Steel and Wood Filing Cabinets and Transfer Cases

The famous Macey line

The Sentinel



LOOSE LEAF FORMS and BINDERS

THE SENTINEL



Some of the Things You'll Find at the Home Print Shop

Account Files
Adding Machine Paper
Advertising Blotters
Announcements
Auction Bills
Badges, Ribbons
Bank Forms
Banquet Folders
Bereavement Cards
Bill and Charge Statements
Bill Heads
Bills of Fare
Birth announcements
Blank Books
Blotters
Books and Booklets
Box Files
Business Announcements
Business Cards
Business Stationery
Cabinets, Filing
Calendars
Calling Cards
Carbon Paper
Catalogs
Christmas Cards
Check Protectors
Circulars
Checks and Drafts
Clip Boards
Columnar Forms
Commercial Stationery
Concert Programs
Correspondence Stationery
Coupon Books
Dance Programs
Dance Tickets
Deposit Slips
Desk Pens
Desks
Directories
Dodgers
Draft Notices
Duplicate Blanks
Duplicating Supplies
Envelopes
Files of Every Kind
Filing Cards
Folders, Letter and Cap
Gummed Labels
Hand Bills
Hotel Note Heads
Income Tax Records
Index Cards
Inks, Pens, Pencils
Invitations
Invoices
Invoice Files
Leather Tabs
Ledger Leaves
Legal Blanks
Letter Heads
Letter Files
Library Paste
Linen Tags
Loose Leaf Devices
Loose Leaf Note Books
Loose Leaf Recipe Books
Manuscript Covers
Meal Tickets
Memo Books
Menus
Mimeograph Supplies
Monthly Account Sheets
Notes, Promissory
Notices, Collection
Office Equipment
Order Blanks
Pamphlets
Paper Clips
Paste
Pins
Placards
Prescription Blanks
Price Books
Punching Machines
Recital Programs
Receipts
Reception Cards
Remittance Cards
Rubber Bands
Rubber Stamps
Ruled Stationery
Scales
Postage
Show Cards
Stamp Pads
Stapling Machines
Salesbooks
Statements
Stencils
Second Sheets
Store Counter Pads
Store Sale Bills
Tag Envelopes
Thumb Tacks
Tickets
Typewriters
Typewriter Supplies
Ungummed Labels
Upright Files
Warrants
Waste Paper Baskets
Wedding Invitations
Window Cards
Wrapping Cord


### Sloe Used in Tea

Sloe, a wild plum sometimes called the blackthorn, is the source of a leaf sometimes used to adulterate tea. The bush, which grows in height from four to ten feet, is covered with sharp points or spikes. In the spring time, the bush is first covered with white flowers which appear before the leaves come out. These leaves, shaped somewhat like tea leaves, are used to make a type of tea peculiar to the sloe, and in addition, find their way into adulterated tea. The fruit of the tree or bush is of little use, being small and very bitter.

### Squirrels Build Leaf Nests

Gray squirrels seldom live in hollow trees. Indeed in summer they forsake such hot and stuffy quarters altogether and live in clean, cool leaf nests high in the forks of hardwood trees. These nests are two feet or more in diameter, made of green leaves and twigs cleverly laced and matted together. Within is a cozy living room and a soft, clean bed, usually of dry grass.

### Emancipation Day

The date of the proclamation setting free the slaves in the Territories of the United States was June 19, 1862, while the general emancipation proclamation which freed the slaves in all southern states was dated January 1, 1863. Because of the fact that June is a better time to celebrate than January, the former date is usually observed.

### "D" Mint Mark

If a coin is dated prior to 1861, the "D" mint mark means Dahlonega, a mint established in 1838, and seized by the Confederates at the time of the Civil war. Otherwise, it stands for Denver, where a mint was established in 1906, and has been operated continuously since that time.

### "Cold Light"

"Cold light" is bioluminescence, which means that only very little heat appears as compared with ordinary methods of illumination. The light is no different, physically, from any other kind of light, but there are no infra-red or ultra-violet radiations produced.

