

LIGHT AND NOT HEAT BRINGS EASTER LILY

Scientists Discover New Principle of Great Importance

LIGHT IS PLANT WIZARD Cold Can't Stop Summer If Days Are Only Long Enough

WASHINGTON, April 3.—Government agricultural experts have discovered that plant life seems to depend on light rather than temperature for nourishment and may be controlled by regulating the hours of light and darkness.

The principle is revolutionary, but rests on actual experiments in which it was demonstrated that plants subjected to alternate periods of light and darkness in carefully determined proportions could be

brought to maturity at any time of the year.

The discovery may be of the highest importance in the future planning of cropping systems for different regions. It is declared:

"Green house experiments," says the announcement by the department of agriculture, "prove that the flowering and fruiting period of practically any plant can be made to take place at any time of year darkening the greenhouse in the morning and evening if the day is too long, or by lengthening the day by artificial light if the day is too short.

Have Spring Flowers in Winter "Spring flowers and spring crops happen to be spring flowers and spring crops because the days at the season of their flowering and fruiting have the proper number of hours of daylight."

Eventually it may be found, according to W. W. Garner and H. A. Allard, scientists in the bureau of plant industry, who conducted exhaustive experiments, that the animal organism is capable of responding to the stimulus of certain day-lengths. They believe that the migration of birds may be an illustration on the ground that direct response to such stimulus would be more in line with the modern biological teachings than theories which assume that birds "go south" as a matter of instinct.

Experiments were conducted with a large variety of plants. It has shown conclusively that too little

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OREGON SCHOOLS GIVEN CREDIT BY ASSOCIATION

Recognition Comes From North Central Colleges and Universities

SALEM REPORT NOT IN Local Institution Among Those Having Time Extension of Thirty Days

From now on the graduates of any high schools in Oregon that are accredited by the Northwest association of secondary and high schools will be admitted without condition to any of the colleges and universities under the jurisdiction of the North Central association of colleges and secondary schools.

This is the word brought from the convention of the Inland Empire Teachers' association at Spokane by E. F. Carleton, Oregon assistant state superintendent of schools, who has been a member of the commission on accrediting since the organization of the association three years ago.

"Hereafter, the northwest association will be recognized by the North Central association of colleges and secondary schools," said Mr. Carleton. "This means that the graduate of any high school in Oregon accredited by the northwest association may be admitted without condition to any college or university under the jurisdiction of the North Central association. This association sent to Spokane last week, as its representative, Dr. A. A. Reed of the University of Nebraska, who attended all the sessions of the northwest association for the purpose of determining whether the standards of our association were sufficient to be recognized by the north central. Before leaving for Nebraska, Dr. Reed authorized Mr. Carleton to report that he could recommend affiliation of the two associations and that there was no doubt that the north central would act favorably upon his recommendation."

In addition to the Oregon schools already accredited, 10 others, including Salem, were given 30 days in which to complete their reports, and in other states a number of

"sleep" or in other words too many hours of daylight, would prevent many plants from ever reaching the flowering and fruiting stage.

Length of Day is All-important It was found also that plants would not reproduce except when exposed to a favorable length of day, although too much daylight for flowering and fruiting might stimulate profuse vegetable growth. A length of day favorable to reproduction and growth results in the "ever-bearing" type of fruits.

By employing dark chambers the scientists shortened or lengthened the life cycle of plants and caused some of them to complete two cycles in one season.

Temperatures appeared to exert no influence in the tests. A striking illustration of the relative unimportance of temperature was given in the fact that plants kept in the dark for a part of the day, underwent in mid-summer the changes that in nature come in the fall and that heretofore have been attributed to lower temperatures. This was true even when the dark houses registered a higher temperature than the outside atmosphere.

Temperature Has No Effect... Iris kept in artificial light for 18 hours bloomed in two months while others in the same temperature without artificial extension of the day required months longer.

"The length of day," the department's announcement said, "proved to be a most potent factor in determining the relative proportions between the vegetable and fruiting parts of many crop plants. Indeed, fruiting may be completely suppressed by a day too long or too short. This new principle undoubtedly explains the erratic behavior which has been observed with many crops when they are shifted to different latitudes."

