

AGRICULTURAL PAPERS.

A SERIES PREPARED ESPECIALLY FOR THE "RECORD-UNION" Presenting Instruction Contained in Lectures from the Chair of Agriculture, State University.

[TWELFTH PAPER.] Although the welfare, size and appearance of a plant depend in a great measure upon its stem, yet the functions of it most important member are generally subordinated to those of the organs which it bears—flowers and leaves. All plants of the higher orders are supplied with an stem, but in some plants it does not appear above the ground, and hence is often taken for a part of the root.

Increases, side branches start from the buds in the axils of the leaves, which continue to grow, and in due course of time develop their own lateral branches from axial buds. The whole framework of the foliage is made up by this branching from the main stem. Nodes may be distinguished on the stems of most of all young branching plants, but they are not nearly so perfectly developed in the culms.

These nodes mark the point at which the leaf was attached to the stem, and are, as a general thing, not noticeable for a great length of time after the leaves have fallen off.

The symmetry of the tree is maintained on the development of the buds of the stem. Oftentimes many of these remain latent or dormant, and make no growth until they are specially aroused and stimulated by the action of the soil.

By a decrease in the amount of foliage of the plant. When the growing buds and branches of a plant are pruned off, the latent buds will push forth with increased amount of sap. One can thus, by pinching back or pruning the most thrifty branches, induce the growth of the weaker parts of the tree or plant, and in reality control the development of the foliage of the tree.

Adventitious buds are those which give rise to the shoots from the stem or from a tree which has been wounded or mechanically injured during the growing season. The shoots and branches which spring from the nodes of stems originate in adventitious buds. Unlike that of the root, the growth of the stem takes place throughout almost its entire length. This characteristic of the growth of stems also holds good for subterranean and prostrate stems.

RUNNERS ARE STEMS Which branch out from main stems just above the ground, and grow in horizontal layers. These runners, when in contact with the soil, take root and form independent plants. One runner often has numerous sets of roots growing from its nodes, and the roots are attached to the stem between each node, forming a corresponding number of plants. The runners of strawberries and the propagation of vines by layering are common examples of the growth and development of runners.

Subterranean stems are, from their position, very commonly taken for roots. Such stems may be three classes: (1) Root-stocks, suckers and tubers. Root-stocks are horizontally-elongated subterranean stems, which emit roots along the entire length of the under surface, and in axial stems, they grow by the development of a terminal bud. As the growth of younger portions proceeds the older ones generally wither and decay.

As the growth of younger portions proceeds the older ones generally wither and decay. In many instances the stages of growth are marked by a series of nodes, which are separated by a enlargement caused by the beginning of the succeeding year's development. Runners, each of which bears one of these nodes or divisions with its roots will, if severed from the parent stock, form an independent plant. Suckers are shoots which arise from the nodes of stems just above the ground, and then come forth and continue their growth in the open air. Rose-bushes, poplars, cherry and other trees are objectionable on account of the numerous suckers sent out by them.

TUBERS Are formed by the fleshy enlargement of the extremities of subterranean stems. The buds are in a dormant state, and are represented by the eyes. If examined closely these eyes will show traces of rudimentary leaves. Tubers are, for the most part, filled with starch, and which was meant to supply a supply of food for the use of the growing plant. The tubers of the potato, a tuber—a potato, for instance—is capable of forming an individual plant, and hence the propagation of tubers plants is generally accomplished by dividing the tuber into numerous parts, each of which contains one or more eyes. Buds differ from tubers in being the enlarged and thickened extremities of stems. Tubers are the thickened extremities of subterranean and generally secondary branches. Buds are generally enlarged, fleshy and permanent, and are located in the leaf axils of a stem. A good example of vegetable buds may be seen in the onion, and its identity with a bud is forcibly illustrated by the fact that sprouts of onions, which are often brought forth on the extremity of the stem. Regarded as a bud, and as the point from which the plant originates, the stem is composed of a series of nodes from the apex of the bud, while roots proceed from its lower surface.

STRUCTURE OF THE STEM. The young and rudimentary stem, and those of some of the lowest orders of plant, consist essentially and solely of cellular tissue—a simple aggregation of rounded and cohesing cells which rapidly multiply during vigorous plant growth. In the higher orders of plants this cellular tissue, as the plants grow older, is gradually penetrated by bundles of vascular tissue—elongated tube-like fibers which are formed by the union of the transverse sections or ends of the cohesing cells, and by the growth of wood cells, greatly elongated and thick-walled cells. The fiber of the stem is composed of a series of elongated fibers of wood, vascular and other tissues, and is always found running lengthwise with the stem. It is this fibrous tissue which is found in all herbaceous stems, and which constitutes in great part the trunks of most shrubs and trees, imparting the strength and solidity to the stem.

ALL FLOWERING PLANTS May, from the structure of their stems, be divided into two classes, endogenous (in which the stems are formed in the inner parts of the stem). A common example of such stem structure and growth is found in maize stalks and in bamboo. The stems of endogenous plants cannot be separated by mechanical means into several layers or parts. There is no well-defined bark, but instead a layer of flattened, more or less impervious and thickened cells, which forms a sort of protecting shell to the softer fibers within. The stem increases in density and hardness from the center toward the outside. This is owing

MECHANIC'S STORE.

For Advertisement of WEIN-STOCK & LUBIN, see Eighth Page. It will be changed daily.

