

THE PATTON COURIER

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GROWTH OF TREES IS LIMITED TO 40 DAYS DURING EACH SEASON

When do trees grow? Investigations of tree growth conducted under the direction of State Forester Joseph S. Illick of the Pennsylvania Department of Forests and Waters have brought to light some interesting revelations. "The belief is prevalent," says Dr. Illick, "that trees grow throughout the general growing or vegetable season, which embraces in Pennsylvania from 150 to 200 days, and extends from the last killing frost in the spring to the first killing frost in the autumn, when the leaves exhibit their autumn coloration. This is a mere supposition, for most of the native and introduced forest trees in the Mont Alto State Forest, Franklin county, were found to make 90 per cent of their height growth in less than forty days."

In the course of study, thousands of tree measurements were taken. Many trees, including more than half the different kinds found in the State, were measured at regular intervals weekly, intervals and detailed records of temperatures and rainfall were also kept in order to interpret the influence of climatic factors. Over 200 trees were measured daily during one growth season, and in addition to certain groups of trees were measured both in morning and evening.

No taut forest trees begin to grow at the same time. Some start early in spring while others begin rather late. The wild black cherry is the first forest tree to begin height growth in southern Pennsylvania. Its twigs begin to elongate about the 4th of April. The domestic cherry begins growth about four days later. Sweet buckeye begins about April 6, white pine about April 18, and tulip tree about April 25.

Species Meet

Pennsylvania is the meeting ground of many northern and southern trees and the southern varieties begin growth later in their northern natural extension, or where artificially planted, in this State. The eastern catalpa, from the South Atlantic states, starts growth with us during May, and other typically southern trees as persimmon, Kentucky coffee tree and bald cypress, postpone growth until late spring. This is a fortunate provision of nature, which defers their growth until the period of frost danger is past.

The first tree to complete its height growth of the season in Pennsylvania is sweet buckeye. It stops growth in the southern part of the State during the second week in May, and by June 15 one can find full sized winter buds for the spring of the following year. One year, on June 10th, seventy-nine different tree species were examined and it was found that 70 per cent of them had ceased height growth. Most of our trees cease this growth by late May or early June. Only a few continue height growth into July, and by August 1st has ceased for all our trees.

It also was discovered that the first trees to complete growth are not always the first that begin growth in spring. Some of the first species to begin growth may take long to complete it, while others that commence late may complete the season's growth relatively early. Larch, for instance, is one of the first to open its buds in April, and may continue until middle or latter July, while Norway spruce starts about May 6 and by June 15th has made more than 99 per cent of its growth and all of it by the end of the month.

Another interesting discovery was that of intermittent growth periods that, or some time, and then resume growth. Such periodicity of growth appears to be peculiar to certain species, and is not unusual. Thus pin oak, chestnut oak, and pitch pine frequently begin to place a second growth 10 to 25 days after the original growth period is over.

Considered most interesting of all was the discovery that trees make most of their growth at night. The greatest growth is usually during the afternoon when the trees are busy manufacturing food materials. Norway spruce actually made 82 per cent of its height at night; white pine made 61 per cent; allanhus 65 per cent. On the average it was found that most trees make two-thirds of their height growth at night.

SUGGESTS CAUSE FOR DEER DEATHS IN WOODS

That fly maggots may be the possible cause of death of deer in central Pennsylvania was revealed by Professor N. H. Stewart, of Bucknell University, in an address before members of the Pennsylvania Academy of Science which held its annual meeting at the Pennsylvania State College last week. Professor Stewart made a request that heads of deer found dead from natural causes be sent to him at Lewisburg so that he may continue with his research study on the cause of death of deer in the State.

More than sixty prominent scientists of Pennsylvania attended the two-day meeting of the Academy. Thirty-four dealing with botany, zoology, physics and chemistry were present. How the X-ray is being used to tell the scientific world new facts about zoology and entomology, the latest discoveries in the geological formation of the earth's crust of Pennsylvania and other developments in the scientific world were discussed by the scientists at their meeting.

