The San Diego Commercial College

A Practical Business School
For Young Men and Young Women.

NEW SEFTON BLOCK, COR. 4TH & C Sts.

We teach Business Arithmetic, Good Writing, Spelling, Business Law, Book-keeping, Business Letters, Practical Grammar, Shorthand, Typewriting, and Business Papers.

Call or write for information

F. W. KELSEY
C. I. JENNEY
} Proprietors.

28 APR 1937

The West American Scientist.

VOLUME XVIII. WHOLE NO. 134.
AUGUST, 1911.

CACTUS INDEX.

Since issuing the last part of my Review of the Cactaceae, there has been great activity in the study of these plants, and many new species have been proposed.

It is our hope to bring all these descriptions together, but for the present I can only attempt a partial index to some of the descriptions, with type localities as given.

Grif=**GRIFFITHS, DAVID:** Illustrated studies in the genus Opuntia. Missouri botanical garden reports, 1908, 1909, 1910.
SMC=Smithsonian Miscellaneous Collections.

ARIOCARPUS LLOYDII Rose, CNH 13: 308 t 63. Hacienda de Cedros, Zac.
CACTUS MAXONII Rose, SMC 50:63 t 6, Near El Rancho, Guat.
ECHINOCEREUS BAILEYI Rose, CNH 12:403 t 56 et 57. Mt Scott, Okla.
NOPALEA GUATEMALENSIS Rose, SMC 50:330 t 42 El Rancho, Guat.
NOPALEA LUTEA Rose, CNH 12:405 t 58. El Rancho, Guat.
OPUNTIA ALLAIREI Grif 1909:83 t 5, t 2 f 2, t 12, et t 13 f 9. Near the mouth of the Trinidad river, Tex.
OPUNTIA ALTA Grif 1910:165 t 19, 20. Near Brownsville, Tex.
OPUNTIA ARIZONICA Grif 1909:93 t 10, t 2 f 8, t 13 f 8 Kirkland, Ar.
OPUNTIA ATRISPINA Grif 1910:172 t 26. Near Devil's river, Tex.
OPUNTIA ATROPES Rose, SMC 50:518. Lava beds near Yautepec, Mor.
OPUNTIA BALLII Rose, CHN 13:309 t 64. Pecos, Tex.
OPUNTIA BLAKEANA Rose, CNH 12: 402 t 55. Tucson, Ar.
OPUNTIA CAERULESCENS Grif 1909: 86 t 6, t 2 f 9. SLP.
OPUNTIA CANADA Grif 1909:90 t 6, t 2 f 6, t 13 f 2, 12. S Rita mts, Ar.
OPUNTIA CARDENCHE Grif 1908:259, t 21. SLP.
OPUNTIA CASTILLAE Grif 1908:261 t 24. Mex.
OPUNTIA CHAVENA Grif 1908:264 t 33. Aguascalientes, Ags.
OPUNTIA COCHINERA Grif 1908:263 t 26. Zacatecas, Mex.
OPUNTIA CONGESTA Grif 1909:88 t 8, t 2 f 4 et 7, t 13 f 5. Near Hillside, Ar.
OPUNTIA COVILLEI Britton & Rose, SMC 50:5232. SBernardino, Cal.
OPUNTIA CYCLODES Rose, CHN 13: 309, based on O: Engelmanni var: cyclodes of E.
OPUNTIA DEAMII Rose, CNH 13:309 t 65. Guat.
OPUNTIA DELICATA Rose, CNH 13: 310. Calabasa, Ar.
OPUNTIA DEPRESSA Rose, SMC 50: 517. Near Tehuacan, Pue.
OPUNTIA DILLEI Grif 1909.82 t 4 f 10, et t 13 f 7. Sacramento mts, NM.
OPUNTIA DISCATA Grif 1908:266 t 27. Ar.
OPUNTIA DURANGENSIS Britton & Rose, SMC 50:518. Vicinity of Durango, Mex.
OPUNTIA EICHLAMII Rose, CNH 13: 310 t 66. Guat.
OPUNTIA ELLISIANA Grif 1910:170 t 25. Cult, Corpus Christi, Tex.
OPUNTIA FERRUGINISPINA Grif 1908: 267. Near San Antonio, Tex.
OPUNTIA FULIGINOSA Grif 1908:262 t 25. Guadalajara, Jal.
OPUNTIA FUSICAULIS Grif 1908:271 t 23. Cult at Aguascalientes, Ags.
OPUNTIA GILVESCENS Grif 1909:87 t 7, t 2 f 5, t 13 f 6. S Rita mts. Ar.
OPUNTIA GOMEI Grif 1910:167 t 21, 22. Near Brownsville, Tex.
OPUNTIA GUERRANA Grif 1908:266. Dublan Hidalgo, Mex.
OPUNTIA GUILANCHI Grif 1908:265. Zacatecas, Mex.
OPUNTIA HAITIENSIS Britton, SMC 50:513. Gonaives, Haiti.
OPUNTIA KUNZEI Rose, SMC 50:505. Pima co Ar.
OPUNTIA LINGUIFORMIS Grif 1908: 270 t 27. Near San Antonio, Tex.
OPUNTIA LUBRICA Grif 1910:169 t 23. Near Alonzo, Tex.
OPUNTIA LUCENS Grif 1908-269. SLP.
OPUNTIA MACDOUGALIANA Rose, SMC 50:516. Near Tehuacan, Pue.
OPUNTIA MACKENSENII Rose, CNH 13:310 t 67. Kerrville, Tex.
OPUNTIA MACROCALYX Grif 1908: 268 t 28. Cult in White Park, Riverside, Cal.
OPUNTIA MAGACARPA Grif 1909:91 t 2 f 3, t 13 f 10. Near Banning, Cal.
OPUNTIA MAGENTA Grif 1908:268. Near Redlands, Cal.

