



MISSOURI BOTANICAL GARDEN
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GEORGE ENGELMANN
BOTANICAL NOTEBOOKS

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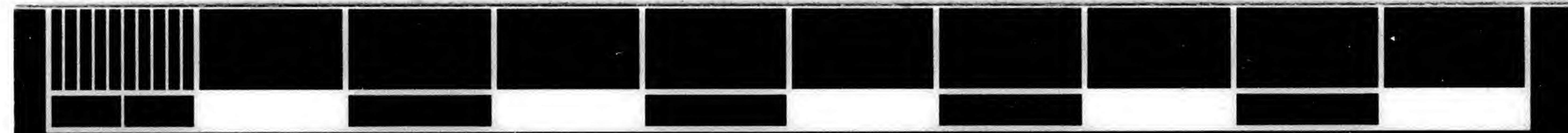
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19-98 Nov & Dec 1860
 114-843 Jan - Sept 1861 (247 Eshel "March 61" (1861?))
 947-1489 April - Dec 62
 1660-2037 ^{2nd} ~~March~~ ^{March} - Oct 1863

W. H. Brewer's Quercus notes.

"Longiglauca" #1

19. San Luis Obispo, - Nov. Trees with craggy habit. Those on the hilltop covered with trailing lichen. ^{hilltop} bark thick, leaves variable.



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MISSOURI
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6361

Quercus macrocarpa

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101. Same tree as above. The bark is
rough. The leaves are
green with
brownish



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-978. " " ¹⁸⁶² Apr. 14. Rocky ridge. Small tree 30 feet
high. near Sonora Calif
chrysolepis



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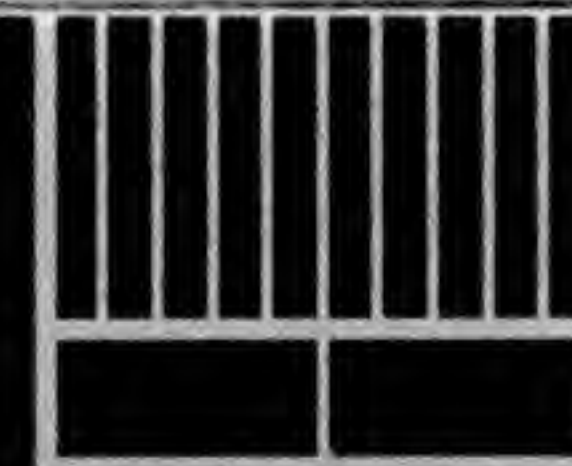
Handwritten notes:
1862
Missouri Botanical Garden
George Engelmann Papers
6362
P. 879
Nigella



Orland Creek Q. Hindii, sum trees measured as follows.

May 1-1862

15 ft. - 12 ft. - 16 ft. 1 in. - 16 ft. 2 in. - 13½ ft. - 14 ft. - 15 ft. 2 in.



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6353



lobata Q. Hindii. — Many on plain near camp ^{Mont Dillo May 1862}
measures as follows. — 14⁶/₁₆. 16⁴/₁₆. 16⁵/₁₆. 15⁹/₁₆.
18³/₁₆. 14⁵/₁₆. 17⁷/₁₆. 17⁴/₁₆. Bark seen 5¹/₄ in. thick.



Handwritten notes, including "Missouri Botanical Garden" and "George Engelmann Papers" visible through the paper.

Labata
6364

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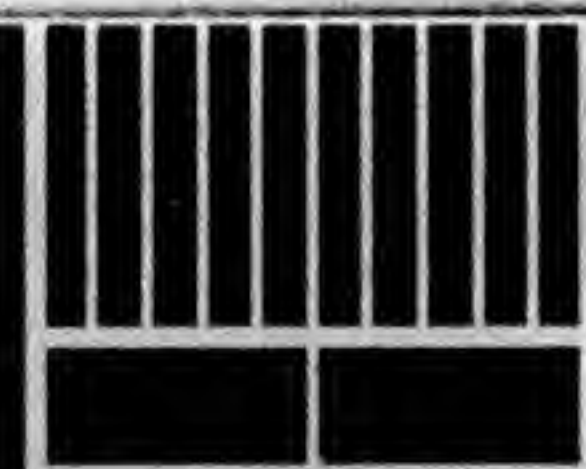
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Monte Diablo
May 1862

Q. wislizeni? (willow leaved.) Few in dry places in
valleys, but oftener on hills. A scraggy
tree, often 2 ft. in girth. The most
tardy was in gap just showing their
leaves 27 May.



