" of Ph. Isl Olney
are all forms of true Prinus

Q. O. Michauxii Mellsbridge
Hale, Louisiana } leaves obovate or cordate mostly
is the same } caps peduncled short
Fenster, Memphis Lower central Cave, white underneath
caps sessile

Quercus castanea Reading, Dr Hiester "is very uniform in its foliage
its bark and growth, too, are strikingly distinct; bark much
like Q. alba." – caps peduncled, or sessile, buds nearly glabrous wool

Q. prinoides "with little acorns under the scales" Rhode Island
caps with obtuse very knobby scales leaves of primary
more retiriulated
above the Prinus?
Leafy Galls (like Vasey's) for New Haven
buds very small, oval, nearly glabrous

Q. rubra minophylla v. palmatifolia Bebb, Fort Dodge – Vasey No 10
buds oval rounded, nearly glabrous small

— — coccineafolia Bebb No 5 – larger leaves & acorns same buds

— Bebb 44 = 5

— Bebb 4 is true rubra with a little deeper caps, oval bud

— Bebb 45 is normal rubra, buds lanuolt

Q. castanea Hale, La, & Chapman Florida are both like the
St Louis plant. Chapman says: I doubt if you have it northward

— Central Ohio Sullivant (fr. pedunc) (also with exx. of cup)

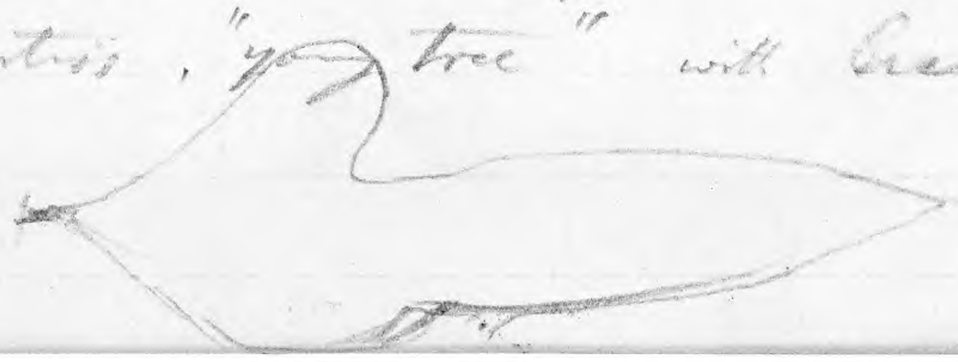
— Memphis, Fenster (fr. brw. pedunc)

— Arkansas Bogrich (fr. ped)

— Augusta Ills Mead for subsessil

Q. imbricaria Middletown N Jersey A. Gr. 1833
peduncles short, 2½–3 l. long

"Q. Phellos" Norfolk Va. Curtiss, "young tree" with brown
soft deeply lobed –
lower part



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Q. Phellos, Santee Canal Raven — very short?
leaves, 5 inch long 1 wide, petiole 3 or 4 C. long

Q. — "with young leaves white downy beneath" Wilmington Cady

Q. heterophylla C. E. Smith Camden is one plant
— — — Tivi'cum has obsessile, nearly blue leaves

— — Ver Holly N.J. ("Buckleys Cemetery") in plant

— — Bog Hill Texas, may be Phellos × palustris

— — Harrisburg Penn, Chester Co Pa, near the Bailey

with shorter petioles & less rotate leaves

Q. cinerea leaves 5 × 1 inch — petiole 4''' Louisiana Hale
fol larger than usual — seems under the name of virens

sp Q. heterophylla D. Christy Oberlin 1, "first generation" leaves
oval or oval large leaves with few coarse teeth
(in brown rubra?)

2, "second generation" back & fed light — evidently rubra
with juvenile & adult (fully formed rubra) leaves

sp Q. leaves Missouri Twelve is correct.

Q. Durandii Bailey Hill 594 Austin May 20 — Some forms approach
undulata Gunnison, others have broader leaves with few obtuse
lobes — other nearly entire obtuse leaves

Q. agrifolia has very small, nearly globose buds

sp — — Sandhills Columbia S.C leaves 4 × 1½ inches, ovate-lanceolate
obtuse or cordate at base, petiole or slightly — upper one
(late shoot) more toothed — petioles 4-8 C long; buds ()

Q. alba — marsh Debb No 24 Tuckahoe has leaves
of m and fed of alba

— — — No 27 has leaves a little more like alba, but
petiole, acorn like south northwestern running

Q. lyrata has pretty smooth cups, scales somewhat
tuberculate (Ely & Wirt sp?) Rose or purple ex Sargent's.

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Sp Quercus Lyrata Durand (sh) 340 (sh) & 341 = Durandii —
especially the former; 341 comes nearer Q. undulata var
Q. corrinea var Tinitoria No 6 Bebb, Elida Ill. is a regular
smallleaved
~~Fabrea~~ with large, tubiate cups, and peduncles 1/2 – 3/4
all lobes to tube 1 inch long
No 8 is large footed, small-leaved also peduncles 1/2 inch
20 is smallleaved, cup deeper, approaching corrinea
as also the leaves do
13 is similar
acorn 11 is corrinea or perhaps with tinitoria, with large bud
leaves intermediate between both
7 "corrinea var" is the regular smallleaved form of nubs
Sp 18 same leaves, but tinitoria deep cups, tuberculate
"degenerate corrinea" with small acorns nubs – lobes –
hybrid between corrinea & palustris

acorn 12 regular corrinea with deep cups covering
1/3 of acorn
acorn 43 is a corrinea with something of
subra in the fruit
acorn 21 large but very deeply lobed leaves and
small long acorns palustris-corrinea?
acorn 54 acorn large, cup truncated leaves of corrinea
" corrinea var
acorn 9 acorn slender cup slightly tuberculate acorn leaves

Quercus Berzeliana Oerst near Q. mexicana HBK both called
by Bunge with biennial

Q. rigida annual, long peduncles – large rough oval leaves see Gray
strongly reticulate, below tomentose

Q. Bottersi 258 no name has Chestnut leaves with small but
long awned teeth – biennial. Oregon

GARDEN PAPERS

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g. retinalt with long pedicel & fr. oboviti short
petioled Cours Liebman

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HBK. Nov Gen et Vol 2 p 6

Quercus confertifolia HB. Pl. eq. 2. p. 53. t. 94

Ramulis abbreviatis, foliis brevissime petiolatis confertis lanceolatis acuminatis mucronato-aristatis integerrimis coriaceis, margine subreflexis, subtus pubescentibus; fructibus subgeminis sessilibus

Arbor 15-20 ped. semperviren — — folia — — basi rotundata — — venis parallelis apice bifidis subtus prominentibus — — supra glabra nitida, subtus praesertim in venis pubescentia 2-3 pollicari 5-8 lin lata. — — Cupula — squamulis ante imbricatis membranaceis extus ciliatis pubescentibus (Bonpland)

Inter Quarapito & Santa Rosa 1200 tois alt

[7000 feet]

In Humboldt & Bonpland Nov Genera et Species vol II tab 75—131 24 new species of oaks are figured — the same that are described in Nov Gen vol II p. 7—15.

no other oaks are mentioned in Nov Gen but these 24 sp.

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