OPUNTIA MEGALARTHRA Rose, SMC 50:529. Near Pachuca, Hgo.
OPUNTIA MILLSPAUGHII Britton, SM C 50:513 Eleuthera Island, Bahamas.
OPUNTIA NELSONII Rose, SMC 50:516. Oax, et Pue.
OPUNTIA NEOARBUSCULA Grif 1908: 260 t 23. Ar.
OPUNTIA NIGRITA Grif 1910:169 t 24. Near Aguascalientes, Ags.
OPUNTIA PACHONA Grif 1910:168 t 22, upper f. Near Zacatecas, Mex.
OPUNTIA PALLIDA Rose, SMC 50:507. Near Tula, Hgo.
OPUNTIA PLUMBEA Rose, SMC 50:524. S Carlos Indian reserve, Ar.
OPUNTIA POLLARDI Britton & Rose, SMC 50:523. Biloxi, Miss.
OPUNTIA PUMILA Rose, SMC 50:521. Oaxaca, on road to Mitla.
OPUNTIA SINCLAIRII Grif 1910:173 t 28. Near S Antonio, Tex.
OPUNTIA SUBARMATA Grif 1909: 94 t 11, t 2 f 1, t 13 f 4. Near Devils river, Tex.
OPUNTIA TAYLORI Britton & Rose, SMC 50:520. Haiti.
OPUNTIA TEXANA Grif 1909:92 t 9, t 13 f 1. S Antonio, Tex.
OPUNTIA TOUMEYI Rose, CNH 12:402. Tucson, Ar.
OPUNTIA TRICOLOR Grif 1909:85 t 4. Laredo, Tex.
OPUNITA VIVIPARA Rose, SMC 52:153 t 12. Near Tucson, Ar.
OPUNTIA WOOTONII Grif 1910:171 t 26 et 27. Organ mts, NM.
OPUNTIA XANTHOGLOCHIA Grif 1910:166 t 20. Near Milano, Tex.
PERESKIA AUTUMNALIS Rose, CNH 12:399 t 52-54, based on Pereskiopsis a (Eichlam, MfK 19:22.
Genus **PERESKIOPSIS** Britton & Rose. SMC 50:331. Type: Opuntia Brandegeei Schum.
P: AQUIOSA SMC 50:331, based on Opuntia aquiosa Weber. Jal.
P: BRANDEGEEI SMC 50:331, based on Opuntia B. Baja.
P. CHAPISTLE SCM 50:331, based on Opuntia C. Oax.
P: DEGUETII SMC 50:332, based on Opuntia D (Weber). Jal.
P: KELLERMANII Rose, SMC 50:332. Trapichite, Guat.
P: OPUNTIAEFLORA SMC 50:332. based on Pereskia O (DC). Mex.
P: PITITACHE SMC 50:332, based on Pereskia p (Karw). Mex.
P: PORTERI SMC 50:332 based on Opuntia P (Br). Sin.
P. ROTUNDIFOLIA SMC 50:333, based on Pereskia r (DC). Mex.
P: SPATHULATA SMC 50:333, based on Pereskia s (Otto). Mex.
P: VELUTINA Rose, SMC 50:333. Queretaro.

