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**Radio Has Brought Classroom to All Farmers Within Its Range**

WASHINGTON (AP)—Can you think of a school class-room stretching from the Atlantic to the Pacific coast and from the Gulf of Mexico to the Canadian border?

Radio has made one for American farmers and housekeepers. The teacher is Uncle Sam, through the immense resources he has gathered here to help simplify farming and housekeeping problems.

Through the radio Uncle Sam hopes to instruct pupils in millions of homes, and on farms especially. He does this through the Department of Agriculture. Lessons have already started to go out to nearly 30 radio stations, touching every state.

Lessons for one day, for example, deal with livestock, game bird propagation, apple scald and better sugar cane varieties. The next day's lessons are devoted to crops and soils, ending the laying flock and wash day wisdom. Farm economics leads the next list with information on poultry, frocks for school days and flying weather forecasts following. Then come lessons on jellies, fruit, vegetables, flowers and the home garden. Others suggest how to fix the school lunch box for youngsters or tell how to feed dairy cows.

These lessons are gathered in the department of agriculture by experts in the various divisions and are put into interesting form for the radio by Solon R. Barber, Charles A. Herndon, and Miss Josephine Hemphill. Mr. Barber arranges the "Noon Farm Flashes," "Hints by the Weather Man," "Insect and Wild Animal Allies and Enemies," and the "Primer for Farm Farmers." Mr. Herndon arranges the dialogue school lessons, "Poultry Chats," the "Young Folks' Program," and the "Farm News Digest." Miss Hemphill has charge of the housekeepers' chats. All cooperate in the farm playlets, which are given early each month.

**Hydro-Airplane Lands for Repairs**

BERLIN, Oct. 13 (AP)—The Heinkel hydro-airplane D-122, which left Brunswick this morning for Amsterdam en route to the United States by way of the Azores, landed at Wilhelmshaven for further repairs.

(Wilhelmshaven is about 60 miles west of Brunsbuttel). Advice from Warneumunde, the original starting point of the D-122 said that it was likely that Horst Merz would land at some point along the German north sea coast before proceeding to Amsterdam in case his plane should require further overhauling as a result of a defect in the radiator which caused the descent of the plane at Brunsbuttel yesterday.

The Heinkel works said that Merz planned a thorough test of the repairs which had been made before attempting any long hops.

The fairy humming bird of Cuba, two and one-fourth inches long, is the smallest bird in the world.

**American Trade In Caribbean and Gulf Increasing**

WASHINGTON, Oct. 13—A great increase in American trade with the countries of the Gulf of Mexico and the Caribbean sea, possibly reaching a billion dollars or more within a relatively few years is seen by Dr. Julius Klein, director, United States bureau of foreign and domestic commerce, department of commerce.

Speaking before the Foreign Trade conference in New Orleans, Dr. Klein pointed out that last year the 42,000,000 inhabitants of this region purchased United States products valued at \$692,000,000 or nearly 13 per cent of the total exports, compared with an annual average of \$225,000,000 or about nine per cent of total exports during the five-year period 1919-14.

With proper attention, in Klein's opinion, America's total sales can be gradually lifted into the billion dollar column; with intensive effort and careful cultivation over a longer period it is not at all beyond the realm of possibility that the sales in many parts of this area may approximate the present \$60 per capita level of exports to Porto Rico.

Improved standards of living, more stable political conditions, and further development of hitherto unexploited raw materials are all factors which point to greatly strengthened per capita buying power in these markets, to more business for the United States and without necessarily destroying or preventing European trade improvement in that section.

**REJECTS BULGARIAN VIENNA**

VIENNA—Having rejected possibilities of becoming queen of Bulgaria, Princess Irene, 23-year-old sister of former King George of Greece, is to marry Prince Christian Schaumburg-Lippe of Denmark. Once reported engaged to King Boris, she said she would never marry into a Balkan royal family because Carol of Rumania deserted her sister.

**The Garden**

**CROWN IMPERIALS STAY FRESH**

Crown Imperials are the tallest and stateliest early-blooming plants in the garden. Botanically known as *Fritillaria imperialis*, they are an old-fashioned plant seldom seen, but deserving of wide planting because of their unusual style of growth and handsome appearance. Bearing a stout stem to a height of two to three feet, crowned with a tuft of lily-like leaves, beneath this crown hangs a circle of large bells in red and orange colors.