### Rocks Can Be Molded

Hard rocks can be pushed into new shapes. Marble columns, encased in tight brass cylinders and subjected to an intense pressure over a long period, have been distorted into short, thick shapes—without a single crack.—Collier's Weekly.

### Sure Do Use Their Heads

In Paramaribo, Dutch Guiana, native women carry everything—from milk bottles to coffins—on their heads. Their aversion to using their hands is so strong that they even carry letters in this manner weighted down by a brick.

### Troposphere and Stratosphere

The troposphere is the shell of air about the world, extending to a height of from six to ten miles, in which clouds are found. The upper shell, of unknown thickness, in which there are no clouds, is called the stratosphere.

### Odd House Numbering

The houses in Dublin, Ireland, are numbered consecutively, starting at one end of one side of a street, continuing to the farther end and returning on the other side, so that No. 1 in a street may be opposite No. 435.

### Ohio Named for Its River

Ohio takes its name from the river which borders it on the south and southeast. The name of the river is a contraction from the Iroquois Ohionhilo, meaning "beautiful river."

### Hell Gate Bridge

Hell Gate bridge extends across the East river at Hell Gate, N. Y., and connects Long Island with the mainland. It is 18,000 feet long. It was opened March 1, 1917.

### Termites Native of U. S.

The species of termites that cause extensive damage to wooden structures in the United States are pronounced native species, not strange foreign pests.

### Growth of Ostrich

When a young ostrich is hatched it is the size of the average hen. By the time it is six months old it will be nearly full grown.

### Oldest Fossils

Some of the oldest fossils yet obtained, of the Paleozoic era, have been found in a reef in western Newfoundland.

### Strong Spider Webs

An enormous Madagascar spider spins webs so strong that birds are caught and held fast in them.

### First U. S. Postoffice

The first United States government post office was opened at New York city November 28, 1783.

### Reign of Emperor Kublai Kahn

Reign of the Mongol emperor, Kublai Kahn, began at Pekin, China, in 1259 A. D.

### An Old Cathedral

St. Giles Cathedral of Edinburgh dates from 1387

### Alaska's Forest Moving

The forest of Alaska is marching northward, Prof. Robert E. Griggs of George Washington university, reported. "Instead of being held in check by climatic factors," he said, "the forest is rapidly migrating into new territory."

### Velocity of Projectile

The United States bureau of standards says that the velocity of a projectile fired vertically is the same ascending and descending.

### America Attracts Intelligent

America, from the days of the Pilgrim Fathers till now, has attracted the most intelligent and active of Europe.

# Old Orchards Can Be Made Produce

## Fall Fertilization Needed; Followed by Plowing and Pruning.

By W. M. Cass, Extension Horticulturist, Colorado Agricultural College. WNU Service.

There are many old and neglected orchards that could be brought into profitable production with little cost and labor.

When an orchard has been neglected for a number of years, the trees become overgrown with wood, due to lack of pruning. Cultivation has also been neglected and the spaces between the trees are covered with pasture grasses and weeds; the soil is hard and fertility is lacking.

The first thing to be done is to plow the orchard in the fall as deeply as possible. Tree roots in neglected orchards are usually close to the surface, and hence care should be taken in plowing the first time not to tear up too many roots. The depth can be increased with each successive plowing, as the roots will go down when given a chance. Before plowing the land should be given a good coat of barnyard manure.

Next in importance is the pruning. This should be done between February 15 and April 15. When trees have been neglected for some years, they are usually full of wood and need thinning. It is not advisable to do all the pruning in one year, as it tends to encourage the growth of suckers or water-sprouts. It is better to take two years in which to bring the trees into shape.

## Complex Mineral Feeds Needless Farm Expense

Farmers can economize on the feeding of complex mineral mixtures to live stock without any danger of cutting down their returns, according to a circular, "The Feeding of Mineral Supplements to Live Stock," issued by the College of Agriculture, University of Illinois. The publication is an up-to-date revision of a previous circular on the same subject by H. H. Mitchell, chief in animal nutrition.