———o———

Established 1884.

THE WEST AMERICAN SCIENTIST.
Monthly, $1.00 per year. Exchanges invited.
Single copy, 10 cents.
Charles Russell Orcutt, Editor and Publisher.
San Diego, California.

MEXICAN FUNGI.

AGARICUS FLABELLATUS B & C.
Orcutt 4644: Alzada, Col, 4 N 1910.
AURICULARIA AURICULA (L) Underw.
Orcutt 4897: Sanborn, VC.
AURICULARIA MESSENTERICA
Orcutt 4895: Rio Verde, Oax.
COLTRICIA PERENNIS Murrill.
Orcutt 4730: Cima, Mex.
CORIOLOPSIS RIGIDA
Orcutt 4899: Sanborn, VC, Mr 1910.
FOMES SAGRAEANUS (Mont) Murrill.
Orcutt 4732: Tehuantepec, Oax.
GEASTER HYGROMETRICUS Fr.
Orcutt 4731: Tehuantepec, Oax.
GLOEOPHYLLUM STRIATUM (Sw) Murrill.
Orcutt 4225: Rio Balsas, Gro, 26 Ag 1910.
LENTINUS CRINATUS (L) Fr.
Orcutt 4213 et 4214: Rio Balsas, Gro, 26 Ag 1910.
LENTINUS VELUTINUS
Orcutt 4896: Sanborn, VC, Mr 1910.
LYCOGALA EPIDENDRUM
Orcutt 4734: Tehuantepec, Oax.
POGONOMYCES HYDNOIDES
Orcutt 4898: Sanborn, Vc, Mr 1910.
PYCNOPORUS SANGUINEUS (L) Murrill.
Orcutt 2967: Sanborn, VC, Mr 1910.
Orcutt 4226: Rio Balsas, Gro, 26 Ag 1910.
PYROPOLYPORUS YUCATANENSIS Murrill.
Orcutt 4733. Tehuantepec, Oax.
REXAGONA TENUIS Hk.
Orcutt 4641: Aizada, Col, 4 N 1910.
SCHIZOPHYLLUM ALNEUM (Sw) Schroet.
Orcutt 4227: Rio Balsas, Gro, 26 Ag 1910.
STEREUM PAPYRINUM
Orcutt 4894: Sanborn, VC, Mr 1910.
TRAVETES HYDROIDES Fr.
Orcutt 4642: Alzada, Col, 4 N 1910.

———o———

BIOGRAPHICAL.

PRINGLE, CYRUS GUERNSEY:

The name of C. G. Pringle is little known outside of certain scientific circles, yet it is inseparably connected with American agriculture, and with the flora of Mexico. As the originator of the Snowflake potato, and of other improved varietes, of cereals and useful farm plants, his memory as a benefactor of his race will remain. From him Luther Burbank gained his first skill as an originator of new varieties of plants.

In 1882 the writer first met the man, and the friendship continued. For near thirty years C. G. Pringle traversed the unexplored regions of Mexico, collecting the native flora. He was adverse toundue publicity and wrote little, but added much to our knowledge of American botany. As a man he was above reproach, a true and tried friend to every one he met—whether a peon or a professor.