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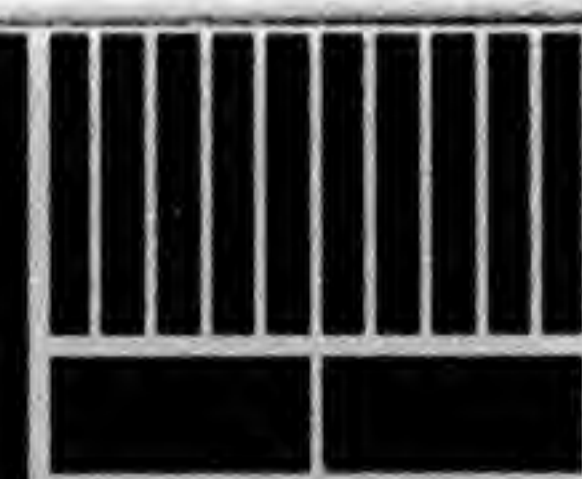
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Q. Douglasii? *Q. laevis*? (White oak, deciduous lobed leaves). -
^{Monte Sibley, May 1862}
very common here, often 3 ft. in diam², but
generally less. Timber considered the hardest
and toughest of any here. Ship builders use it.
Called here "Mountain White oak". It grows over
the foothills, while *Q. tinctoria* keeps the plains
& valleys. Many trees retain their old leaves until
the new make their appearance - becoming almost
evergreen.



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P. Douglas
Linn.

The very small
 generally in the
 and the
 called the
 the foot hills, which
 + rolling. Many trees
 the very small
 mountains.

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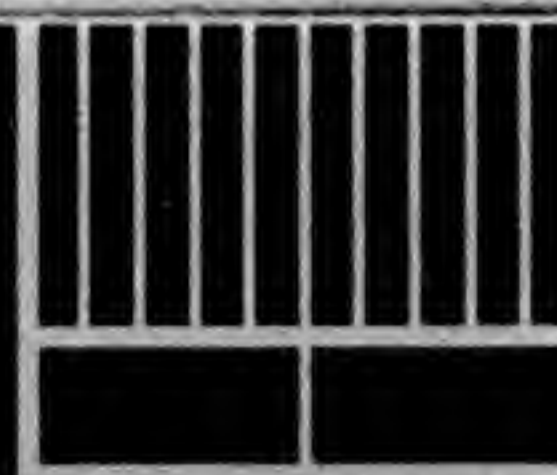
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Memoranda - Walnut Creek, May 1. 1862

Q. Californica^{Sonomensis}, a fine tree on ridge measured

10 ft. 4 in. in circumference.



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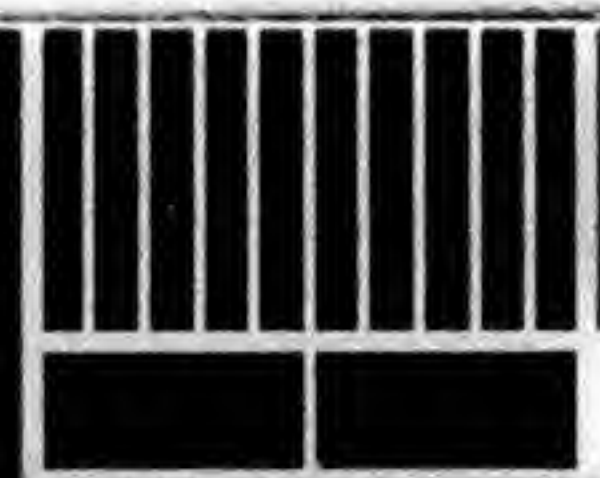


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Mem²

Mt. Diablo. - May 6-25. 1862

Q. agrifolia. - just flower in valleys, in flower
on the hills. One measured 16 9/16 in cir-
cumference, with head of dense foliage
120 ft. in diameter. Near the brook, the
finest specimen of the species.