HORSE SHOE PITCHERS TO BE AT EXPOSITION

Under the rules of the national association horse shoe pitching in West-Ohio and Central Pennsylvania Eastern Ohio and West Virginia will have a chance to compete for valuable money prizes or trophies on July 1 the opening day of the great Cambria County Industrial Exposition, at Ebensburg, Pa. This tournament will be between teams of two men or two women, the male teams to pitch a distance of forty and the women, thirty feet. Copies of the rules of the national association and also entry blanks, with all additional information, can be obtained by applying to Secretary H. Frank Dorr, at Ebensburg. It is known already that many of the locally prominent teams in Western Pennsylvania are going to take part in this contest. Copies of the rules for the coal loading contest and also entry blank can be secured from the same place as those for the horse shoe pitching contest. This coal loading elimination race has certainly made a great many boosters in the mining towns, draw in their horns. All the self styled champions are not going to be on the Exposition grounds on the forenoon of Saturday, July 6th, the closing day of the Exposition, for it is easier to tell about one's ability than to prove it.

The bench show executive committee of the exposition is to meet in Ebensburg next week to determine the rules that will govern locally, although not to conflict with those of the American Kennel Club, under license of which the Dog show will be held. These rules and regulations will mostly be in connection with the prizes to be awarded. The Executive committee will also appoint working committees. George Koenner, of Johnstown, will be chairman of the executive committee at this meeting and will be ably assisted by Ralph English of Port Matilda, Pa., a nationally known authority on dogs and bench shows. The executive committee consists of 25 members.

The executive committee of the Volunteer Firemen's Association of Central Pennsylvania met, last week, in Barnesboro and appointed the committees that will have charge of the next annual convention, which is to be held at Ebensburg, July 1 and 2 when the Dountless Fire Company of the county seat of Cambria County, will be hosts to the conventioners.

The members of the Dauntless company are also busily at work planning the details of the entertainment of the visiting firemen and will have quite an extensive program to give out in a few days.

In fact, things are beginning to focus down so that a clearer view can soon be gotten of all the entertainment features, contests, exhibitions, racing programs, dancing and the other amusement that are to combine, this summer, to make the Cambria County Industrial Exposition the biggest thing of its kind and the greatest season of that exposition, yet held in the Eastern United States.

Secretary H. Frank Dorr and his assistants are busy from early to late, allotting space to exhibitors, sending out entry blanks for the different contests, arranging for the prizes and trophies that will be awarded and, in every way, letting an eager clientele know just how they may participate in this great exposition held at Ebensburg.

FORESEES WORLD BANK TO HANDLE RESERVES OF GOLD

An international bank for management of the world's gold reserve is forecast by Congressman L. T. McPadden, of Canton, Pa., Chairman of the House Committee on Banking and Currency. Such a bank, McPadden says, might prove of great value in financial affairs if its control could be properly safeguarded.

"Primarily such a bank would be used in connection with the debt settlements and payments incidental thereto," McPadden said, "and also to effect international adjustments incidental to Government as well as trade and financial transactions. If established, such a bank should ultimately lead to a central mobilization of ear-marking control of the world's entire gold reserves and possibly its management."

"The development of this idea has no doubt proceeded through the observance of the successful operation of the gold settlement fund of the Federal reserve system. The intimation of such an international plan is of great magnitude and importance to the whole world."

"If properly safeguarded, such an institution should be of inestimable value to this country and to the world. It should bring about economy in the use and transportation of gold. It should bring about a better equilibrium between countries. It should be a great facility in the settlement of international accounts in differences and should tend to lessen the consequences of errors in financial policies."

"It should be a great shock absorber and enable central bank managements to bring about greater price stabilization. Such an institution should however, have no voice in the determination of interest or discount rates, and tendency to make such an institution a superbank with centralized control should be avoided."

CHILD HEALTH WEEK

A report submitted recently to Secretary of Health Dr. Theodore B. Appel, by the bureau of child health showed that 59 counties now been organized for the child health activities during the first week in May. According to the reports now being received by the Department this year will mark the most ambitious program yet undertaken along this line. Emphasis in Pennsylvania will be laid upon the six year old child in order that physical handicaps may be removed prior to entrance into school next autumn.

