

Out of the Woods

By JAMES STEVENS

A Tree Grows . . .

The Ponderosa pine east of the Cascade Mountains and the Douglas fir of the west side bear fruit in the form of cones. They ripen in the fall, the seed chambers are opened by dry winds, and the seeds fly forth. A seed that alights on a sprouting place and keeps life in its kernel through the winter will awaken in spring. We do not know what moves the seed from sleep, but spring warmth and moisture bring its growth hormone to life. The enzymes in the chemical composition of the seed go to work. They make sugar of stored fats and starches in the nut. Stored proteins are split into 20 or more soluble compounds called amino acids, from which enzyme forces form more materials to keep the embryo tree growing.

The new tree shoots into the open, like a tender blade of grass. Threads of roots worm downward. Tiny, delicate leaves spread from the bud at the top of the shoot. A third area of growth is around the stem. This growth is the cambium layer. It is a thin tissue, a single layer of cells that sheathes the stem. The cambium cells have the power to divide. As they begin to work they split off rows of wood cells within the cambium sheath and bark cells on its outside.

Bark and Roots . . .

Most of the bark is sloughed off as the tree grows, while each year's new ring of wood is left in storage. As the tree grows on year by year, each annual growth ring has a light circle of springwood and a darker band of summerwood, forming the pattern seen in log end or stump top.

A tenth or more of a tree's wood is in its roots. They tie the tree to the place of its birth. They supply water and minerals in solution for life and growth.

"The stomata open their little shutters early in the morning," says U.S. Forester N. T. Mirov. "At noon they begin to close, and just before sunset they are closed tight for the night."

The stomata are small pores of leaf tissues. They open to let air in to cells that contain a green substance called chlorophyll. The air carries vital traces of carbon dioxide, and a tenth of it will be taken in by the chlorophyll. The process goes on in combination with the oxygen and hydrogen of water, forming sugar.

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GATES

Members of the sophomore class of the high school presented a play and pie social Friday evening at the high school. The cast included the entire class. Allen Vale acted as auctioneer.

The Gates Parent-Teachers association met at the high school for the final meeting of the year, Thursday evening. Installation of officers was held with Mrs. William Pennick, president; Mrs. Clarence Ball, vice president; Mrs. Elmer Stewart, secretary, and Mrs. Charles Tucker, treasurer. Mothers of the fifth and sixth grades acted as hostesses. Meetings will be resumed in September.

Visitors at the Joe Novak home at Gates on the weekend was Mr. and Mrs. Arthur Skinner from Dexter, Oregon.

Corp. Marshall L. Lake, who has served with the armed forces in Korea for the last 18 months, returned home Friday and will receive his discharge from the army. His brother, Arthur Lake, who is in training at Fort Lewis, arrived in Gates Sunday to welcome his brother, Mr. and Mrs. Marshall Lake, Arthur, and their father, Russel Lake, Mrs. Clyde Schroeder and baby, drove to Silverton Sunday where they attended a Mother's Day dinner with other members of the family at the home of Mr. and Mrs. Frank Powell.

Mr. and Mrs. David Barnhardt and daughter and Mr. and Mrs. A. T. Barnhardt and two children spent Mothers'

The sun's energy supplies the power, so the process is called photosynthesis.

Tree Fat and Muscle . . .

The sugar is the type known as "dextrose." From it 95 percent of the body of the tree is built through a maze of reactions. One reaction combines dextrose with nitrogen to make amino acids from which proteins can be created. Only plants create proteins, which are essential to all life. Trees are plants. A forest in nature is a family of plants.

The bole of a tree may be 50 percent water, with leaves and roots 90 percent water content. All the processes of tree life occur in water solutions. Water enters the roots, and rises up sapwood channels to the leaves by the drawing force of solar energy. The lift may be as much as 300 feet in an old-growth Douglas fir.

Through the stomata the tree's excess water is given to the atmosphere through the tree by a process called transpiration. The surface of the leaf cells that contain chlorophyll are kept moist by transpiration.

A Douglas fir that is four feet thick and two hundred feet tall may have as much as 30,000 square feet of leaf or needle surface to catch the energy of the sun.

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Day at the home of Mr. and Mrs. G. C. Barnhardt.

Mrs. Laura Joaquin, who has made her home in Gates for the past five years, left Wednesday evening by train for San Jose, Calif., where she has accepted employment. She plans to remain in that city indefinitely, but will return to Gates to make her home.

Mr. and Mrs. Layton Gosnell and son Larry of Roseburg, spent Saturday and Sunday at the home of Mrs. Gosnell's mother, Mrs. Joaquin.

Mrs. George Bailey and Leland spent the weekend in Vancouver and Gresham, where they were joined by Mr. Bailey, who is employed in Portland.

Albert Millsap visited his daughter and family, Mr. and Mrs. E. W. Klecker, at their home in Madras several days last week. Another guest was Mr. Klecker's mother, Mrs. Mary Klecker of Stayton.

Mrs. Robert Levon and Mrs. Gwen Schaer were hostesses at the latter's home Saturday evening honoring their father, Clarence Johnson, and Mrs. Schaer's son, Royal, on their birthday anniversaries, which fall on the same date.

Refreshments were served by the hostesses to the honored guests, Mr. and Mrs. Lewis Kelle, Mr. and Mrs. Edmund Davis, Mr. and Mrs. Elmer Stewart, Mr. and Mrs. Walter Brisbin, Robert Levon, Mr. and Mrs. Len Young, Mrs. Martha Bowes and son Joseph, Mrs. Lincoln Henness, Mrs. Colis Heath, Mrs. Mable Knutson, Mrs. Gerald Heath, Mrs. Velma Carey and Mr. and Mrs. Albert Millsap. Prizes were awarded Mr. Kellis and Mrs. Gerald Heath, first; Mrs. Bowes and son receiving consolation.