The new principle was said to explain why many plants grow most luxuriantly near the northern limit of their range where the long day permits maximum vegetable growth before the short day intervenes to start reproduction.

PRACTICAL PROOF EXISTS WALLA WALLA, Wash., April 3.—Walla Walla greenhouse men for years have "forced" lettuce by regulating the growth by an elaborate electric lighting system. They mature four crops of lettuce in the same period ordinarily required for three crops.

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schools were given that period in which to report.

Oregon schools unqualifiedly accredited by the association this year are as follows: Newberg, The Dalles, La Grande, Grants Pass, Marshfield, Ashland, Corvallis, Eugene, Baker, Bend, McMinnville, Klamath county high school, Jefferson high school, Portland.

High schools unqualifiedly accredited from the other northwest states are as follows:

Montana—Sweet Grass county high school, Billings, Butte, Gallatin county high school, Teton county high school, Jefferson county high school, Beaverhead county high school, Chouteau county high school, Glasgow, Great Falls, Hamilton, Havre, Helena, Missoula county high school, county high school, Roundup, Broadwater county high school, Sidney, Wibaux county high school. Washington—Cheney, Pullman, Whitcomb (Bellingham high school), Pomeroy, Edmonds, Walla Walla, Hoquiam, Stadium (Tacoma), Everett, Broadway (Seattle), Wenatchee, Olympia. Idaho—Boise, Lewiston, Nampa, Wallace, Wardner Kellogg, Idaho Falls, Bonner's Ferry, Twin Falls, Caldwell, Buhl, Blackfoot, Gooding, American Falls.

ley and Mrs. A. A. Reed visited Mr. and Mrs. Willard Moore at Hopewell Saturday.

Lloyd Davenport and family have moved to their ranch on the Abiqua after living at Crooked Finger the past winter.

Allan Bellinger was a Silverton visitor Tuesday.

John Brougher who is attending Willamette university is spending the week-end visiting his parents.

Willamette Students to Give Lecture Recital

Ralph I. Thomas will give a lecture recital Tuesday evening April 13 in the First Methodist church, under the auspices of the public speaking department of Willamette university. He will be assisted by Miss Mary Notson who will give several selections of a dramatic nature as

well as taking part with Mr. Thomas in a short play.

The first part of the recital will be in the form of a lecture but will consist mostly of dramatic numbers. Admission to the recital will be free.

Mr. Thomas and Miss Notson are being coached by Orville Crowder Miller and Prof. Della Crowder Miller. Both students are members of the junior class and have majored in the public speaking department.

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Mike Landwig Dies at Home Near Scotts Mills

SCOTTS MILLS, Or., April 3.—Mike Landwig who has been a resident of Oregon for the past 12 years, died March 25 at his home three miles above Scotts Mills. He was 69 years old.

Mr. Landwig was born in Switzerland March 12, 1851 where he lived until 1881. In December, 1876, he was married to Catherine Leuthart in Switzerland. In 1881 he came to this country, going to Illinois, then to Wisconsin. Coming to Oregon in 1908 he lived in Marion county until his death.

Besides his widow, Mr. Landwig is survived by six children, Mrs. Lizzie Emery, Butternut, Wis.; Mrs. Mary Newell, Canada; Mrs. Alvina Sasto, Seattle; Henry Landwig, Silverton; Mike Landwig and Herman Landwig, Scotts Mills. He also leaves 12 grandchildren.

The funeral was held March 27 from the Catholic church at Crooked Finger. Burial was in the Catholic cemetery.

Mr. and Mrs. Gill Giger and family visited relatives at Battleground, Wash., last week.

Mrs. E. R. Lawrence and sons, Richard, Daniel and Willie, were Salem visitors Saturday.

Mrs. P. N. Smith of Mt. Angel attended the funeral of Mike Landwig Saturday.

Mrs. W. T. Hoag and daughters, Lorraine and Davis, visited relatives in Salem Saturday.

Mrs. W. O. Royce and son, Deryl, were Silverton visitors Thursday. J. S. Kork and W. T. Hogg were visitors in Salem Tuesday. Miss Emma Larson visited her parents at Silverton Saturday. George Haynes was in Silverton Thursday. Mrs. C. A. Dunagan and son, Silt-

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