SEEK MORE CAMP SITES

The Department of Forests and Waters in the near future will make a survey of all recently acquired land to determine camp site possibilities.

FARM CALENDAR

Use Wax in Grafting - In grafting apple trees all cut surfaces must be completely covered with wax to prevent drying out. Two kinds of wax can be used; melted and soft.

Fight Celery Blights - Spray celery plants with a 4-4-50 bordeaux mixture to save them from bacterial and fungus blights. Apply with 300 pounds pressure at intervals of 7 to 10 days.

Use Clean Litter - Planer shavings give very satisfactory results when used for litter in poultry houses. Cut alfalfa, cut clover, or cut straw also give good results when used as litter.

Spray Apple Aphids - Use lime-sulphur and nicotine-sulphate to control the apple aphids. Spray when the buds are in the delayed dormant condition, say Penn State entomologists.

Improve Garden Soil - If your home garden is composed of a heavy stiff soil that has a tendency to become hard and form a crust after rains, it can be improved by turning under manure or any other vegetable matter. Coal ashes also are good but they add no fertility. Ten pounds of lime per square rod will improve the soil physically and aid in producing better crops.

Save Oats from Smut - An expenditure of 2 or 3 cents for formaldehyde and about three minutes of time per acre will prevent oat loss from smut attacks. The average loss in untreated oats is two bushels per acre.

Rake off Mulch - After all danger of late frost is passed, rake off the coarser material used in mulching shrubs and flowers stir the fertilizer into the soil. A top dressing of bone meal will also prove beneficial.

STUDENTS RECEIVE SCHOLASTIC HONORS

Honors are divided between the girls and men in the scholastic standing of the four classes at the Pennsylvania State College for the first half of the present academic year, according to a report compiled by W. S. Hoffman, the college registrar. Two co-eds held the highest averages in the senior and sophomore classes while male students headed the lists in the junior and freshman classes.

The following is a list of those who received first, second, and third places, respectively, in the scholastic standing of their classes for the first semester: Senior class, Helen L. Geer, Lock Haven; Lester M. Zook, Chambersburg; and Charles H. Chadman, Lumberton; Junior class, George H. Young, Somerset; Harry W. Lightstone, Loyalville; and Marjorie Hathaway, Philadelphia; Sophomore class, Florence V. Kraft, Philadelphia, John D. Hartman, Worcester, and Forrest Steele, Brookville; Freshman class, David M. Jones, Forty-Fort; Matthew McNeary, Philadelphia, and for third place the following three were tied, Jean Simmons, Hazleton; Perry E. Seamans, Westfield, and William Rosenzweig, Dunmore.

DRAMATIC OFFERS IN EXTENSION SERVICE

A dramatic extension department for coaches of high school and preparatory school plays throughout the country has been established at the Pennsylvania State College by Professor Arthur C. Cloetingh, instructor in English and director of the Penn State Players, a dramatic organization on the college campus.

The department offers its service to high school coaches and others who wish assistance in problems of stagecraft such as scenery, lighting or costuming. Several thousand plays from which coaches and others may make selections for reading are available and the department will assist those who desire help in selecting certain types of plays. A small fee for mailing is the only charge made for the service. A number of bulletins pertaining to amateur play production also are published by the department and will be sent to those who request them.

TEST 20,039 COWS IN KEYSTONE HERDS

Fifty-nine Keystone associations tested 20,039 cows during February, the Pennsylvania State college dairy extension service reports.

One cow in six gave over a half ton of milk, while one cow in nine produced more than 40 pounds of butterfat. Of the 1000-pound cows, 1489 gave more than 1200 pounds of milk, and 665 of the 40-pound fat producers exceeded the 50-pound mark.

Testing the largest number of cows, 526, was the Wayne association. Cumberland No. 1 had the largest number of 40-pound butterfat producers, 102, and the greatest number of 1000-pound milkers, 146. During the month 189 cows were found to be unprofitable and were sold to the butchers.

USE GOOD PRACTICES IN 400 BUSHEL CLUB

More than 800 records submitted by members of the Keystone 400 Bushel Club during the seven years that organization has been in existence prove the methods of these potato growers entirely practical, says Nicholas Schmitz, farm crops extension specialist of the Pennsylvania State College.

