



GARDEN TIME
m. e. gardner
n. c. state college

What's new? Many of my readers have heard about, and some may have used, gibberellic acid for the hormone effect it has on plant growth.

For this report, credit is due Armand Division of Abbott Laboratories of Ventura, California, and Farm Technology of Willoughby, Ohio.

Gibberellic acid is a very unusual compound in that it is not produced by synthetic processes. It is produced by a deep culture fermentation of a fungus, Gibberella fujikuroi, first discovered in Formosa in 1926. It is a natural growth hormone and has less toxicity than many of the so-called non-toxic chemicals.

A few examples will serve to indicate the type of research being conducted by the Abbott Laboratories and some of the plant responses that have been observed to date.

Lemon trees have responded with larger green fruit suitable for storing and marketing as fresh lemons and a decrease in small yellow lemons which must be processed into juice. There

has also been a delay in harvest time so that the peak production will come closer to peak sales months in the summertime. In the field of breeding, gibberellic acid has been used to induce blooming (formation of seed stalk) in lettuce.

In Florida gibberellin has been used to induce sprouting in newly harvested Irish potatoes. The stimulation from the hormone has the effect of by-passing the normal rest period necessary to induce sprouting.

In New York and Michigan it has been found that treatment of sour cherry trees infected with a virus disease can be made productive again. In Washington gibberellin treated sweet cherry trees have produced firmer fruit and better color. The ripening of the fruit has also been delayed which extends the marketing season. Yield increases have been observed on corn and a larger boll set on cotton.

Other studies are being conducted with strawberries, grapes, tobacco and ornamental crops

Non-Farm Jobs In November Show Decline

RALEIGH — Nonagricultural employment registered a seasonal decline of 4,200 in North Carolina during November, the State Department of Labor reported today.

Despite the drop, said State Labor Commissioner Frank Crane, the November non-farm employment figure was the highest on record for the month.

Crane said 1,373,100 Tar Heels were working in non-farm jobs last month. The November total was 43,100 higher than the figure reported for November, 1963.

Factory employment totaling 574,100 last month, although down 8,500 from October's record high, was 16,200 higher than a year ago, Commissioner Crane said.

Nonmanufacturing jobs totaling 799,000 were 4,300 higher than in October and 26,900 higher than a year ago.

Principal seasonal job decreases over the month included 10,500 in tobacco stemmery, 800 in food processing, 300 in service industries, 200 in ordinance and transportation equipment, and 100 each in mining, wholesale trade, schools, State and local government, and finance, insurance and real estate.

The November employment decreases were largely offset by a seasonal rise of 4,000 in retail trade; a gain of 1,500 shared in by all divisions of the textile industry; increases of 400 each in lumber, fabricated metals, construction and transportation; gains of 200 each in furniture, electrical machinery, apparel manufacturing, and Federal government; and increases of 100 each in stone, clay and glass products, paper and allied products, and communications and public utilities.

Hourly earnings of the State's 574,100 factory workers increased two cents during November, rising to an average of \$1.78. The workweek increased fractionally to a November average of 41.8 hours. Weekly earnings averaged \$78.40 — up \$1.18 from the October average.

such as roses, camellias and others.

This is a brief progress report for your information and not a recommendation that you treat everything around the house with gibberellin.

It seems apparent that this natural hormone, properly used, holds much promise in helping solve our ever-increasing needs for food and fiber.



JOURNEYMEN COMBO — Pete Small of Kings Mountain, second from left above, is a member of the six-member Journeymen Combo featured at the Club Elite in Nashville, Tennessee. Small is spending the Christmas holidays with his mother, Mrs. Joe Goforth. The Combo goes to Denver, Colorado and Los Angeles, California in March for playing engagements. They will also appear on the Nashville television program, "Night Train." Small is a Kings Mountain native, attended Kings Mountain high school and has been drummer for the band of musicians for four years. From left, John Bradley, Pete Small, Brent Maher, Al Williams, Bob Foythress, and Buddy Bradshaw.

When Christmas Groups Gather It's Game Time For All Ages

Everyone's a child at Christmas time, and that's why there's nothing as much fun when family and friends gather as game-playing. Since Christmas groups usually include both children and adults, games that both can enjoy are best.

The following games can be played with no special equipment, other than that on hand.

CHARADES...

Christmas charades is a lively game that the whole family will enjoy.

Divide the group into two teams. Individual members of teams are called upon to act out a word, character, phrase, scene or situation — and since it's

mas to All" A time limit is set, and the rule is that no letter can be used in any word more often than it appears in the phrase.

In other words, words made from "Merry Christmas to All" can include no more than one "e," "i" or "o," while they could contain as many as two "m's" or three "r's."

Since word play involves competition among its players, it's advisable to allow the children to compete against one another, while the adults battle it out among themselves.

SANTA'S SLEIGH...

"Santa's Paking His Sleigh" is a quiet Christmas game that provides fun and hearty laughter. It starts simply enough with one member of the group saying, "Santa's packing his sleigh, and he's bringing a toy dog."

Then each person repeats the sentence, adding another gift to Santa's sleigh. The object of the

Seeking Log Family Affair

The traditional Yule log survives today more in art, song and story than as an actual "blazing Yule." After all, not every home has a fireplace nowadays, and even when a fireplace exists, its proportions are usually far from sufficient to accommodate the Yule logs of yesteryear.

During ancient times in England, however, it was a solemn family ritual to select the log, dry it and burn it according to custom. Logs from fruit-bearing trees were preferred.

The whole family went along to select the log, as this was thought to bring good luck for the coming year, and to frighten away any witches.

If the log burned out quickly, or did not burn brightly, it meant bad luck ahead.

On Christmas morning, the children of the household beat upon the log and called for gifts to come forth. They were scolded by their parents, sent outside and after a time, called in to open the gifts, which had been set near the log.

game is to repeat correctly, in order, the complete list of gifts in Santa's sleigh — and it's harder than it sounds.

As the list gets longer and longer, more and more players just can't seem to remember the whole list and its order, so consequently they drop out, until only one is left.

Holiday Greetings

Here's wishing you a bright and merry Christmas and a Yuletide season sparkling with good cheer.

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Joy and Peace

May your Christmas be blessed with the joy and peace of that Day, when the angels sang the glory of God whose Son lay sleeping in a manger.

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MERRY CHRISTMAS

Oh come let us adore Him... and recapture the joy that filled the hearts of those who knelt to worship on that first Christmas Day. With deep sincerity, we extend our greetings and wish each and every one a truly happy and holy Holiday. It is our fervent hope that the blessed peace of Bethlehem will be with you now and throughout all the days yet to come.



Now is the season of deep delight as dear ones gather to celebrate the Christmas Holiday. May yours be a merry one!

ROSES

Kings Mountain, N. C.

McGinnis Furniture Co.

MERRY CHRISTMAS

When the Holiday Season rolls 'round, it gives us real satisfaction to be able to say "Merry Christmas" and "Many Thanks" to all our friends. Hope your Day is a happy one!

SOUTHWELL FORD

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