Mr. and Mrs. William Pennick attended the coronation of the May queen, Jeanine Bentley Bonebrake, at Linfield college, Saturday. Billy Pennick, small son of the Pennicks, was train bearer and his sister, Patsy, danced at the coronation. Mrs. Pennick and Mrs. Clausie Ammon spent

IT'S AMAZING!

THE ANCIENT SPACEMEN SURVIVED THEIR DEAD IN COFFINS MADE FROM THE BOARDS OF THE SAME TABLES FROM WHICH THE DECEASED ATE!

THE BREATH CAN BE HELD FROM 6 TO 8 MINUTES BY FORCED BREATHING! THE RECORD IS OVER 13 MINUTES!

THE CHINESE REGULARLY SPRINKLE EARTH, SCRAPED FROM THE GRAVES OF THEIR ANCESTORS, ON THE ROOFS OF THEIR HOUSES, SO THEY CAN ABSORB THE DEPARTED ONES' VIRTUES!

IN ALBANIA WHEN A GIRL OFFERS A MAN A PIECE OF CAKE BAKED BY HERSELF, IT SIGNIFIES AN INVITATION TO COURTSHIP!

73. DURING PREHISTORIC TIMES IT WAS CUSTOMARY TO SHOW A NEWBORN BABY TO ITS FATHER WHO DECIDED WHETHER OR NOT IT SHOULD BE PERMITTED TO LIVE!

A MONUMENT TO A BOOK WAS ERECTED IN BUDAPEST HUNGARY, IN 1932...

a day in Portland shopping, after which Mr. and Mrs. Pennick and children spent the weekend in Jefferson at the Ammon home.

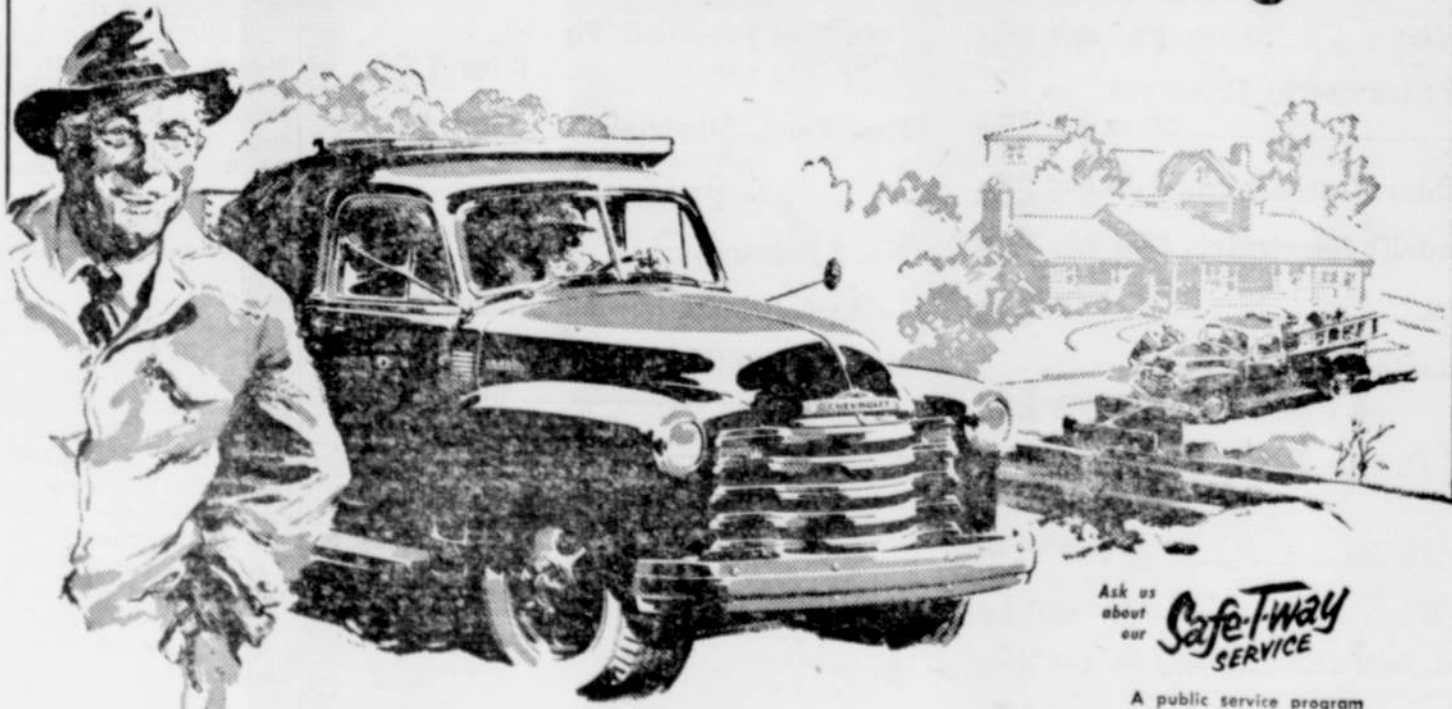
Burning Permits Required For All Debris or Trash

Detroit—A reminder comes from the Detroit ranger station that burning permits are now required for all burning of debris and trash on private, state and national forest lands. Logging operations are required to shut down when the humidity falls to 30%, and watchman service is required on logging operations.

Open Elimination Tournament Every Sunday 3 p.m.

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