Groups of this bulb towards the back of the border give a fine effect. The bulbs are curious in that they have an open center, a hole which sometimes leads those unfamiliar with the plant to believe it worthless. The hole also has a strong smell if bruised or broken. A mistake which causes many failures with this bulb is too deep planting. Two inches of soil above the bulb is enough. Planted six inches deep, as is usual with bulbs of its size, no blooms are likely and the plant will wither and disappear.

As unusual in their way as their relative, the Crown Imperial, are the smaller and daintier ginepina flowers or checkered lillies, *Fritillaria meleagris*, with strange fringed nodding heads from slender grassy foliage about a foot high, marked like a checker board in dull purple, sometimes light and dark purple checks, sometimes cream and purple. A pure white form is unusually fine.

They, too, have unusual bulbs, being two-parted with a narrow link at the base of the bulb. They, too, should not be planted too deeply, two inches being sufficient. They are best in shady corners where they will domesticate themselves and make interesting groups, increasing in beauty from year to year. From California a number of other fritillarias are coming into gardens in scarlets and yellows, but they are not of the easy culture of these two old-timers. The checkered lily is a native of England.

A bed of Crown Imperials makes an imposing display. The foliage turns yellow and dies down early so that the bed may be used for annuals by mid-May. The checkered lilies make interesting pot plants and never fail to arouse admiration. They should be treated in the same manner as hyacinths.

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**OUT OUR WAY**



**HEALTH**

**HARDENING ARTERIES COMMON DISEASE**

By L. Winfield Kohn, M. D., New York City  
Member Gorgas Memorial

Arteriosclerosis, or hardening of the arteries, is a common occurrence and has become a source of worry and concern to many individuals.

This condition is in reality a constitutional disease which manifests itself by local changes within the walls of the various arteries. These changes result from degeneration of the tissue itself and in consequence the walls become tough and fibrous in some instances and lime-like or calcified in others. At times both of these types of transformation may appear in the arteries of the same individual and as a result the vessels will have changed in caliber and length.

Many views have been expressed regarding the causes of arteriosclerosis but only few logical proofs are at hand. One factor that seems to play a certain and rather prominent role is that of heredity. It has been found that infants at times have arterial disease, and it is also believed that a certain number of people begin life with arteries that are potentially diseased or liable to an early degeneration. Certain diseases in the parents may contribute to the development of this condition within the children. A disease likely to have such a bearing upon the offspring is syphilis.

Severe or prolonged forms of infection or infectious diseases are believed to have some part in the induction of degenerative changes within the walls of the arteries. Sir Althout, a great British physician, believed that certain toxic or narcotic being given time to form roots in a dark, cool place before being brought to light and heat. They do not want too warm a room as the bulbs bright under these conditions.

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substance, probably the result of incomplete intestinal digestion, were absorbed into the blood and so affected the nervous system which controlled the vessels of the peripheral portion of the circulatory system as to bring about a contraction of the caliber of the smaller branches. With a contraction in these portions of the arterial system there naturally results a slowing or poor circulation unless some compensatory mechanism is brought into play. This compensatory effort is supplied by the heart and larger blood vessels. The heart will beat more powerfully and the vessels will stretch out more compensatingly. In consequence, these vessels will sooner or later evidence injury in the form of disease within their walls.

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locality will develop. In the manner if the process is in the abdominal vessels, certain abdominal type signs may assert themselves. If the arteries of a vital organ, such as the heart, lungs, kidneys, and liver are prominently involved, certain pronounced or dangerous symptoms may arise. Where the vessels within the eyes are affected blindness may follow as a result.

The symptoms in the main, however, are regarded as due to a disordered supply of blood to the body tissues. Some of the symptoms are dizziness, ringing in the ears, numbness and tingling of the hands and feet, wormlike sensations in the skin, mental irritability and failure in mental application. In many of the cases, high blood pressure may be, though not necessarily, a prominent occurrence. Hardening of the arteries may not as a condition, in itself, produce symptoms. Many individuals having this affection do not complain, but if such persons should acquire another disease process the prospects of complete recovery is most unfavorable. Those who are aware of the existence of arterial hardening and who in consequence practice precaution regarding their activities and indulgences will unquestionably prolong their existence and ward off invalidism.

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