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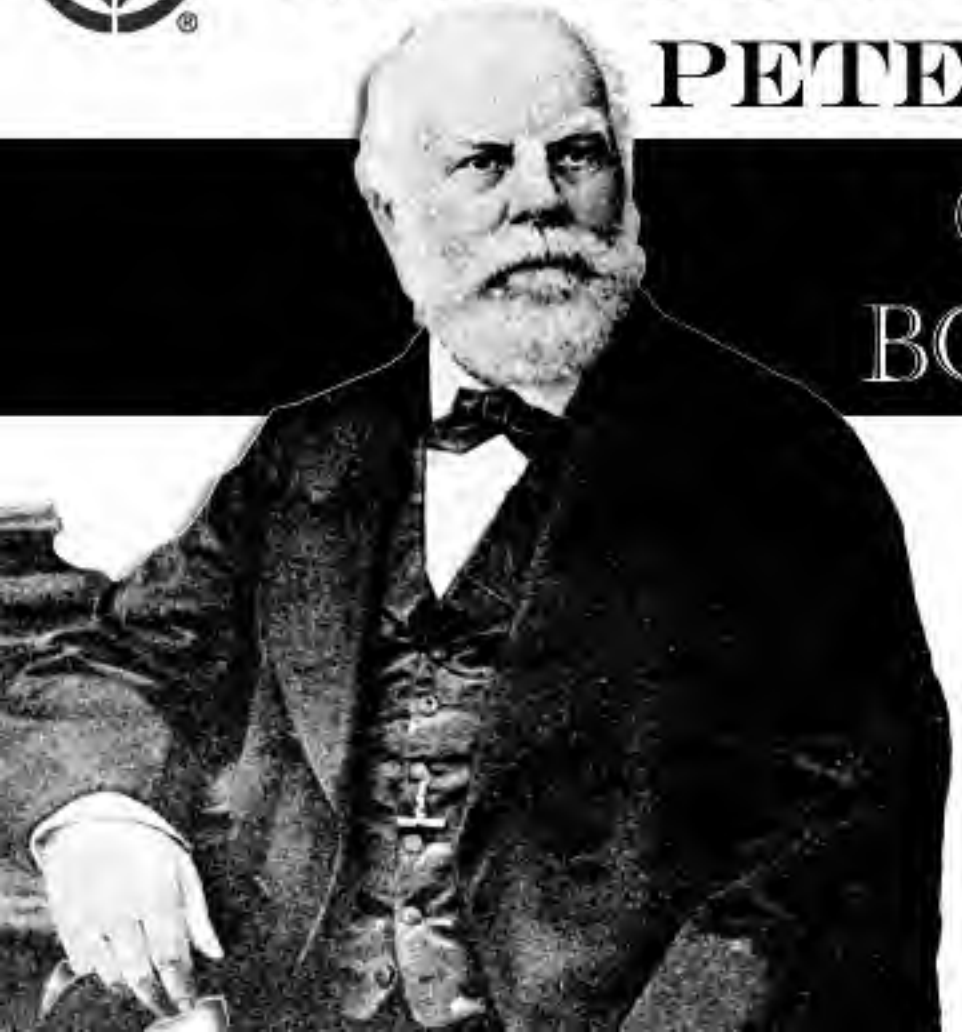

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Dec 30 1878

As to Junipers, I am all at sea about them.

Can you send me the names of the following Junipers.

Guadeloupe Isl — Palmer 91. S. California

New Mexico — Fendler 834, 835 occid. Virginian 1835b.

" " Wright 671 - 1890. oct. conjugens pachyphloea

California. Bridges 290, 291 328 Nitro by Southern Pacif. = J. occidentalis expansus

Lobb 438 Calif.

Rocky Mts — Geyer 506.

Numbers J. Virginian organ-bearing Sierras

With kind remembrances to Mrs Engelmann & yourself

Yours truly

S. Watson

? I shall be so thankful should also for the name of Zgalen Conifers.

