

Plants Live in Ocean
As deep into the ocean as sun light can penetrate, plants live. Like land plants, these minute plants of the ocean, the diatoms, cannot live without light. With the aid of light they, like land plants, take carbon dioxide and water and fashion them into food; carbohydrates first, the energy foods, then with the addition of nitrogen the proteins, the muscle foods.

Song Birds Slaughtered
A number of years ago there was an average of 3,000,000 song birds killed in America every year for the purpose of adorning women's hats with their plumage.

WANTADS

MISCELLANEOUS
WANT ABOUT 80 ACRES of low priced good land, clean stream, modest buildings. Will trade south ern California rented home, Mrs. J. M. Crane, General Delivery, Eugene, Oregon. m17-31p

VITUS ELECTRIC WORKS
USED ELECTRIC MOTORS. Rewinding, repairing; small motors \$3 and up; used pump ing systems and irrigation equipment; new Deline water systems \$50.50 and up. m31c 73 W. 5th Eugene, Phone 1558

FOR SALE—Milk cows or will trade for fence posts. Charles Conner, Phone 35-5-2. m24-37p

FOR SALE—20 acres south Sixth street road, Cottage Grove, at edge of city, Bargain at \$1000, Geo. W. Cooley, Paisley, Ore. aug23p

Have good used upright piano to be repossessed at once near Cottage Grove. Balance due, \$88.50; small monthly payments \$8; any one wanting this piano please write for further information to Tallman Piano Store, 895 south 12th St., Salem, Ore. m24-37p

WANTED—Improved ranch or small place in exchange for \$650 first mortgage on Cottage Grove property. House insured for \$1200. Give full description and location in first letter. Box 66, Cottage Grove, Ore. m24-36p

FOR RENT OR SALE—Modern six-room house, Garage and large chicken coop. Schofield Street. Phone 217-7 or 217-4. m24-37p

BERRIES IN PATCH—Furnish containers and pick them yourself; logans, 25c gallon; strawberries, 30c gallon. W. A. Homeway, phone 2-6-22. m14p

For Your Shave, Haircut or Shampoo

The Imperial Barber Shop

WE SPEND OUR MONEY HERE.
Have your Eugene freight and express moved by
COTTAGE GROVE-EUGENE FREIGHT & TRANSFER

DUCCO PAINTING
Brewer Mills

WOOD Block, Planer and Slab. Also Sawdust. Special Price on Winter Supply
TOM ALLEN Phone 37

FOR SALE—Stoves and furniture. We pay cash for used stoves and furniture. See us before you sell or buy.
MORRIS and McLAUGHLIN

We now have Complete Service for Gas Gauges. Liquid and Electric, exclusively.
Nelson Motor Company

Eagle Cigar Store
Billiards Cards, Fountain Candy and Cigars
Hill & King, Props.

Ice Cream and Soda Pop
Candies and Tobacco
Gasoline and Oil
Groceries
WARD'S—on North 9th Street

Bread, Cakes, Pies, Rolls, Donuts and Other Bakery Goods
City Bakery

BUSINESS DIRECTORY

DENTISTS
DR. W. E. LEBOW
Dentist
Office Fifth and Main Streets
Hours, 8:30 to 12 and 1 to 5:30
Phone 33

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 37 Cottage Grove, Ore.

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

R. M. RICE, M. D.
Physician & Surgeon
Over Cottage Grove Pharmacy
Phones: Res. 127; Office 75
634 Main Street

ATTORNEYS
HERBERT W. LOMBARD
Attorney at Law
First National Bank Building
Phone 34 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 50 Cottage Grove, Ore.

Glass Globe Filled With Water, Used as Magnifier

Some sort of magnifier must have been used from very early times, for it does not seem possible that the ancient gem cutters could have accomplished their work without some aid. Possibly it consisted of a glass globe filled with water, for Seneca wrote in A. D. 63: "Letters however small and dim, are comparatively large and distinct when seen through a glass tube filled with water."

It is probable, too, that lenses of glass were also used, though the first mention of spectacles in which convex glasses were employed is made by Bernard de Gordon about 1307.

The first microscopes were very simple in construction, consisting of short tubes of any material that would not admit the light, with a lens at one end and a glass plate at the other. On the glass plate was laid the object to be examined. Descartes invented such a simple microscope in which the rays of light were reflected on the object by means of a concave mirror.