He states that the records show that high yields are not confined to any one locality or particular soil type. Practically every county and every well-drained soil in the state has at some time been represented. The growers and their methods apparently are becoming important from the economical standpoint than soil or climate.

COLLEGE RADIO STATION CHANGES PROGRAM TIME

Beginning April 4, radio station WPSC of the Pennsylvania State College will change the time of broadcasting its daily programs from 12:45 to 12 M. At this hour on each day except Saturday and Sunday, timely agricultural talks are broadcast. The Sunday chapel services broadcast remains at 11 o'clock.

Game protectors brought 156 prosecutions for law violations during February, an increase of 44 over the same month last year.

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FIND 40 SOIL TYPES IN LYCOMING COUNTY

Fifteen series, comprising 40 types and 6 phases, exclusive of rough stony land and mack, were found in a soil survey of Lycoming county, a report of which has been published by the Bureau of Chemistry and Soils of the United States Department of Agriculture.

Field work on the survey was done cooperatively in 1923 by E. H. Stevens and B. H. Hendrickson, of the federal bureau, and Professor A. L. Patrick, C. B. Manifold, and C. G. Degen, representing the Pennsylvania State College agronomy department. Chemical analyses of the soil have been run since then and soil maps and report prepared.

Edward Anderson, aged 79 years, died at his home in Cherry Tree late Thursday night. Death was caused by a complication of diseases.

The deceased's wife preceded him to the grave. He is survived by three children, Thomas Anderson, of Cherrytree Ford Anderson, of West Palm Beach, Fla., and Mrs. Catherine McNulty, of Commodore.

Funeral services were held at 2 o'clock Sunday afternoon in the McDowell Church, with burial in the church cemetery.

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Who's Who? Look in the Telephone Directory

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DIRT TRACK

Since Maj. Beach, shafted Golden Arrow stirred up a with dirt track classic speed but that is of Blair C. Seed Fair Association agreement with comobiles Race headquarters Pittsburgh, race next track, Ebenst

With the entrants will turns racing this will require endurance but those who co

The Whipp speed demony prize and several gevile speed season and t Ray Keck, a so that even turns as high speed may li champion air the dirt track coration day.

This is the automobile race drivers has be Brur. Some of of the Intern Association track and cla ing it is idenl way and that w sand track at

The race will track at Eben Thursday. May easily accessible ways with pa cars right on conveniens f guests.

FRANK CROMB

Frank Cromp South Fork, die City Hospital, been making r for about a ye a son of the la Mackey Cromp of Harry, Jame ton, all of South on, Panama Citi ris. Scalp Levell.

TROXELL

W. G. Troxell ged with leaving incident following way between M Nanty-Glo Mar mobile driven t Johnstown, was hearing before Clume. The pro produce evidenc charges, it was dismissed, the co the county.

MISS MAIL

Miss Mary M Wednesdays of her brother-m of South Fo one brother, Th two sisters, Mrs Mrs Margaret R Funeral service 9 o'clock Friday Catholic church ment was in the in Altoona.

MAMULA GR

Nick Mamula c tence Thursday in the Cambria had pleaded guil ge R. M. Gibson the prohibi charged with po labor Nov. 11, 19 and on Dec. 1, 19 for similar violat incident in the

LIST TIME IN APPEAR ON MA

What time of pear on the for of Pennsylvania' asked of the Pen of Forests and hars, students. B hiking clubs, nat and lovers of th

The differenc flowers may am two weeks in t species found in southern parts planted near bu cities frequently to a week before expected condit meet the demand the following tab in which the rel tree makes it e cally in Pennsylv as this moti indicate that th extends from the month into the ceeding month.

March—Pussy March—April— maple red map alder, Redbud.

April—Aspens, maple, dogwood, s beech.

April—May—St parava, buckeyes.

April—June—Cuc May—Walnuts, sassafras, ashes, l rry, fire cherry, o

May—June—Stri cherry, crab appl mulberry, black mountain laurel, pin, tulip tree.

June—Rhododeo maple, common alanthus, Kenic orange.

June—July—Whi chestnut, laurel June—August—H October—Novem