Further leaves of Thuiopsis grandis or what two supposed to be it — bark very dark. We have no pale barked Abies in California (as in Colorado)

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1735-96

Juniperus

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March 13 '76

I Bacca major sicca fibrosa, mfo-caesia

semina singula (rarius bina)

J. Mexicana folii serrulata

J. Osteosperma folii fimbriato - ~~serrulata~~ ciliata

J. Utahensis folii serrulata

semina plura (2-5)

J. flaccida (pachyphloea) folii obsolete serrulata

II Bacca minor pulposa, atro-coerulea

~~semina singula (seu bina)~~

~~J. tetragona~~

folia serrulata (brevia obtusa)

J tetragona folia bina, semina singula

J. occidentalis folii terna et bina semina singula - terna

folia integerrima (acutiuscula vel obtusa)

J. Sabina prostrata folii bina semina singula - quina

folia integerrima (acuta rarius obtusa obtusa)

J. Virginiana

J. barbadensis ? glandula linearia folii oblonge linearia obtusa

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Mr. Dr. Engelmann 13109

Sir:

The annual election for three trustees of this Association, to serve for one year, will take place at the "Anzeiger" Office, Monday, January 26th, 1874. Polls open from 1 to 4 o'clock, P. M.

CARL DÆNZER,
CHAS. SPECK,
FRANCIS CORNET, } Trustees.

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Juniperus

Cotyledons seen

4-6 J. osteosperma New Mexico, State Survey 792

5 ——— Utahensis, Camp Apache, D'Grand

2 J. Mexicana, Chiricahua, Mexical del Monte

2 J. pachyphlœa, Prescott, Arizona Parry 1867

2 J. occidentalis, tenuior, Mt Bruneau Lindheimer 1848

2 ——— intermedia Colorado, Greene 1873

2 ——— ——— Oosiguwachi Wislizenus 229

2 ——— pleiosperma Monolake, Boland

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Highth of Conifers
fide DC Prod p. 437 et

J. drupacea	30'
macrocarpa	15'
Oxycedrus	9'
Cedrus	excelsa 2-3' diam
brevifolia	
communis	ad 45'
rigida	ad 20'
conferta	
Tax. foliis	arbor
recurva	ad 30'
pseudo Sabina	fruticx
Davurica	fruticx decumb.
Sabina	frut vel arbor
excelsa	ad 15'
fastigiata	9-12'
procera	arbor
phoenicea	ad 12-15'
thurifera	ad 15'
chinensis	ad 60-75'
sphaerica	arbor
virginiana	ad 45' 90' Gray
occidentalis	30-45'
pachyphloea	arbor
Bermudiana	arbor
Mexicana	20-30 & 70-90'
tetragona	3-6 feet
flaccida	20-30'

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Of the Sclerae of the old world.

J. chinensis (Hol) is much like Virginian

J. patidissima (~~Hol~~ coll Holmes) has the strongest

dentation, somewhat like pachyphylla,

J. phoenicea from Italy and Mauritania

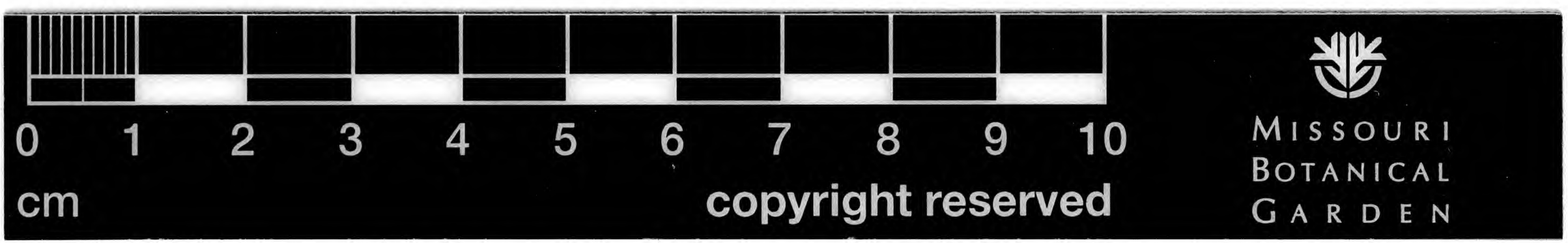
from Spain, rather less, similar to flavescens

expansa (coll Kotschy) still less, only little

more than sabina (Switzerland Coll Chaworth

Musgrave)