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Mr. W.

Mr. H. W. - May 2-21 1862

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Q. agrifolia in yellow, in the
on the hills. The measure 1 1/2 in
cupform, with head of green
150 ft. in diameter. Near the
fringe of the



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Marsh's Ranch, near Monte Diablo May 1862

Lobata Q. Hindii covers plain by the house, a widened

cañon, making a lovely park, many of the trees perfect studies for the painter. The

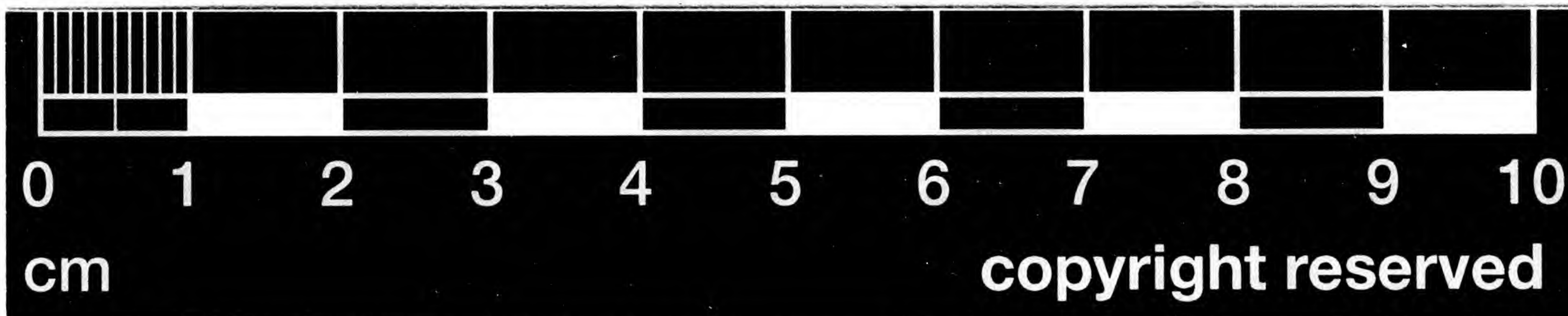
following measurements were made $3\frac{1}{2}$ feet from ground. - $18\frac{9}{16}$ - $18\frac{5}{16}$ - $18\frac{1}{16}$ - $15\frac{6}{16}$ - $14\frac{1}{16}$ - $17\frac{9}{16}$ -

$17\frac{1}{16}$ - $17\frac{5}{16}$. This was cut down and was about 260

years old. In the last 100 yrs. only 6 in. had been added to the radius. A limb 22 in. through, was 175 yrs. old. -

$21\frac{4}{16}$. About 100 to 110 ft. high. Had a diameter of head of 125 ft. and was perfectly symmetrical.

$16\frac{7}{16}$ - $15\frac{6}{16}$ - $20\frac{7}{16}$ A most magnificent tree, 80 to 90 ft. high, and head 100 ft. in diameter, the limbs drooping on all sides in great arches, some touching the ground. - $16\frac{7}{16}$ - $14\frac{1}{16}$ - $14\frac{6}{16}$ - $19\frac{9}{16}$ - $16\frac{5}{16}$ - $15\frac{4}{16}$ - $15\frac{3}{16}$ - $20\frac{7}{16}$ - $16\frac{9}{16}$ - $14\frac{4}{16}$ - $16\frac{9}{16}$ - $20\frac{4}{16}$ - $15\frac{1}{16}$.



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Wanda's Run, near West Gate May 1892

Counts R. H. ...

... marking a large ...

... for the ...

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... from ...

... 18/ - 17/ - 16/ - 15/ - 14/ - 13/ - 12/ - 11/ - 10/ - 9/ - 8/ - 7/ - 6/ - 5/ - 4/ - 3/ - 2/ - 1/

... 100 ft. ...

... 25 in. ...

...