The highest development of the simple microscope was reached in the employment of lenses of very short focus. Robert Hook, curator of the Royal society when it was first formed in 1662, made these lenses by fusing a thread of glass until it formed a tiny ball, the ball was then snapped off, stuck into wax, and the remains of the stalk ground away. The tiny balls were then fixed with wax into a pin hole made in a metal plate.

Horned Dinosaurs Roamed America in Distant Past

There were as many as 37 different species of the horned dinosaurs on the American scene about a million years ago, according to a scientist in the New York Herald Tribune, and with the exception of one species found in western Asia they have thus far been found only on this continent. The Ceratopsia lived in great numbers along the western border of a vast inland sea which extended from what is now the Gulf of Mexico into northern Alberta and Saskatchewan. They were formidable looking monsters with huge heads entirely out of proportion to the rest of their comparatively short bodies. Skulls measuring over eight feet in length have been uncovered; the average length of the complete skeletons found vary from 17 to 21 feet. The characteristic features of the large head were the great horns, borne on the nose and above the eyes, and the helmet-like crest which mantled the neck. This bony crest, extending frill-like, was in many species enhanced by horny protuberances. These dinosaurs had shearing jaws, which looked somewhat like those of a loggerhead turtle, for Ceratopsia were plant eaters.

Existence of Sharks

Geologic ages as revealed in deposit beds show that sharks have lived in all parts of the world. Yet, strange to say, almost nothing is to be discovered in evidence of sharks through past aeons except teeth. The beds of the world's oceans are paved with shark teeth, dropped there by passing tigers of the sea as their teeth sloughed off and were replaced, or being deposited as their hosts died. Since there is no real bone in a shark's body, teeth only remain undissolved by the sea and untouched by the passage of time, except they be turned to fossils by chemical action through endless centuries.

Rabbits Do Not Chew Cud

Hares and rabbits are members of the rodent family and do not chew a cud, although they move the jaws as if ruminating or re-chewing. Gud-chewing animals belong to the ruminant family. The cud chewing coney mentioned in Deuteronomy 14:7 and Leviticus 11:5 evidently was an entirely different animal from the English coney (old name for a rabbit) although there are species of hare in Palestine.—Pathfinder Magazine.

Wheat Area in South America

The principal wheat area in South America is found on the pampas of Argentina, a relatively small area in and near the tidewater region along the South Atlantic Ocean. Here, from 200,000,000 to 300,000,000 bushels a year are produced, of which more than half is exported. This is virtually all hard wheat.

Sharks Eat One Another

Watchfulness, the law of the sea, applies to sharks as well as other fish. Their span of years—never yet counted by scientists—is dependent upon their own alertness, for, although only a shark can bite a shark, these monstrous fish are cannibals, and eat one another as well as everything else in the sea.

Old Race in Skyscrapers

A young German archeologist reports having discovered vestiges of an ancient civilization on the Arabian peninsula that lived in skyscrapers and possibly to have found the descendants of the Queen of Sheba. A very ancient city found in Arabia revealed the ruins of buildings 15 stories high.

Many Shooting Stars Discovered

It has been estimated that daily from 10,000,000 to 20,000,000 of shooting stars are destroyed by our atmosphere, and taking the average as 15,000,000, it is probable that our earth, revolving upon its orbit, destroys 5,250,000,000 of them yearly. Of course, each of these consumed shooting stars leaves behind it a small amount of dust, which settles gradually to the ground. Such an amount of star dust would annually about 45,000 tons to our world's weight. However, even in a century this accumulation of dust would not amount to much.

Portable Typewriters, Sentinel.
Wedding Invitations, Sentinel.
Income Tax Records, Sentinel.

Farmers May Now Get After Weeds

Land Removed From Corn and Wheat Provides Good Opportunity.

By Bruce Thornton, Associate Botanist, Colorado Agricultural College, WNU Service.

An exceptional opportunity for farmers to control harmful weeds is offered in the removal of large acreages of land from wheat and corn under the government's plan of controlled production.

Such weeds are field bindweed or wild morning glory, white weed or perennial peppergrass, poverty weeds, Canada thistle and Russian knapweed may be controlled or eradicated by cultivating often enough to prevent any green growth from appearing above the surface of the ground. Clean cultivation is the cheapest method of eradication available at present.