Winter glands on back



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C. V. RILEY, *Chief*,
St. Louis, Mo.
A. S. PACKARD, JR., *Sec'y*,
Salem, Mass.
CYRUS THOMAS,
Disbursing Agent,
Carbondale, Ill.

Department of the Interior,

OFFICE OF THE

U. S. Entomological Commission,

HEADQUARTERS,
Cor. Sixth and Locust,
St. Lous, Mo.

EASTERN OFFICE,
Hayden's Survey,
Washington, D. C.

Nov 15, 1877.

Dear Doctor,

I send the enclosed description in the form

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stomata entirely on upper side of Coniferous (white) none on lower (spirit milk by feeders

white side of leaves of P. Menziesii above with stomata.

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LEITCH,

PHARMACEUTIST,

urth & Olive Sts. St Louis, Mo.

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Juniperus notes from Parlatore DC Prod XVI. 2. p. 475

Juniperus: flores monoici — galbulus secundo anno maturus — cotyl. 2 (interdum 3)
folia basi articulata vel adnata

J. Sabina bracteis ♂ integris galbuli atro-coerulei glaucedine alba tecti nucules 2–1 rari 3–4

J. Virginiana ament ♂ in ramulo brevissimo erecto, bract integr; galb sqm 4–6 fariis nuc 1–2
Tepes Berlandier 2079

J. occidentalis fol ramulorum [terminis?] ovatis acutis ament ♂ subquadrangulis, bracteis orbicularibus integris; galbulis ovali-subglobosis majusculis, nitentibus-fuscis glaucedine alba tectis, squamis 6–9 bifariis; nucules 2–1 majusculis
J. lethogon von ostro Sperr
Syn: chamaecyparis Boursieri Duc

J. pachyphloea fol acutiusculis mucronatis tenuis; galbuli nitentibus — sqm 9 trifar

J. Bermudiana bract ♂ acutiusculis integris.

J. Mexicana cortice cinereo secedente; fol ramulorum 4-fariis acutis mucronatis glandula Oleari notatis, marginibus obtusiusculis; bracteis ♂ subdenticulatis — galbulis majoribus ovoideoglobosis nitentibus sqm 6 ovatis, nucules 3–4 Wislizeni 229 Jimapa Ashuelo Berlandier 1169
galb 12–14 millim longi

J. tetragona fol (saepe terni), marginibus acutis subtriangulis — ament ♂ tetragoni, bract subintegris; galb fusco-violacei albo-pruinosi 5–9 mm lonq, sqmis 6–4 fariis, nucules 3–4
--- Berlandier 1869 [see J. Mexicana] pratis 3–6 pedalis, nucule intendo ex ustio
11–12 mm long

J. flaccida fol pendentibus galbulis solitariis e nitro fuscis — sqmis 6–8 nucules 5–6 —

J. Cerrosiana

J. platyderma

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April 22d 1874

Juniperi Sabinae Americanae

Caesius
Ashe
saccharinus

I Fructus major rufo cinereus siccior fibrosus

Linnaea 5.77 DC. 491 crassior dorsum dorsali
1. **Juniperus Mexicana** Schlecht folia acuta plerumque 4-faria; glandula hemisphaerica magna sicca

a. **Typica monosperma** Schlecht in Hb. Berlin Llanos de Perote 1828

Hartweg 433 in Hb Kew & Berlin Real del Monte 1838

β. **pleiosperma** C. Ehrenberg Mineral del Monte ex Hb Berlin [cotyled 2]
" " & Cuesta blanca No. 256 & Real del Monte No. 7 in Hb Berl.