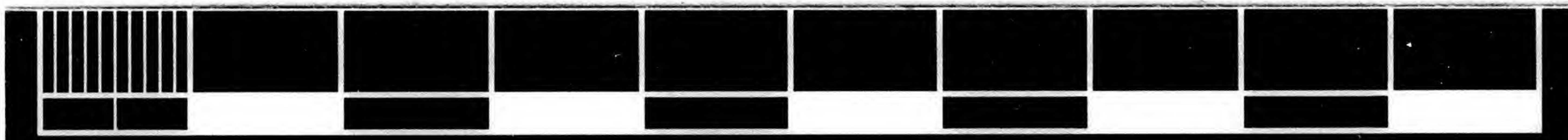
12/ - 11/ - 10/ - 9/ - 8/ - 7/ - 6/ - 5/ - 4/ - 3/ - 2/ - 1/

... 100 ft. ...

... in ...

... 10/ - 9/ - 8/ - 7/ - 6/ - 5/ - 4/ - 3/ - 2/ - 1/

...



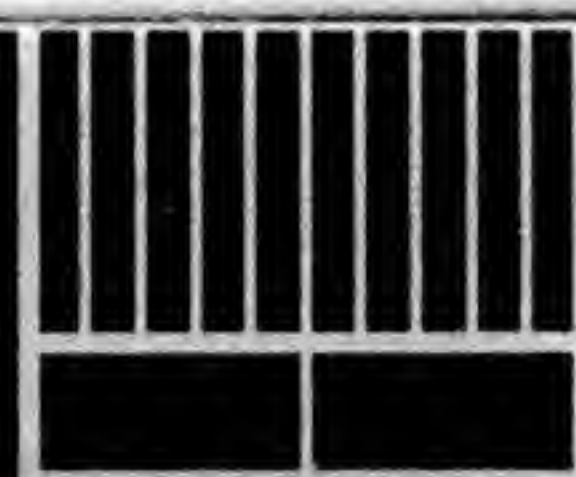
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San Joaquin plain Jun 4
1862

Douglasⁱⁱ ^{g.} — ? On north slopes of Metamorphic
hills, many 2 or 3 ft. in diam. A number
measured 8 to 9 1/2 ft. in girth. Not a low tree,
bark light, rather smooth (not deeply furrowed).
Habit so open that it does not cast a dense shade.



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6370

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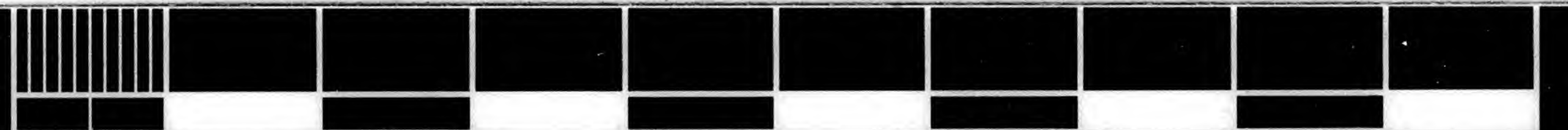
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North of Hollenbeck's. June 26, ¹⁸⁶² *Q. Hindii* grows
over the hills to 1500 ft. alt. above camp, with
Q. agrifolia & *Q. Garryana*. About 21 Mile
House many trees of *Q. Kelloggii*, *Q. Hindii*
& *Q. ~~Garryana~~ agrifolia*, all large - and
Q. Garryana only seen on the dry gravelly
wash from metamorphic hills, especially
siliceous gravel. Many *Q. agrifolia* were of
immense size, one measuring ~~about~~ 21 ft. in
girth, and several others seen as large or larger.
Following dinner.

June 25 on
Peckero's Peak

East of Monterey
to Monte Diablo
Range

1314 app



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North of Hoboken, N.J. June 25. 1852. *D. tinctoria* found
 on the hills at 1200 ft. alt. above camp, with
D. stricta of *D. grandis*. Above 21 miles
 from camp, many trees of *D. tinctoria*, *D. tinctoria*
~~*D. tinctoria*~~, *D. tinctoria*, *D. tinctoria* - and
D. tinctoria only seen on the hills generally
 near from Hoboken. *D. tinctoria*, especially
 in the lower part. *D. tinctoria* was of
 numerous size, an ~~many~~ size in
 clumps, and some other seen as they were
 of *D. tinctoria*.