Carefully conducted experiments have failed to show any need for complex mineral mixtures in general practice, the circular points out.

Minerals should be used in the feeding of live stock only as supplements to rations that have been properly balanced in other respects, particularly in respect to protein. Mineral supplements, therefore, need contain only a few minerals in which farm feeds are known to be deficient. These can be supplied cheaply and mixed on the farm.

All mineral mixtures should contain common salt and a calcium supplement. As a measure of safety some form of calcium phosphate may be used, particularly for dairy cows and for growing animals subsisting mainly on pastures grown on poor soils.

## Bot Control

Farmers who expect to treat their horses for bots this fall will get better results if they wait until one month after the first freezing weather lasting for a day or longer, says the United States Department of Agriculture. This recommendation is based on recent experimental work of the bureau of animal industry, showing that the larvae of the common bot spend from 21 to 28 days in the tongue of the horse before migrating to the stomach. Previous recommendations for treatment of bots have been based on the belief that as soon as the eggs—laid on the hair of a horse—hatched the larvae went directly to the stomach. With the new knowledge of the life cycle of this parasite, control measures may be more effectively used. As soon as freezing weather appears, the eggs may be destroyed by washing the animal with a 2 per cent solution of cresol. Then, after 30 days, have a competent veterinarian supervise treatment of the animal with disulphide to rid it of the parasites in its stomach.

## Where Crops Fit In

There are some crops which are not well suited to very fertile soils. Buckwheat, for example, often produces too much straw and too little grain on rich soils, especially those soils which are very high in nitrogen. Oats are likely to lodge badly on soils too rich in nitrogen. On the other hand, a fertile soil is essential for profitable yields of wheat and barley. Rye will grow well on rich soils, but it is also a particularly good crop for light fertile soils.

## Feeding Calves

A small amount of grain and hay should be offered to the calf when about two weeks of age or when skimmilk is substituted for whole milk. This should be gradually increased until the animal is receiving about three pounds of grain a day at six months of age when the calf should be weaned. The grain will then be further increased to provide necessary nutrients formerly supplied by the milk.

### Origin of Famous Oath

The oath "By the face of God," is derived from the famous Volto Santo or Holy Face at Lucca, which is carved on an early Byzantine crucifix brought to Lucca from Palestine in 782.

### Not Barred From Third Term

The President of the United States is not barred from a third term by law, but the precedent set by George Washington and Thomas Jefferson, who declined a third term, has been followed.

### Peru's Jobs Increase

The number of government employees in Peru has gained 500 per cent in the last 11 years.

### Black Hawk War

Black Hawk was a renowned Indian chief of the Sac tribe. He was a continual source of trouble between the Indians and the United States. In June, 1831, when white settlers began to occupy former Indian lands in the uper Mississippi valley, Black Hawk instigated a conflict which lasted until his defeat at the hands of the American troops. He surrendered on August 27, 1832. He was held as a hostage but released. He died on an Indian reservation near Des Moines in 1838.

### Water for Imperial Valley

Prior to 1893 when a California development company was organized for the purpose of securing and delivering water to irrigate and reclaim the Imperial valley, the region was waterless, barren and unhabited. The first water was brought into the valley with the Imperial canal (45 miles long), which curved below the international boundary into Mexico, in March, 1902.

### Force of Buoyancy

A solid immersed in a liquid is buoyed up by a force equal to the weight of the liquid displaced. The velocity with which the submerged body will rise to the surface will depend on the relation between the weight of the solid and that of the liquid. Buoyancy is simply the upward pressure exerted by the liquid.

### "Herring Across the Trail"

The origin of the expression "to drag a red herring across the trail" is from an old English proverb of unknown origin. The reference is to hunting, where the dragging of a red herring across the trail of a fox will throw the hounds off the scent and lead them on a false trail.