He was connected with Harvard University, and with the University of Vermont for many years, up to his death from pneumonia, May 26, 1911, aged 73 years. The Pringle herbarium, in the

University of Vermont, is his choice of a monument.

DUDLEY, WILLIAM RUSSELL:

The emeritus professor of systematic botany at Leland Stanford Junior University, died June 4, 1911, aged 62 years. He was a frequent contributor to American botany, and his services to the science are commemorated in the genus Dudleya, of which many species occur on the Pacific coast.

———o———

EDITORIAL.

With the passing of old friends and correspondents ambition wanes. Who is left to care for what the editor may write? Yet not a few are yet left with a taste for the study of nature, and perchanse there are others unknown who may be interested in the old themes.

The year 1910 was spent in the southern Mexican states, on botany intent, by the editor, and the year's work has furnished material that may add many pages to the book of nature.

More than 3000 species of plants were collected or observed, the phanerogams being mostly determined by Jesse More Greenman, the Euphorbiaceae by Charles Frederick Millspaugh, the orchids by Oakes Ames, the grasses by A. S. Hitchcock, the ferns by W. M. Maxon, the lichens by H. E. Hasse, the fungi in part by W. G. Farlow, in part by W. A. Murrill.

Outside of botany but little was accomplished, a small collection of land and other shells named by W. H. Dall, being all worthy of note. The present volume bid fair to be mainly Mexicana, as a consequence of the past year's rambling.

———o———

BOOKS.

GILLETTE, King C.: World corporation. 1910. 240 pp. $1.

From the author, 6 Beacon St., Boston, Mass. An ideal scheme for combining all industries under co-operative action.

MAXIM, HUDSON:

The Science of Poetry and the Philosophy of Language. 294 pp. Illustrated. $2.50 net.

The author, a celebrated scientist, and an inventor of international renown, says in his introduction, which we cannot do better than to repeat, "that the main object of this book is to provide a practical method for literary criticism and analysis, and a standard of uniform judgment for determining the relative merits of literary productions, and further, to supply a more practical and efficient means than we have had heretofore for the standardization of poetry, whereby any poem may be assayed, and the amount of its poetic gold determined and separated from the slag and dross." The author's definition of poetry is that it is the "expression of insensuous thought in sensuous terms by artistic

trope." The work will be welcomed by every true poet so favored as to have acces to it, but is likely to receive scant courtesy from the rest of a world engrossed in money-making.

BOOKS ON CACTI.

ENGELMANN, GEORGE: Cactaceae of the Mexican boundary survey, many fine plates, $10.

LABOURET, J.: Monographie des Cactees. 1847 (fide Lemaire).

A very rare work, $10.

ORCUTT, CHARLES RUSSELL: Review of the Cactaceae. Unbound parts, all published, $5.

BOOKS ON MEXICO.

Codigo de Comercio, 1889. $1.

WILSON, Robert A.: Mexico: its peasants and its priests. 1856. 418 p. Ill. $6.

MELISH, John: A geographical description of the United States with the contiguous countries, including Mexico and the West Indies. NY. 1826. 497 pp. Maps. One cover missing. $4.

Calendaria de Galvan. 18, 42, 1843, 1845. Each $1.

Boletin de agricultura, mineria, e industrias. Each 50 cents.

STEPHENS, John L.: Incidents of travel in Central America, Chiapas, and Yucatan. NY. 1841. 2 vols. Ill. $6.

——Incidents of travel in Yucatan. 1843. 2 vols. $6.

NORMAN, B. M.: Rambles in Yucatan. 1843, 304 pp. Ill. Ed 2, $5.

SQUIER, E. G.: Nicaragua; its people, scenery, monuments, and the proposed interoceanic canal. NY. 1852. Ed I. num maps and ill. $8.

WARD, H .G.: Mexico. London, 1829. Ed 2. 2d vol only. $4.

BUSTO, Emiliano: Impuestos Federales de la Republica Mexicana. 1880. Cxx. 995 pp. With author's autograph, $9.

MASSEY, Gilbert company: Blue book of Mexico. 1901. 272 pp. $1.

———o———

CAN PLANTS SEE?