June 25
 Hoboken, N.J.

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1462. ^{not found} Acorns of *Q. Garryana*. Near Shasta.

- 1463. coll " " " " from large tree in valley
Oct 2^d 1862 of Cow creek. ^{near Shasta} All the acorns on the
tree were of this shape.

1464. ^{not coll} Acorns of *Q. Garryana* from dry lava and ash
hill near Cow Creek. All on the trees
of this shape, but the foliage essentially
the same as on the trees from which
the preceding were taken. Acorns all glan-
cous with bluish bloom.



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1865

Oct 5, 1865

Oct 5, 1865

1865

Account of P. ...

of ...

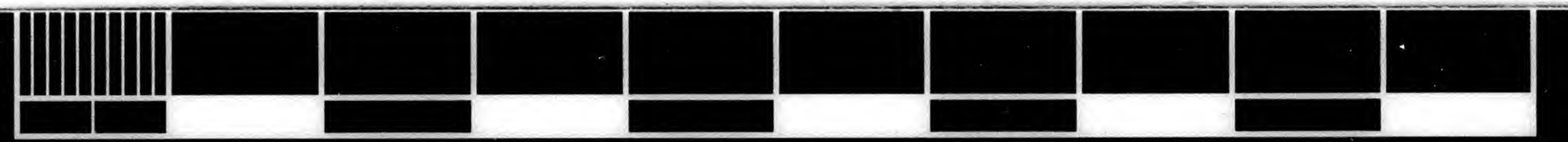
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Account of ...

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1465.

coll.

Acorns of *Q. Huicidii* from Sac^o Valley near River's
Ferry. This the characteristic form of
the acorns of this species seen
here.

Oct 1862



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1892
6373

1892
6373



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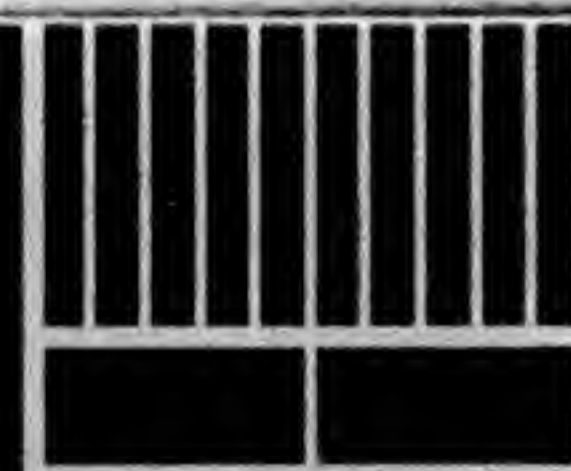
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1476. Near Napa. - *Q. agrifolia*, fruit. This the common
^{north of the bay} form on the tree. A small tree was seen
near Sonoma with short curved acorns,
like a certain form seen on a creek
near Battle Creek.

1477. Sonoma valley, - Oct. 29. *Q. kelloggii*. acorns.



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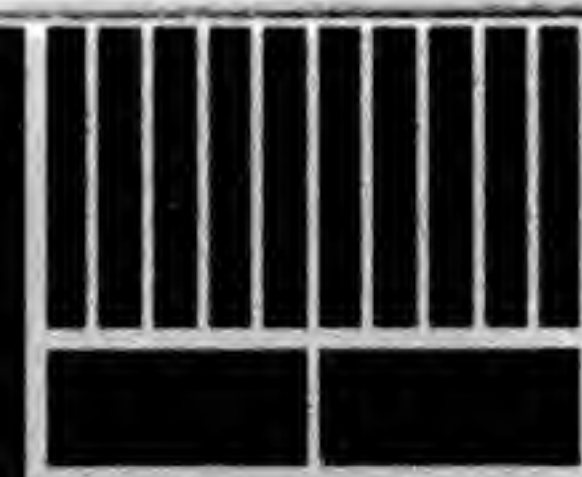
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March 1865 *Q. Californica*^{Sonoranis}. Black Oak. But just coming into flower
New Almaden & wash at mouth of cañons, but entirely bare on
the hills. Abundant on sandstone ridges at 2,000
to 3,000 ft. alt. Open over 5 ft. through. Bark almost
black.