### Tried to Net the Sun

Up in a high pass of the Peruvian Andes stands a monument to one of man's most incredible experiments. It consist of two towers, built on opposite hills, between which, centuries ago, a primitive tribe hung a gigantic net—and tried to catch the sun.

### Temperature of Absolute Zero

The nearest approach to a temperature of absolute zero ever attained was made by Prof. W. G. Keeson at Leyden, The Netherlands, who succeeded in solidifying helium gas at 458.58 degrees below zero, F., or 82 degrees F. above absolute zero.

### Axis of Isthmus in Canal Zone

The axis of the isthmus in the Canal Zone runs southwest to northeast, and the canal is cut almost at right angles, that is, northwest to southeast. The Pacific outlet is therefore east of the Atlantic end by nearly twenty-seven miles.

### Best Fighters Never Fought

The One Hundred and Eighty-sixth O. V. I., one of the most efficient regiments that Ohio sent into the Civil war because nearly all the men had seen extensive service in other regiments, never fought a battle.

### Oldest Naval Equipment

One of the oldest pieces of naval equipment still in use, is the boatswain's pipe. Its origin is lost in the annals of time, but interested researchers have traced it back almost 700 years.

### Observatory Clock Accurate

The clock which transmits time signals of the United States Naval observatory is controlled by sound energy and varies less than one one-thousandth of a second a day.

### Iron Smelting Long Ago

Discoveries in Babylonia have disclosed the fact that iron smelting was without a doubt known at least 5,000 years ago. But it was a "lost art" for many centuries.

### Rattlesnake's Buttons

Rattlesnakes, contrary to the belief that they acquire one rattle each year, sometimes add as many as four annually, if the reptiles are well fed.

### Size of Crabs

There are crabs ranging in size from less than an inch in width to giants measuring 18 feet across their outspread legs.

### Span of Life Shorter

Despite the aid of science the average span of life of the modern woman in Great Britain has decreased 1.7 years.

### All Up to the Man

Man cannot live alone, and man, as a member of ordered society, must see that society is well ordered.

### Triple Alliance of 1795

A triple alliance was formed by Great Britain, Russia and Austria September 28, 1795.

### Dates Lead Dried Fruits

Measured by the ton, dates are the largest item in the world's dried fruit harvest.

### India Loses Many Babies

It is said that no less than 2,000,000 babies die every year in India.

### Peru's Early Conqueror

Pizarro conquered Peru in 1531-35 A. D.

### Snakes, Fish and Frogs

Snakes can endure a temperature close to freezing while numbed and motionless in hibernation, but at or below the point where water freezes they are likely to be killed. Fish and frogs may be enclosed in ice and still survive.

### Germany's Cultural Factor

The cultural factor uniting the German people today is their tradition in music rather than their history or politics.

### Where Most People Live

Nearly half of the population of continental United States lives in 95 metropolitan districts.

### THORNTON CORNERS.

Jan. 23.—Mrs. Earl Baldwin of Gowdyville visited Thursday afternoon with Mrs. Ernest Baldwin.

Mr. and Mrs. G. B. Arnest spent one day of last week at the S. W. Cellers home at Yoncalla.

Mrs. Walter Babb and Mrs. Thomason of Cottage Grove were dinner guests of Mrs. C. R. Trent Wednesday.

Mrs. Bert Lancaster and Mrs. Fred Frazee of Blue Mountain visited Thursday with Mrs. George Foster.

Mr. and Mrs. Joe Premazzi and daughter spent Sunday at the Frank LaBlue home at Hebron.

Mr. and Mrs. Fred Lammers of Cottage Grove were Sunday guests of Mr. and Mrs. Gene Boss.

Mr. and Mrs. John Willian and daughters visited Saturday evening in Cottage Grove with Mrs. John Sowles.

Mrs. Harry Patten visited one day last week with her husband, who is in the Roseburg veterans' hospital. He is improving satisfactorily.