"I have received from you five excellent plants—all in first-class condition, and if they do not survive it will not be your fault. You scientists seem agreed that plants can see. I wonder what these new ones think as they look out on the snow-covered ground and a raging blizzard."—Thomas J. Crowe.

———o———

AMERICAN PLANTS.

This work, published at $4 per volume, by Charles Russell Orcutt, San Diego, California, contains in brief the following:

Abbreviations 372, 411.
Algae (Californian), 392.
Alphabetical index—chiefly of Californiian plants, 445.
Among the wild flowers of San Diego, by James S. Lippincott, 401.
Analytical key to families represented

in California, 385.
Cacti, cultivation of, 782.
Coniferous trees and shrubbery of San Diego county, 404.
Glossary, 375.
Grasses, 411.
Lichens, 240, 367, 400.
Plant identification, 375.

Volume I contains descriptions of over 200 genera, and of more than 1200 species, chiefly natives of Southern California.

Volume 2 is largely devoted to an enumeration of the Californian flora, with synonymy and bibilographical references.

The plan is to reprint the earliest published description of every genus, species and variety of plant credited to the North American continent, and such excerpts from later works as supplement the original records.

Authority as a rule is to be cited for every name that has been referred to the synonymy of any other species.

———o———

FOR SALE OR EXCHANGE.

We are preparing lists as follows, which will be sent free on request as issued.

I.—BOOKS, new and old.
II.SHELLS, Marine, Land and Fresh Water.
III.—SEEDS.
IV.—CACTI and succulents.
V.—REAL ESTATE.

C. R. Orcutt, San Diego, California.

———o———

MEXICAN GRASSES.

Collected in Mexico by C. R. Orcutt during 1910, and determined by Dr. A. S. Hitchcock, of the United States Department of Agriculture.

AEGOPOGON GEMINIFLORUS HBK.
Orcutt 3925; Pachuca, Hgo, 5 S 1910.
Orcutt 4248; Xochimilco, DF. 3 O 1910.
AGROSTIS XIEMALIS subsp.
Orcutt 3744 et 4441; Tres Marias, Mex, 23 Ag 1910.
Orcutt 3953; Teziutlan, Pue. 6 S 1910.
AGROSTIS TOLUCENSIS HBK.
Orcutt 3789; Cima, Mex, 24 Ag 1910.
ANDROPOGON BARBINODIS Lag.
Orcutt 3687; S Angel, DF, 18 Ag 1910.
ANDROPOGON BREVIFOLIUS Sw.
Orcutt 4681; Alzada, Col, 4 N 1910.
ANDROPOGON INCOMPLETUS Presl.
Orcutt 4707; Tuxpan canyon, Col, 3 N 1910.
ANDROPOGON
Orcutt 4632; Alzada, Col, 4 N 1910.
ANTHOPHORA HERMAPHRODITA (L) Kuntze.
Orcutt 4567; Colima, Col, 24 O 1910, 4709; Tuxpan canyon, Col, 3 N 1910.
ARISTIDA BROMOIDES HBK.
Orcutt 4130; Telles, Hgo, 21 S 1910.
ARISTIDA HUMBOLDTIANA Trin & Rupr.
Orcutt 3676; Olivar, DF, 17 Ag 1910.
ARISTIDA MANZANILLOANA Vasey.
Orcutt 4569: Colima, Col, 24 O 1910.