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6375

Asplenium *platyneuron*. Mack Lake. Not first coming into flower

+ back at mouth of canyon, but certainly here on

at 5,000 ft. in canyon. *Asplenium* *platyneuron*

at 3,000 ft. *Asplenium* *platyneuron*. Mack Lake

Missouri Botanical Garden
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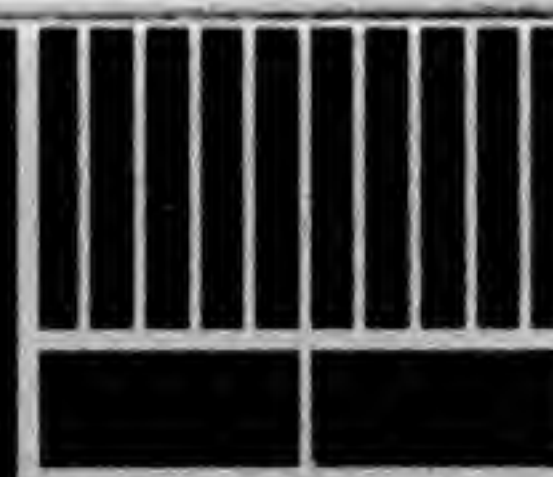
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March 1863

Q. fulvescens. Sa. Craig Mts. Acorns & cups ¹⁶ generally smaller than seen about Shasta.
Cups very fulvous.



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~~2~~ 165 San Gabriel Mts.
Q. dumosa on North or shady side of
hill in Canon. Shrub 20
feet high - quite
abundant - stems much
branched - bark very like that
of Q. alba on trees of 4 or 5
inches in diameter or of same
diamet as specimens



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1491, 1492 are mosses. Probably should be 1091,
1092.

2730 } I have no clue to
2916 }
4650 }

I can give you localities
for Blandin's numbers, if you
wish.



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6378

1895
1095
P.
1895

[Handwritten scribble]

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1895
1895
1895

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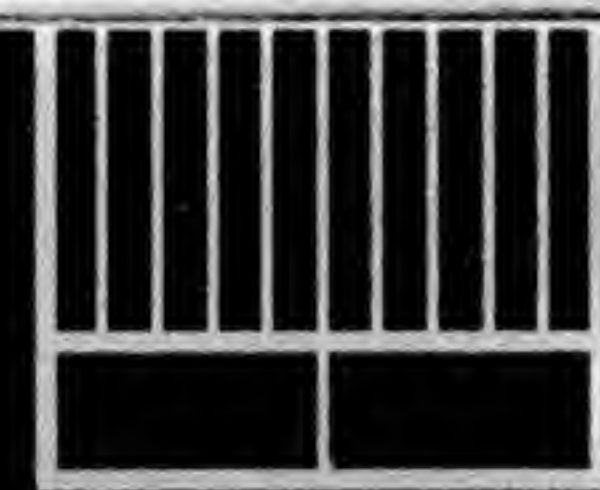
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Mem. - At Red Bluffs and north to Shasta no *Q. agrifolia* seen. Much *Q. gambellii* ^{on upper Sacramento} ^{variance} about Red Bluffs and over all the gravelly table lands to Shasta, on the dry hills, etc. Timber called very brushy by everybody. But little *Q. tinctoria* seen.



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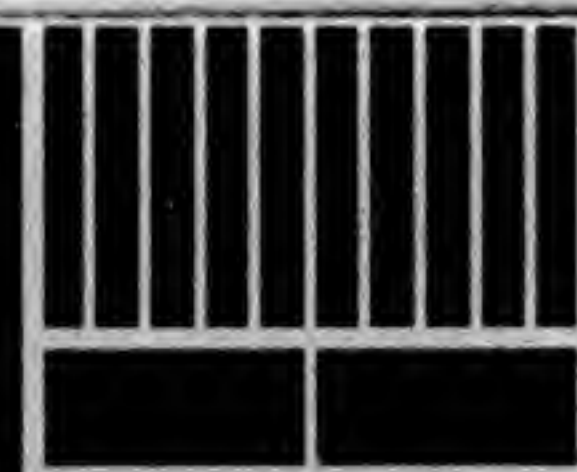
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1420. Mt. Shashba. - Sept. "Castanea". Formus large
patches like Chapporal, 2 to 5 ft. high,
with fruit & flowers on same bush.
Flowers very beautiful in contrast between
upper & lower sides. 3-6,000 ft. alt.