Mr. and Mrs. Matt Maddess of Gowdyville, Mrs. E. R. Lemley, Mrs. Charles Burge, Mrs. Charles Cochran and Miss Melba Cochran of Cottage Grove were at the C. R. Trent home Thursday afternoon.

Mr. and Mrs. A. Schermacher of Cottage Grove and Mr. and Mrs. John Willian and daughters were dinner guests Sunday of Mr. and Mrs. George Foster.

Mr. and Mrs. W. A. Keene spent Sunday at the home of their son Conrad at Creswell.

Mary Trent visited Sunday with Ruth Davenport south of Cottage Grove.

Carroll Sullivan of Cottage Grove spent the week end at the Charles Boslaugh home.

Archie Brundage of Pasadena, Cal., who was formerly a resident here, was a dinner guest Monday at the John Bauder home.

Mrs. R. B. Dixon entertained 14 children Thursday afternoon in honor of the ninth birthday anniversary of her daughter Doris. Those invited were children of the neighborhood, Eva Hopman and Nedra Wallace of Cottage Grove. Refreshments were served.

Mrs. Clarence Johnson of Mount View spent Friday with Mrs. C. R. Trent.


Broken Veins

Varicose Ulcers—Old Sores Relieved at Home

No sensible person will continue to suffer when powerful penetrating, yet harmless antiseptic Moone's Emerald Oil can readily be obtained at any drug store—the directions are simple and easy to use. Economical, too, and Cottage Grove Pharmacy guarantees one bottle to give splendid results or money back. (2)



Drink Water With Meals Good for Stomach

Water with meals helps stomach juices, aids digestion. If bloated with gas add a spoonful of Adlerika. One dose cleans out poisons and washes BOTH upper and lower bowels. Kem's for Drugs. (4)


**NOTICE TO CREDITORS.**

Notice is hereby given that the undersigned has been duly appointed administrator of the estate of Frank C. Fegles, deceased, by the county court of Lane county, state of Oregon, by an order bearing date the 26th day of December, 1933.

All persons having claims against said estate are hereby required to present the same to the undersigned at the law office of Herbert W. Lombard, First National Bank building, Cottage Grove, Ore., within six months from the date of the first publication of this notice.

Date of first publication December 28, 1933.

Date of last publication, January 25, 1934.

JASPER FEGLES, Administrator of the Estate of Frank C. Fegles, Deceased.
Herbert W. Lombard, Attorney for Estate. d27-j24

**NOTICE TO CREDITORS.**

Notice is hereby given that the undersigned has been appointed by the County Court of Lane County, State of Oregon, as administrator of the estate of Frank R. Sherman, deceased, by an order bearing date the 5th day of January, 1934.

All persons having claims against the estate of said Frank R. Sherman, deceased, are hereby notified and required to present the same, duly verified, to the undersigned at the law office of Herbert W. Lombard, First National Bank building, Cottage Grove, Lane County, Oregon, on or before six months from the date of the first publication of this notice.

Dated and first published this 11th day of January, 1934.

Date of last publication February 8, 1934.

CLAUDE N. SHERMAN, Administrator of the estate of Frank R. Sherman, deceased.
Herbert W. Lombard, Attorney for Administrator. j11f8

**NOTICE OF SHERIFF'S SALE. Real Property.**

Notice is hereby given that by virtue of an execution and order of sale issued out of the Circuit court of the state of Oregon for Lane county this 20th day of December, 1933, upon and pursuant to a decree duly given and made by said court this 20th day of December, 1933, in a suit pending therein in which The Prudential Insurance Company of America, a corporation, was plaintiff and Joseph Kirkham, et. al. were defendants, which execution and order of sale was to me directed and commanded me to sell the real property hereinafter described to satisfy certain liens and charges in said decree specified, I will on Monday, the 29th day of January, 1934, at the hour of 10 o'clock A. M., at the southwest door of the county court house in Eugene, Lane county, Oregon, offer for sale and sell at public auction for cash, subject to redemption as provided by law, all of the right, title and interest of the defendants in said suit and of all parties claiming by, through or under them or any of them in or to the following described real property, to-wit:

The south 60 feet of lots 1 and 2, block 28, Gross' Addition to Eugene, Lane county, Oregon, more particularly described as follows: Beginning at the southeast corner of lot 1, block 28, Gross Addition to the city of Eugene, according to the duly recorded plat thereof, and running thence north 60 feet; thence west 111 1-3 feet to the west line of lot 2, of block 28, of Gross' Addition to the city of Eugene; thence south 60 feet; thence east 111 1-3 feet, to the place of beginning, in the city of Eugene, Lane county, Oregon, and being a part of lots 1 and 2, in said block 28.

Dated this 21st day of December, 1933.

C. A. SWARTS, Sheriff.
By A. E. HULGAARD, Deputy.
d28-j25-wf

**Subscription rate goes up February 1. The Sentinel.**

### Smith-Hughes Act of 1917

The Smith-Hughes Act of 1917 provides for federal co-operation with the states in the promotion of vocational education. The federal board of vocational education operates under this and similar subsequent acts.

**Subscription rate goes up February 1. The Sentinel.**


BUSINESS DIRECTORY

DENTISTS

DR. W. E. LEBOW
Dentist
Office Fifth and Main Streets
Hours, 8:30 to 12 and 1 to 5:30
Phone 35

DR. C. H. KIME
Dentist
Office in First National Bank Building
Phone 10 Cottage Grove, Ore.

PHYSICIANS

DR. C. E. FROST
Physician and Surgeon
First National Bank Building
Phone 17 Cottage Grove, Ore.

H. AXLEY, M. D.
Physician and Surgeon
Evenings by Appointment
Over Kem's Drug Store
Cottage Grove Oregon

R. M. RICE, M. D.
Physician & Surgeon
Over Cottage Grove Pharmacy
Phone 75 634 Main St.

ATTORNEYS

HERBERT W. LOMBARD
Attorney at Law
First National Bank Building
Phone 94 Cottage Grove, Ore.

H. J. SHINN
Attorney at Law—Notary Public
Practices in All Courts
Bader Building
Cottage Grove Oregon

ALTA KING
Lawyer
Lawson Building
Phone 90 Cottage Grove, Ore.

HERMAN E. LAFKY
Attorney at Law
Phone 5943
305 Oregon Bldg. Salem, Ore.



Gum Labels 5000 for $3.00

The Sentinel

Office Supplies of Every Kind



Scratch Pads

10c Package

THE SENTINEL



STAPLING MACHINES

THE SENTINEL



Typewriters. The Sentinel.



Rebuilt Typewriters For Sale or Rent

Cottage Grove Sentinel

SALESBOOKS!

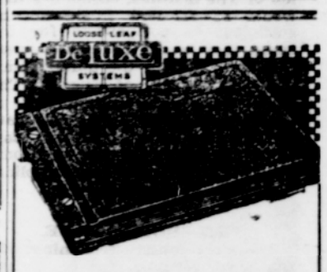
We meet all competition and furnish the best salebook on the market.

Home merchants should buy their salesbooks at home.

The Sentinel

Practically Everything in Printing. Always Try Your Home Printer First.





LOOSE LEAF LEDGER OUTFITS

$2.85 to $10.90

Loose Leaf Devices of All Kinds. Steel and Wood Office Cabinets and Equipment.

The Sentinel

Printers—Office Outfitters

BOOKKEEPING SYSTEMS

and Loose Leaf Forms for Every Purpose

A hundred or more ledger and record forms.

Simplex Bookkeeping Systems that keep track of every detail of any business.

Income Tax Record Books.

THE SENTINEL

Office Equipment of Every Kind

STEEL AND WOOD FILING CABINETS

THE SENTINEL

*Printers—Office Outfitters*