MISCELLANEOUS. THE FINEST DRINK IN THE WORLD. TRY A NAPA SODA. NAPA SODA LEMONADE. m16-1p1m

Palmer & Sepveda (Successors to J. S. TROWBRIDGE) DRUGGISTS AND APOTHECARIES, Northeast Corner Second and K Streets, Sacramento.

REAL ESTATE SALESROOM AND INSURANCE OFFICE W. P. COLEMAN No. 325 J Street, Sacramento, Cal.

FOR SALE OR TO LET ALL KINDS OF PROPERTY—HOUSES SOLD ON INSTALLMENT PLAN. MONEY LOANED ON REAL ESTATE. m17-1p1m

LATEST STYLES MADE TO ORDER. FINE FRENCH COLORED SHIRTS. SEND FOR SAMPLES TO SACRAMENTO SHIRT FACTORY, 523 J STREET.

THE BUCKEYE Mower and Reaper. THE CHAMPION Mower and Reaper. TIGER SELF-DUMPING SULKY Rakes! GALE SULKY RAKES.

NEW HOLLINGSWORTH SULKY RAKES! REVOLVING RAKES! BAKER & HAMILTON, AGENTS FOR ALL THE LATEST IMPROVED FARMING IMPLEMENTS AND MACHINES.

MOWERS AND REAPERS, RAKES; J. I. CASE & CO.'S GENUINE CALIFORNIA HEADERS; THE GENUINE BUFFALO PITTS THRESHERS; BAIN HEADER AND FARM WAGONS; Ames' Straw-Burning Engines!

RUBBER AND LEATHER BELTING, FORKS, RAKES; FENCE AND BALING WIRE, BARBED WIRE, SHELF HARDWARE, CUTLERY, WHITE CLOTH, BOLT, SCREWS, AXES, SHOVELS, ETC.

Parties Going to the Old Countries Can procure tickets at the VERY LOWEST RATE for which they are anywhere obtainable. For terms and particulars apply to J. I. Case & Co., 1011 Broadway, New York, N. Y.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of hemp, 8. 1000 bushels of flax seed, 9. 1000 bushels of hemp seed, 10. 1000 bushels of flax straw, 11. 1000 bushels of hemp straw, 12. 1000 bushels of flax chaff, 13. 1000 bushels of hemp chaff, 14. 1000 bushels of flax refuse, 15. 1000 bushels of hemp refuse.

SALES DATES: April 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31. At 10 o'clock A. M.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

MECHANIC'S STORE.

For Advertisement of WEIN-STOCK & LUBIN, see Eighth Page. It will be changed daily.

MISCELLANEOUS. THE FINEST DRINK IN THE WORLD. TRY A NAPA SODA. NAPA SODA LEMONADE. m16-1p1m

Palmer & Sepveda (Successors to J. S. TROWBRIDGE) DRUGGISTS AND APOTHECARIES, Northeast Corner Second and K Streets, Sacramento.

REAL ESTATE SALESROOM AND INSURANCE OFFICE W. P. COLEMAN No. 325 J Street, Sacramento, Cal.

FOR SALE OR TO LET ALL KINDS OF PROPERTY—HOUSES SOLD ON INSTALLMENT PLAN. MONEY LOANED ON REAL ESTATE. m17-1p1m

LATEST STYLES MADE TO ORDER. FINE FRENCH COLORED SHIRTS. SEND FOR SAMPLES TO SACRAMENTO SHIRT FACTORY, 523 J STREET.

THE BUCKEYE Mower and Reaper. THE CHAMPION Mower and Reaper. TIGER SELF-DUMPING SULKY Rakes! GALE SULKY RAKES.

NEW HOLLINGSWORTH SULKY RAKES! REVOLVING RAKES! BAKER & HAMILTON, AGENTS FOR ALL THE LATEST IMPROVED FARMING IMPLEMENTS AND MACHINES.

MOWERS AND REAPERS, RAKES; J. I. CASE & CO.'S GENUINE CALIFORNIA HEADERS; THE GENUINE BUFFALO PITTS THRESHERS; BAIN HEADER AND FARM WAGONS; Ames' Straw-Burning Engines!

RUBBER AND LEATHER BELTING, FORKS, RAKES; FENCE AND BALING WIRE, BARBED WIRE, SHELF HARDWARE, CUTLERY, WHITE CLOTH, BOLT, SCREWS, AXES, SHOVELS, ETC.

Parties Going to the Old Countries Can procure tickets at the VERY LOWEST RATE for which they are anywhere obtainable. For terms and particulars apply to J. I. Case & Co., 1011 Broadway, New York, N. Y.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.

THE OREGON RAILWAY AND NAVAL STORES COMPANY will sell at public auction on the 10th day of April, 1882, at 10 o'clock A. M., all the contents of the storehouse at Astoria, Oregon, consisting of: 1. 1000 bushels of wheat, 2. 1000 bushels of barley, 3. 1000 bushels of oats, 4. 1000 bushels of rye, 5. 1000 bushels of corn, 6. 1000 bushels of flax, 7. 1000 bushels of flax seed, 8. 1000 bushels of hemp seed, 9. 1000 bushels of flax straw, 10. 1000 bushels of hemp straw, 11. 1000 bushels of flax chaff, 12. 1000 bushels of hemp chaff, 13. 1000 bushels of flax refuse, 14. 1000 bushels of hemp refuse.