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Oct. 10. Near the Oregon line (about Eureka) over the mountains is much oak Chappard, with leaves like *Q. Hindii*. *Q. Hindii* is in the valley of Cottonwood Creek with enormous acorns; plant very large in comparison with the cups.

In the cañon of Klamath R., between Scotts River + Hopping Camp, the oaks are *Q. Californica*, *Q. fulvescens*, & *Q. Hindii* ^{*Sonomensis*}



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Missouri Botanical Garden

Engelm.

Dear Dr. Engelman!
I am very sorry to hear
of your illness.



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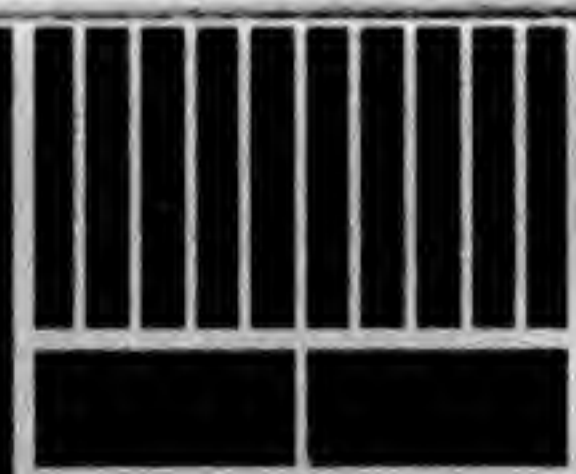


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Mem^m. New Almaden. - Mar. 5. 1863

Oak. (the var. of agrifolia? with glabrous ovate leaves)

Q. wislizeni? seen on ridge near Uvas Creek, 12⁹ in girth. At
6 ft. from ground measurement 9 ft. Acorns conical
polished, striped.



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MISSOURI
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6382

1883

Mar 2

New Orleans

Missouri

Bot. (the var. of *Asplenium*? with *Asplenium* var. *leaves*)

15/10 in fruit. Br.

Asplenium *leaves* of fr.

Asplenium, *leaves*

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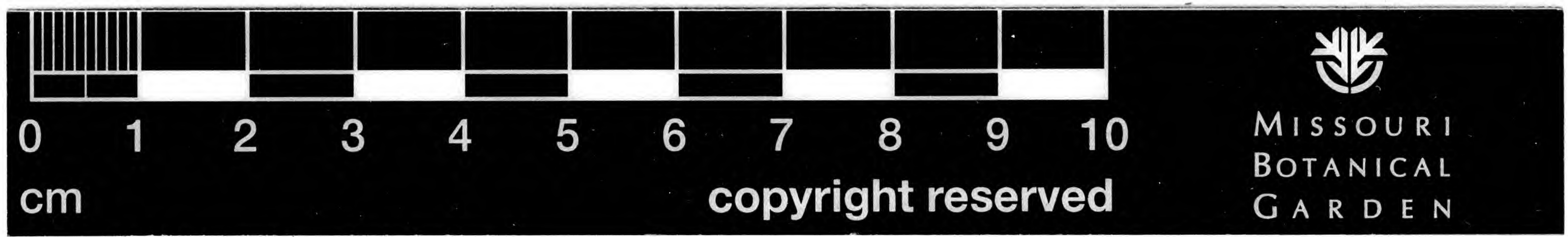


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The specimen of *D. glauca*, was
 found in the first autumn, and
 was not in flower that year.
 There are only a few specimens.
 The specimen of the year 1847, covered with
 fungus. This also found growing in
 soil of 1847, but for most specimens in
 the year 1847. The fungus

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The specimen of *D. glauca* differs in
 leaf form and growth, but was
 the same of the latter one more
 or both surfaces, although the upper
 surface is covered with a blue-green



Mem. Among the prevailing trees of the ^{Yosemite} valley are
June 18
1863 *Q. Californica* (Kelloggii) very large; and *Q.*
fulvescens, mostly in ravines.