This usually requires cultivating once a week for two consecutive years, although cultivations may be less frequent as the plants are weakened. One year of clean cultivation has produced desired results under some conditions, weakening weeds so that a heavy sowing of alfalfa has smothered them out completely. However, there is always a chance that some plants will survive under this method.

These weed pests defy ordinary control methods because of the huge amount of food material held in reserve in their extensive, creeping root systems. Usual cultural practices, where care is not taken to keep green growth from appearing, often increases rather than decreases the growth and spread of the weeds.

Clean cultivation has been hindered in the past by the hesitancy to take land out of production, although crops produced in weedy areas usually are of poor quality and low yield. Now that farmers are being paid rentals by the government to keep land out of corn and wheat, or the production of any crop competing with any basic commodity, an unusual opportunity presents itself for eradicating injurious weeds by clean cultivation. Weed eradication will increase the value of the land and remove a source of possible further damage.

Quail, Farmers' Friend, Must Have Food Supply

Among the chief causes for lack of quail and upland birds on farms may be scarcity of necessary food and cover. Failure to supply substitute "patches" when natural feeding ground has been destroyed and neglect to preserve the natural cover for the bob-white's habitat, are among the chief causes of gradual reduction, says the Missouri Farmer. Many measures may be taken on the average farm to increase or improve the food for quail and help bring about an increase in their numbers. Seed can be broadcast in early spring around gulleys and washes, on roadsides, around the borders of fields and like situations. Caln, hemp, lespezea, clover and many species of small wild beans and cowpeas provide excellent sustenance for quail. Once started lespezea volunteers year after year, unless killed out by burning the land over after the seed germinates in the spring. When harvesting grain a few rows on the outside near cover may be advantageously left for the birds. Quail at times do much work on the farm by destroying serious insect pests and are considered one of the farmer's best allies and deserve the serious consideration on any man's farm.

Beet Sugar Industry

More than 31,000 farmers in Michigan, Ohio, Indiana and Wisconsin, produced \$25,300,000 worth of sugar, dried beet pulp and molasses the past year. In the four states there are 23 beet sugar factories, which, it is estimated, will produce 872,654,000 pounds of refined sugar, pulp and molasses. Under the participating contracts, in effect with most of these factories, the farmers get half the net cash return from the sale of these products.—Indiana Farmer's Guide.

Along the Furrows

Pruning before growth starts is best for trees and shrubs.

Consumers in this country ate more than 15,000,000,000 pounds of meat in 1933.

Sugar beet shipments from Utah in 1933 were 10 per cent higher than those of 1932.

Number of farms supplied with high-line electric service in Ohio rose from 16,000 in 1923 to 43,000 in 1933.

Ohioans destroyed in 1933, a total of 178,004 common barberry bushes on 575 properties in 23 counties.

In recent years, over 90 per cent of the United States flax crop has been produced in North Dakota, Minnesota, South Dakota and Montana, the states ranking in production in the order named.

Cables Across Atlantic
The first attempt to lay a cable across the Atlantic in 1857 ended in failure when the cable broke at the depth of 2,000 fathoms. In August, 1858, a cable was successfully laid between Valentia, Ireland, and Heart's Content, Newfoundland. There are twenty-one cables across the Atlantic between North America and Europe. The outside diameter of the ordinary deep-sea type of cable is about one inch, and the weight in the air about two tons per nautical mile. The shore-end types run as large as three and one-half inches in diameter and weigh as much as thirty tons per nautical mile.

Presbyterian Presidents
Presidents belonging to the Presbyterian denomination were Andrew Jackson, James K. Polk, James Buchanan, Grover Cleveland, Benjamin Harrison and Woodrow Wilson.

Your Home Print Shop First.

Dignified St. Bernards Splendid Mixture of Dog

A pinch of Newfoundland—a drop of bloodhound—mixed with a good measure of mastiff—and embellished with a dash of Great Dane!

Such are the ingredients which, when blended in their proper proportions, have given us that exceedingly fine race of dogs—the modern St. Bernard, observes an authority in the Los Angeles Times. True, he is a cross-breed. But where in any breed can be found a dog more admirably suited in disposition, temperament and dignity for the owner who demands size in a companion and guardian?