ARISTIDA SCABRA Kunth.
Orcutt 4463: Manzanillo, Col, 20 O 1910.
Orcutt 4633: Alzada, Col, 4 N 1910.
ARISTIDA TRINII Scribn.
Orcutt 3732: Ajusco, DF, 20 Ag 1910.
Orcutt 3863: Alarcon, Mor, 31 Ag 1910.
ARUNDINELLA DEPPEANA Nees.
Orcutt 3062: Sanborn, VC, 4 Mr 1910.
BLEPHARONEURON TRICHOLEPIS (T) Nash.
Orcutt 3796: Cima, Mex, 24 Ag 1910.
BRACHIARIA MEZIANA Hitchc.
Orcutt 3692: S Angel, DF, 18 Ag 1910.
BRACHIARIA PLANTAGINEA (Link) Hitchc.
Orcutt 3890: Cuernavaca, Mor, 31 Ag 1910.
Orcutt 4616: Colima, Col, 24 O 1910.
BRACHYPODIUM MEXICANUM Link.
Orcutt 3738: Tres Marias, Mex, 23 Ag 1910.
Orcutt 4005: Teziutlan, Pue, 7 S 1910.
BROMUS LACINIATUS Beal.
Orcutt 3722: Ajusco, DF, 19 Ag 1910.
BROMUS PROXIMUS Shear.
Orcutt 4037: Teziutlan, Pue, 7 S 1910.
BULBILIS DACTYLOIDES (Nutt) Rafin.
Orcutt 4148: Telles, Hgo, 21 S 1910.
BOUTELOUA BROMOIDES (HBK) Lag.
Orcutt 3675: Olivar, DF, 17 Ag 1910.
Orcutt 3885: Cuernavaca, Mor, 31 Ag 1910.
BOUTELOUA CURTIPENDULA (Michx) T.
Orcutt 3666: Olivar, DF, 17 Ag 1910.
3690: S Angel, DF, 18 Ag 1910.
BOUTELOUA FILIFORMIS Fourn.
Orcutt 3255: Coatbacoalcos, VC, 21 Mr 1910.
Orcutt 4568: Colima, Col, 24 O 1910.
BOUTELOUA OLIGOSTACHYA (Nutt) T.
Orcutt 3641: Tlalpam, DF, 16 Ag 1910.
BOUTELOUA PROSTRATA Lag.
Orcutt 3608: Olivar, DF, 15 Ag 1910.
Orcutt 3903: Pachuca, Hgo, 5 S 1910.
Orcutt 4153: Telles, Hgo, 21 S 1910.
BOUTELOUA REPENS HBK.
Orcutt 4459: Manzanillo, Col, 20 O 1910.
BOUTELOUA SCORPIOIDES Lag.
Orcutt 4107: Mexico, DF, 20 S 1910.
CATHESTECHUM STOLONIFERUM
Orcutt 4166: Rio Balsas, Gro, 26 Ag 1910.
CENCHRUS CAROLINIANUS Walt.
Orcutt 4446: Tecoman, Jal, 20 O 1910.
CENCHRUS VIRIDIS Spreng.
Orcutt 3074: Sanborn, VC, 10 Mr 1910.
CHAETOCHLOA GRISEBACHII S & M.
Orcutt 4342: Xochimilco, DF, 6 O 1910.
Orcutt 4481: Manzanillo, Col, 20 O 1910.
Orcutt 4428: Las Amates, Mor, 25 Ag 1910.
Var: **AMPLA** S & M.
Orcutt 3697: S Angel, DF, 18 Ag 1910.
CHAETOCHLOA IMBERBIS (Poir) Scribn.
Orcutt 3861: El Parque, Mor, 31 Ag 1910.
Orcutt 3534 et 3535 Contreras, DF, 9 Ag 1910.
Orcutt 3237: Sanborn, VC, 24 F 1910.
Orcutt 3613: Olivar, DF, 15 Ag 1910.
Orcutt 4624: Alzada, Col, 4 N 1910.
CHAETOCHLOA SETOSA (Sw) Scribn.
Orcutt 4194: Rio Balsas, Gro, 26 Ag 1910.

BRITISH MUSEUM NATURAL HISTORY
28 APR 1937

7 OCT 1911

The West American Scientist.

VOLUME XVIII. WHOLE NO. 135.
SEPTEMBER, 1911.

Established 1884.

THE WEST AMERICAN SCIENTIST.
Monthly, $1.00 per year. Exchanges invited.
Single copy, 10 cents.
Charles Russell Orcutt, Editor and Publisher.
San Diego, California.

CALIFORNIA TREE AND SHRUB SEEDS.

Prices quoted are per pound, where not otherwise specified.