Mem. July 19. (Coming across the Sierras by Sonora
1863 Pass, down the Stanislaus to bridge at 5,500-6,000 ft. alt.)
Q. Californica first seen 500 ft. above camp, & not
rare here.

1863 July 22. Came on to head of Sugar Pine Creek through
forests of sugar & pitch pine - 2 species of *Picea* -
& Black Oak sparingly.

1863 July 23. Came on to Sonora - at 9 to 10 miles back of
Sonora came first to *Q. Garryana*, ^{*Douglasii*?} on low
hills.

1863 July 29. From Murphy's to Big Trees. *Q. Californica*
all the way. Chappard Oak on the hills. No *Q.*
fulvescens seen. (*Q. arizonifolia*?)



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Among the interesting ones of the valley are
D. Californica (Kellaghan) var. long; and D.
fulvovirens, mostly in remains.

July 19. (coming across the divide of course
low, over the straits to bridge at 2,000-3,000 ft. alt.)
D. Californica first seen ~~at 2,000 ft. alt.~~
over here.

July 22. Come on to head of deep thin creek through
forests of ~~pine~~ - 2 species of ~~pine~~
+ 12 leafy oak specimens.

July 23. Come on to town - at 10 miles back of
is now come first to ~~D. Californica~~, - ~~at 10 miles back of~~

July 24. From this trip to this town. D. Californica
all the way. ~~Chaparral~~ ~~at 10 miles~~
fulvovirens seen.

MISSOURI BOTANICAL GARDEN
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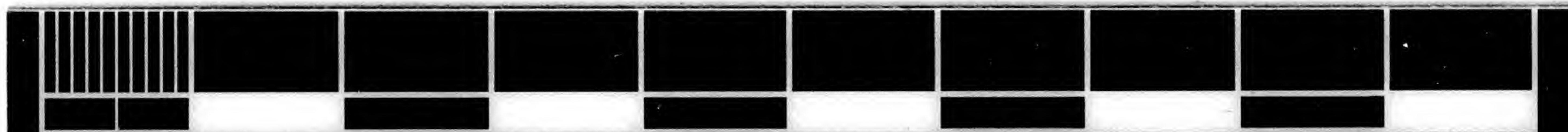
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Oct. 24. 1863. Visited a tanner a few miles E. of Waldo, Josephine
Co., Oregon. He uses black oak bark (*Q. Calif^a*), which
is thicker than the white oak bark used east. It
makes firm leather, but is darker than that tanned
with the E. white oak. A mixture of *A. Douglasii* makes
heavier leather. The white oak of this region has too
much thick outer bark, often 3 to 5 inches. Many white
oaks in the valley with thick round acorns, very light
colored bark (like *Q. alba*), leaves glossy above, but habit of trees
precisely like *Q. Hindii* in Calif^a.

Garyan?



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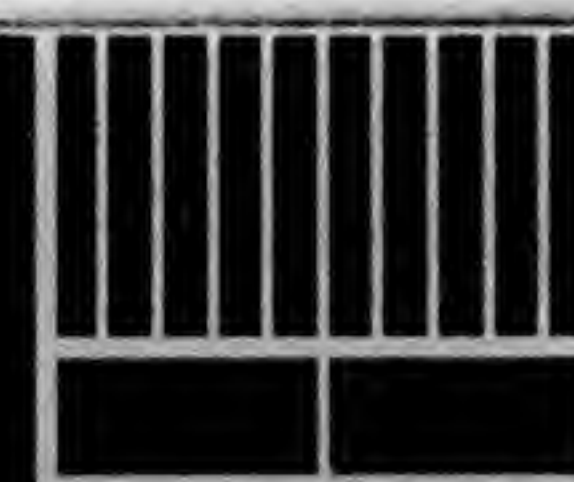
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1449. Stream near San Jose. - Dec. 5. - *Q. arnifolia*.
Prevailing form of acorns here.



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