636 Dr Gregg Real del Monte 1849 Hb. E Dr Wislizenus No. 230 Coatzacoalcos Hb. E.

1169 Berlandier in Hb. Berlin Uhde 68 in Hb Berlin

2001 Seemann, Sierra Madre, in Hb Kew

Whipple Rep. Pacific IV. 144 Lemmon 1857 DC. 490 crassior
2. **J. pachyphloea**, Torrey folia acuta 4-faria, gland. dorsali parva resinifera

plantae saepius glaucae

Zuni, Dr Woodhouse 1851 Hb. Torr & Hb Acad Phil

Emory, Copper mines 1846 in Hb Torr. Bigelow ibid. in Hb Torrey

Dr Parry, Mount Carmel on Rio Grande in Hb. Torrey

" Arizona 1852 ib, (Prescott) 1867 in Hb Torr & Engl.

Fort Whipple Arizona, Cones & Palmer 224 1864. Hb Engl.

Wright 1890 N Mexico. in Hb Engl & Gray.

Linn. 12.495 DC. 492 tenuior
3. **J. flaccida** Schlecht folia acuminata squamosa 4-faria pleiosperm

Ehrenberg, Regla, in Hb Berlin & Jimapan 1112 ib.

Hartweg 435 Regla 1838 in Hb Kew. Jimapan 377 Ehrenberg in Hb Berlin

Coulter in Hb. Gray 1419 Dr Gregg, Saltillo 432 1848

Gilestti No. 10 in Hb Kew.

Rio de las Vueltas Cajaca Liebmann in Hb Kew.

California Carr Rev. Hort. 3.352 (1857) Coniferae occid. DC. 490
4 **J. osteosperma** Engl. crassior folia obtusa acuta adpressa plerumque 6-faria, cotyled 4-6

a. robustior Typica scales of fruit generally in

California San Gabriel 110. 111. 112. 126. State survey

— Monte Diablo 840. State Survey

— Cerros isla; Kellogg in Hb Torrey.

— Nice Sierra 792 State Survey. Cotyledons 2 only

— Santa Lucia Mts. Dr W W Hays 1874

Types { Zuni Dr Bigelow 1853. in Hb. Torr
Little Colorado Dr Woodhouse 1851 in Hb Torr & Hb Philadelph
2-Lieut. Fremont 1842 in Hb Torr, no number or locality
Cobb in Hb Kew 438 Bridges 291 in Hb Kew
~~b. Tenuior, scales of fruit generally in~~

Bear Mountain, Torr. 1865 in Hb Torr
Bear Valley Boland & Keller 1872 in Hb Torr.
San Filipe, Dr Parry 1850 in Hb Torrey
Foot Hills of Sierra Nevada Torrey. 1865 in Hb Torr

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California var Utahensis

4 I. osteosperma β. tenuior scales of fruit generally in 2s

Utah Camp Floyd H Engelm 1859 in Hb Engelm

— Provo Parry 1874 Hb E

— St George " "

Arizona Camp Apache Dr J D. Grand 1874 Hb E

" " " G. H Gilbert 1873 Hb E

" Fort Whipple Cones & Palmer 1865 — Hb E

Nevada, Fremont 1845 Salmon trout River Hb Torrey

" Utahia Mountains S. Watson in Hb Torrey

II fructus minor atro coerulens pulposus ~~cellulosus~~ terebinthinaceus

5 ~~I. tetragona~~ Schlecht. I. occidentalis Hook Fl. bor am 2.166. Dr. 489

a. genuina pleiosperma ~~Columbia~~ & Columbia (Lewis) Douglas (n fr) in Hb Kew

conior, supius 6-seria (Oregon & north Calif)

I. excelsa Pursh 2. 647 not Desf.

I. Andina Nutt Sylv 3. 95. t.

Rocky Mountains Nuttall in Hb Gray (n fr)

Mono Lake, Bolander Hb. E. 328 M. Bridges in Hb. Torr. (feed export)

Klamath region. Fremont 387. 388. 389. in Hb Torr. E. & Agric Dep.