ABIES HOOKERIANA, $8.
ARCTOSTAPHYLOS GLAUCA, $1.
ARCTOSTAPHYLOS MANZANITA, $4.
ARCTOSTAPHYLOS TOMENTOSA, $2.
CEANOTHUS INTEGERRIMUS, $1.
CHAMAECYPARIS LAWSONIANA, $3.
CUPRESSUS ARIZONICA, $4.
CUPRESSUS COVENIANA, $3.
CUPRESSUS GUADALUPENSIS, $4.
CUPRESSUS MAC NABIANA, $3.
CUPRESSUS MACROCARPA, $1.
ERYTHEA ARMATA, $2.
ERYTHEA EDULIS, $2.
FREMONTIA CALIFORNICA, $16.
HETEROMELES ARBUTIFOLIA, $1.
JUNIPERUS CALIFORNICA, $3.
JUNIPERUS OCCIDENTALIS, $2.
LARIX OCCIDENTALIS, $20.
LIBOCEDRUS DECURRENS, $3.
PICEA AMABILIS, $3.
PICEA BREWERIANA, $20.
PICEA BRACTEATA, $10.
PICEA CONCOLOR, $2.
PICEA ENGELMANNII, $5.
PICEA GRANDIS, $3.
PICEA MAGNIFICA, $4.
PICEA NOBILIS, $4.
PICEA PUNGENS, $4.
PICEA SITCHENSIS, $4.
PICEA SUBALPINA, $5.
PINUS COULTERI $3.
PINUS CONTORTA, $5.
PINUS EDULIS, $2.
PINUS FLEXILIS, $3.
PINUS INSIGNIS, $2.
PINUS JEFFREYI, $3.
PINUS LAMBERTIANA, $2.
PINUS MONOPHYLLA, $2.
PINUS MONTICOLA, $5.
PINUS MURICATA, $5.
PINUS MURRAYANA, $8.
PINUS PARRYANA, $5.
PINUS PONDEROSA, $2.
PINUS SABINIANA, $2.
PINUS TORREYANA, $3.
PINUS TUBERCULATA, $4.
PRUNUS ILICIFOLIA, $2.
PSEUDOTSUGA DOUGLASSII, $3.
PSEUDOTSUGA MACROCARPA, $4.
RHUS INTEGRIFOLIA, $4.
RHUS OVATA, $4.
SCHINUS MOLLE, $1.
SEQUOIA GIGANTEA, $8.
SEQUOIA SEMPERVIRENS, $3.
THUYA GIGANTEA, $4.
TORREYA CALIFORNICA, $2.
TSUGA HETEROPHYLLA, $8.
TSUGA MERTENSIANA, $8.
WASHINGTONIA FILIFERA, $1.
WASHINGTONIA ROBUSTA, $2.
WASHINGTONIA SONORAE, $3.

TERMS CASH. Special prices on large quantities.

SEEDS, BULBS, and PLANTS of all kinds collected to order.
C. R. Orcutt, San Diego, California.

BOOKS ON MEXICO.

Codigo de Comercio, 1889. $1.
WILSON, Robert A.: Mexico: its peasants and its priests. 1856. 418 p. Ill. $6.
MELISH, John: A geographical description of the United States with the contiguous countries, including Mexico and the West Indies. NY. 1826. 497 pp. Maps. One cover missing. $4.
Calendaria de Galvan. 18, 42, 1843, 1845. Each $1.
Boletin de agricultura, mineria, e industrias. Each 50 cents.
STEPHENS, John L.: Incidents of travel in Central America, Chiapas, and Yucatan. NY. 1841. 2 vols. Ill. $6.
——Incidents of travel in Yucatan. 1843. 2 vols. $6.
NORMAN, B. M.: Rambles in Yucatan. 1843, 304 pp. Ill. Ed 2, $5.
SQUIER, E. G.: Nicaragua; its people, scenery, monuments, and the proposed interoceanic canal. NY. 1852. Ed I. num maps and ill. $8.
WARD, H .G.: Mexico. London, 1829. Ed 2. 2d vol only. $4.
BUSTO, Emiliano: Impuestos Federales de la Republica Mexicana. 1880. Cxx. 995 pp. With author's autograph, $9.

BRITISH MUSEUM NATURAL HISTORY