Docile and patient, his indulgent tolerance of the thoughtless abuse by children, is characteristic. Entering into their play in his somber way, he adopts them as his personal charges, overlooking their annoying pranks, and is ever ready to defend and guard them against intruders. His great size and impressive voice—deeper and of tremendously greater volume than other dogs—is their protection against molestation. In his own way he will inspire hope and confidence within even the most timid child.

His size, strength, loyalty and bravery are traditional. Legends of his noble work in the snow-covered Alps in his native Switzerland are many. A decade ago, no artist ever portrayed him without the customary restorative-laden barrel tied about his strong neck. Smaller than our present-day St. Bernard, he was developed originally by the monks of the Hospice of St. Bernard, from the Danish bulldog and the mastiff sheep dog of the Pyrenees.

King Tut Not Important in Affairs of Egyptians

King Tut-Ankh-Amen's place in Egyptian history is not especially important, in spite of the world-wide interest the discovery of his tomb aroused, notes a writer in the Chicago Tribune. King Tut was the last of the rulers of the Eighteenth dynasty, most prosperous of the middle empire. The young Pharaoh died in 1350 B. C. at the age of eighteen. During his reign the royal priests of the court were the actual rulers of Egypt.

The mummified body of the boy king still lies in the beautiful stone sarcophagus in the burial chamber of the tomb, just where it was placed by the priests more than thirty centuries ago.

The tomb was preserved unviolated for more than 3,000 years through an accident. Two hundred years after his death the architects of Rameses VI, in excavating a tomb for that Pharaoh just above that of Tut-Ankh-Amen, threw dirt and debris down the slope completely covering the earlier tomb.

Study of the ancient tombs of the Pharaohs and other antiquities connected with the crumbled empires of Egypt began seriously in the Nineteenth century when Napoleon, during his Egyptian campaign, ordered his archeologists to dig into the ruins. This activity led to the discovery of the famous Rosetta stone.

Starlings

Although noisy, the starling is one of the most interesting species of bird life, says a writer in the Chicago Tribune. About the size of a thrush, the starling appears to be black at a distance. When seen close at hand the purple, green, and blue of its plumage can be observed. Farmers are always glad to see large flocks of starlings in their fields, as these birds are voracious insect eaters. In flight a flock of starlings presents a majestic sight. The birds fly in close formation, and a large flock of them resembles a black cloud. The flock wheels, turns, ascends, and descends with remarkable precision. In cities, particularly during the breeding season, the starlings become a nuisance because of their noise.

The John Fitz Medal

The John Fitz medal was established by a group of scientists and manufacturers in 1902 to be awarded in recognition of notable discoveries in industry and science. It was named in honor of John Fitz, an American expert in the manufacture of iron and steel. He was the first to introduce the Bessemer process into the United States, and was a pioneer in other methods now generally in use.

Brussels Sprouts

Brussels sprouts is a special variety of cabbage, deriving its name from Brussels, Belgium. Its origin is obscure, but there are records indicating its sale in the markets of Belgium as early as 1213. In its seedling stage and early life it closely resembles the ordinary cabbage, but later the auxiliary buds along the erect stem develop into small heads or sprouts, an inch or more in diameter.

Longest Word in Dictionary

Honorificabilitudinitatibus is the longest word in the American dictionary, although some English dictionaries carry Antidisestablishmentarianism. The former means honorable, the latter a doctrine of opposition to disestablishment.

Smallest of Fishes

A tiny goby, native of the Philippine Islands, is said to be not only the smallest of fishes but the smallest of all known vertebrates. In spite of their diminutive size, an adult fish being but half an inch long and exceedingly light in weight, these gobies are relished as food. The favorite method of serving them is to mix great numbers of them into a batter which is then baked in the form of little cakes.

LATHAM.
May 28.—Miss Merle Bowen, teacher in the Cottage Grove high school, visited Tuesday evening with Miss Wilma Sutherland and Miss Lillian Hull at the Hull home.

Wayne Walker and Dorothy White have recovered from attacks of measles.

NOTICE OF ANNUAL SCHOOL MEETING.

Notice is hereby given to the legal voters of School District No. 45 of Lane County, State of Oregon, that the Annual School Meeting of said district will be held at the auditorium of high school building, to begin at the hour of two o'clock p. m. on the third Monday of June, being the 18th day of June, A. D. 1934.