— Jeffries 743 in Hb Bailey

— Wilkes Expl. Exp. in Hb. Agric. Dep.

Carson Nevada, N 1855. Calif. State Survey.

High Sierras Tamalpais 911 State Survey. } to the next form

6. intermedia scopius 1 sperma, folia 4–6 seria. (Rocky Mts & ~~Oregon~~ Calif

Colorado, Greene 1873 Hb. E

New Mexico Fendler 1847 N. 834 Hb. Torr. Gray E Wislizenus 1846 N. 536 Hb E

Cosiguriachi Wislizen 1846. N. 229 in Hb E

California ~~[illegible]~~ near Cerro Gordo, Bigelow in Hb E. Calif. State Survey N 1855

~~Organ Mts. Parry in Hb. Torr. Wright. 1851 & 671 672 in Hb Gray~~

~~Pecos Bigelow in Hb. Torr.~~ Arizona Cones & Palmer in Hb E

Juni Bigelow in Hb Torr, Schweinitz Exp. in Hb Torr

Copper mines Emory in Hb Torry

γ. (tetragona) tenuior plerique 4-seria 1 (2) sperma.

Texas, Lindheimer 1848–1850 in Hb E Berlandier 671. 2081 in Hb. E. & Gray. Pecos Bigelow in Hb Torry

New Mexico Wright 1851 Hall, Austin, 615 Hb. E. al. Wright 671 & 672 in Hb Gray

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6. S. tetragona Schlecht Lin 12. 495 DC. 491

a. genuina pleiosperma

Real del Monte Ehrenberg 1835 ex HB Berlin No 6

— — Hartweg 436 ex HB Kew.

Uhde 63 ex HB Berl. — Linden orig. 6 ex Galeotti capsules 12 ex HB. Kew

b. genuina meiosperma

Sellow Gregg. 398. ex HB. E Gregg. 106 ex HB E

c. leptoclada (1. spem)

Jimapan. 381 Schiede ex HB Berl.

Cordillera Sartorius ex HB Torr.

d? integrisepala 2–3 spem.

Mexico, Uhde, 67 Barranca del Rey

7. S. Cubensis Cyc

Cuba Wright 3187.

8 S. Sabina L sp. pl. 1472 DC. 483

2. New Brunswick, J. Fowler. ex HB Gray

3 Bergen swamp. North N. York, J. A. Payne ex HB Gray

4 Manitou island, Lake Michigan Engelm. 3-5 seed Chicago Fowler

8 Cascade Mountains Lyall ex HB Gray 1 seed

5 Yellowst Hayden ex HB. E 2-3 seeds

6 Head of Yellowst Parry 1873 ex HB E No 264

7 Fremont 165 (1845) ex HB Torr. Agric. Expl. 1-2 seed Upper Arkansas ?

1 Hudsons Bay Country, Richardson ex HB Kew

9. S. Virginiana Mill sp. pl. 1471 DC. 488

~~North Arizona J. M. Gilbert & J. D. Graham 1873~~

~~New Mexico Fendler 1835 HB~~

~~Colorado Ed. Greene 1873~~ North & north western

3 Washington Terr. Wilkes U.S. Expl. ex HB. Agric Dep.

5 Vancouver D. Lyall. 1858–9 ex HB Gray

4 Fraser River H. L. Jones 1865 ex HB Edsall.

1 ~~Hudson HB Wilkes~~ Hudsons Bay Territory, Burke ex HB Kew

2 Oregon & Washington Terr. Ch. Geyer ex HB Kew

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Eastern & middle

New York G. E

Niagara G. E

Michigan H Gillman

Minnesota Dr Parry 1–2 seed

Kentucky Dr Short

Missouri G. E Arkansas G. E.