This meeting is called for the purpose of electing one director to serve three years and one clerk to serve one year and the transaction of business usual at such a meeting.

In districts of the second and third classes the ballots shall not be counted until one hour after the time set for the meeting to begin. Until the count begins, any legal voters of the district shall be entitled to vote upon any business before the meeting.

Dated this 22nd day of May, 1934.
CHARLES A. BEIDLER,
Chairman, Board of Directors.
Attest: Worth Harvey,
m2-31c District Clerk.

Typewriter Ribbons. The Sentinel.

Eldon Walker spent several days at the home of Mrs. Olive Keeney in Creswell this week.

Elaine Fry of Cottage Grove spent Sunday with Irene Trunnell.

Mrs. Charles Smith was called to Washington last week by the illness of a daughter.

W. T. Garoutte and Belva Garoutte spent two days recently at the Nelson Garoutte home in Lane.

Mrs. Christina Hansen and Mrs. Anna Wilde of Junction City visited from Wednesday until Saturday at the Mads Overgaard home.

Mrs. Overgaard took them home. Mrs. Carl Buffington and son of Cottage Grove visited Wednesday and Sunday at the R. O. Yearous home.

Mrs. Lee Williams and son Allan Lee are visiting several days at the home of Mrs. Anna Seybold in Merlin.

Mr. and Mrs. Johnny Olson and two daughters of Cottage Grove visited at the Lee Williams home Friday evening.

Mr. and Mrs. Charles Pohley of Cottage Grove visited Sunday at the Meari Porter home.

BASEBALL

SEE THE COTTAGE GROVE PENNANT-WINNING TEAM PLAY

Springfield Here Sunday

2:00 P. M.—KELLY FIELD

IT TAKES BOOSTERS TO MAKE WINNERS

SAFEGWAY STORES



JOIN MY "BASEBALL CLUB" AND WIN A "BASEBALL, A FIELDER'S GLOVE OR A TRIP TO NEW YORK OR CHICAGO!"

For membership badge and details, send one box top from a package of Quaker Puffed Wheat or Rice to Babe Ruth's Baseball Club, Box 1083, Chicago.

Specials Friday and Saturday

Puffed Wheat 2 pkgs. 19c

- Snowdrift 3 lbs. 42c
Rich, creamy shortening
- Albers Flapjack 9-lb. bag 49c
For delicious waffles

Ivory Soap medium bar 5c

- Camay Soap 3 bars 13c
The soap of beautiful women
- Oxydal . . pkg. 18c
Washes clothes cleaner

Grape Nut Flakes pk. 9c

- Macaroni . . 2½ lbs. 15c
Mighty fine in salads
- Sugar . . . 3 lbs. 15c
Golden brown

Waldorf Tissue 6 rls 25c

- White King pkg. 29c
The perfect granulated soap
- Tuna Fish . tin 15c
White Star—for salads

P & G Soap 10 bars 25c

- Corn . . No. 2 tin 13c
Del Monte Golden Bantam
- Spinach No. 1 tin 8c
Libby's fancy

Airway Coffee lb. 21c

- Candy Kisses bag 10c
Made in the west's finest candy factory
- Syrup . . . quart 35c
Maximum cane and maple

Pure Lard 3 lbs. 23c

Bacon . . . lb. 18c

Eastern sugar cured

Pork & Beans . tin 5c

Van Camp's—lb. tin

Nucoa . . . lb. 12c

The quality spread

Mayonnaise . . pint 27c

Best Foods for quality

Jello pkg. 5c

Assorted flavors

Camels

Smoke a Fresh Cigarette

2 pkgs. 23c

Pineapple

Libby's Crushed

8-oz. tin 6c

Cottage Grove Free Delivery

VEGETABLES AND FRUITS



Oranges 2 dz 25c

Best juice

Bananas . lb. 5c

Fancy ripe

New Spuds 10 lb. 25c

Large fancy white

Lettuce head 5c

Fancy Oregon

Tomatoes bskt. 25c

Fancy field grown

Lemons doz. 23c

Large 360s



Spinach 3 lbs. 10c

Fresh and tender

Onions 4 lbs. 10c

California red

Cucumbers each 5c

Fancy slicers

Cabbage lb. 3c

Fresh and crisp

Grapefruit doz. 39c