Florida Mickx in Hb Torr

~~10 Junip. Bermudiana Lin~~

~~Bermuda in Hb Kew~~

Westward & southward

Cedar island Hayden

Fork of the Platte H Engler. 2 seeds

Fort Arbuckle Dr Palmer in Hb Torr

Texas Drummond 347 in Hb Gray

Rocky Mountains, Colorado to Arizona

Pole Creek H Engler

Colorado E Hall 2 seeds, also 4!

C L Greene

Colchetopa pass Gunnison in Hb Gray

Wagon Mound, Wislizen. 583

Santa Fe Fendler 835 2 seeds

Camp Apache Dr J. B. Grand 1873 1–2 seeds

Northern Arizona, Sierra Blanca G. K Gilbert 1873

10 Junip. Bermudiana Lin sp. pl. 1471 DC. 490

Bermuda in Hb Kew.

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Juniperus Sect Sabina

	1		Fendler 834	Americanae	
	1		Wilkes 536	Zuni Woodhouse x Bigelow	3
Sem.	1	J. Occidentalis Hook	~~New York Expt~~	Colorado Greene	
	1			Sierra Nevada 1917 1855	3
	2			Texas Bigelow	2-3
				Fremont 387. 388	(2) 3
				~~Fresno River~~	2
	2			~~Zuni Bigelow~~	
				Klamath 743	2-3
	2-3			Mono pass Calif	3
	1	J. Virginiana L.		Conjunctiri Wisl 229	
	1			Gregg Schillo 106	
	~~1-2~~			~~Wilig N Mex 536~~	
	1-2			~~Fremont 165~~ pedun recurv	
				Bartlesier 671 2081	
	1			Fendler N Mex 536 ~~834~~	
	1			Lutheran Texas	
	1			Hall Texas	
	1-2			Gregg. Schillo 398	
	1-2			Fremont 165 pedun recurv	
	2-1		Typical	Kinnawick GE	
	2-1			Texas Wright	
	2			Colorado Hall	
	2			Weehawken NY. GE	
	2-(3-4)			Platte H Engelm	
	1	Osteosperma	Type	~~Colorado Chipeta Woodhouse~~	(2)3
	1			San Felipe Parry	3
	1			Monte Diablo 840	(2)-3
	1			Zuni Bigelow	3
	1			San Gabriel 126. 127. 110	3
				111 112	
	1		(Cerosiros)	Tonto pass Hills	2-3
	1			Kellogg	
				~~Little Colorado Wm Harry~~	
	1			Tonto 505 Bearmountain	
	1-(2)			Camp Floyd, H Engelm	2-3
	1-(2)			New Doria 791 792	(2)-3
	2			Conjunctiri Wisl 230	3
	?			Watson Nevada 1122 Hitchcock	
	2-3	pachyphloea		Cupressinus Bigelow	3
	3	pachyphloea		Parry Arizona 1867	2-3
?	(3-(4)) 2	J. virgin Gray		Wright 1890	2-(3)
	3-4		Type	Yampai Creek Woodhouse	(2)
	3-4			Schillo {423 636 Gregg	2
	3-4			Real del Monte 636 Gregg	2-3
	4			Rio Grande Parry 1852	
	?			Emory 1846	

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Yours Respectfully

J M Edgell Pr

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Juniperi recd in Febr 1874 for Agricult. Department, and returned in March under the following provisional names

J. osteosperma var Utahensis Fremont, Salmon trout River 1845–7

J. occidentalis var pleiosperma Fremont 389. 1846

J. Virginiana Wilkes Expl. Washingt. Terr. sub nom occidentalis

J. occidentalis var pleiosperma North Californ Wilkes Ex

" " " Fremont 388

" " " " 387

J. Sabina var ~~prostrata~~ cumbens Pursh Fremont (upper Arkansas?)

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Dear Dr.

The baby is broken out quite thick with an eruption. I do not know what it is, & I would like you to come over and see it. We took a long ride yesterday, but I have been

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