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**Columbia River Power Unit Shows Increase in Revenue**  
 Operating revenues from the Columbia river power system, consisting of the Bonneville power administration and power components of the Bonneville dam project and the Columbia basin project (Grand Coulee dam) during the first half totaled \$21,600,623. This was \$2,060,564 more than the same period last year.

Total revenues since the beginning of power sales in 1939 reached \$1,202,484 by the end of fiscal 1947. The surplus, after deduction of all charges for operation, maintenance, depreciation and interest amounted to \$22,843,141 of which 70% or \$16,198,199 was paid during fiscal 1947.

By the end of continuing fund which the administrator may use to defray emergency expenses and insure continuous operation of all receipts from operating revenues were returned to the U. S. treasury.

With exception of this fund, the administrator is not permitted to use its revenues for operations, maintenance or construction and must deposit annual appropriations from congress for money for those purposes.

Fiscal 1947 revenues were somewhat higher than had been expected a year ago. The higher return was accounted for by increases in power use by the aluminum industry and by sales to public and privately owned utilities. Estimated total effect reductions in revenue from shipment of military supplies. The latter had been operating on a contract basis for several previous years, but were by the end of fiscal 1947, for the most part, closed down.

### Ginger, Spice of Antiquity, Still Leads in Popularity

China's ginger, from which the first ginger was made some centuries ago, again is coming to the United States from Hong Kong.

Ginger is one of the "big five" and normally the most expensive of the trade volume of the 25 commodities listed by the United States Geographic society. Its use dates back to early Greek and Roman times. Made into various forms of animal or letters of the alphabet, gingerbread was delighting the children of England at Christmas time as early as the 13th century. Other figures were gilded.

Henry VII of England included ginger in his coronation gifts to the Lord Mayor of London, as a remedy against the plagues then ravaging the city.

Ginger was imported into France and Germany perhaps as early as the 8th century. English tarsen inventors kept perforated containers of it so that customers could apply ginger on their skin and posture.

In the United States, the spice has been particularly popular in New England where, among other uses, ginger sauce sometimes is served on ice cream.

The ginger of commerce comes from the underground rootlike stem of the plant which grows to a height of two or three feet in the rich, well-watered soil of tropical countries. It yields 100 to 200 pounds of the dried spice to the acre in one year.

**Sorting Out Feathers**  
 Chicken feathers not only are being used for padding pillows, but also are being spun into newly developed synthetic fibers. A method has been devised for sorting chicken feathers so that they may be graded for different uses. Working on the theory that the fluffier a feather, the higher it will rise in a current of air, the feathers are chopped and placed in a vertical tunnel up which they are blown. The feathers are being separated into grades by the weight of their quills and the amount of fluff. The controlling of the resistance and the upward speed of the blast of air makes it possible to separate a mixed lot of feathers into six grades. The graded feathers can be blended to any extent now by mixing the various grades.

**New Enriched Margarine**  
 A cheaper and more dependable method of enriching margarine with vitamin A was reported to American Chemical society. Until now, deterioration of vitamin A in margarine during storage has been so rapid that manufacturers have had to add a 20 per cent surplus of the vitamin to insure unexpired losses. Margarine fortified by the new method contains 100 per cent of vitamin A content much longer, so that manufacturers can afford to add a substantial initial amount of the vitamin overdose. Vitamin A retention was studied by photometric and biological assay methods in a series of tests and similar results were observed.

**An Empty Tomb**  
 Washington, D. C. has not only its "Tomb of the Unknown Soldier," but also its "Empty Tomb." The original design for the capital provided for a tomb for the first president in the sub-basement where he would lie with his wife in a marble sarcophagus. A member of the Washington family objected to removing Washington's body from Mount Vernon, and the Virginia general assembly also protested. So the tomb remains empty, the space being used for the office of the architect who noted from lie in state in the rotunda of the capital. Lincoln was the last to be honored.

### Notes From The County Agent's Office

**By C. B. CANNON, County Agent**  
**Father and Son Partnership in Dairying**

In the operation of a successful commercial dairy by T. W. Brown and son, D. Eugene, Bruce Z. Lane, associate home-grown breeders, the livestock in an important phase of an organization and management. In this connection, the Browns had approximately 17 acres of land, 100 cows, a mixture and 18 acres of lactating cows for grazing purposes in the spring.

By letting the dairy cattle have their own feed, considerable labor is saved, says Eugene. We like this system of producing feed because it eliminates the "no-work" idea.

In the operation and management of the farm a division of labor with respect to the disease and experience of the father and son is carried out to the connective. Mr. Brown looks after the overall farming operations, including such things as building and maintaining permanent pastures, the production of feed crops, annual grazing for fall and winter, etc. Eugene is responsible for the care of dairy cattle as well as the handling and selling of milk. The milk is sold on a grade A milk on a wholesale basis to a dairy in Sparta, Wis.

The present plan has been in operation for five years. Under this program the sons have been equipped and in addition, improvements have been made on farm buildings, including new machinery has been added.

"The arrangement is working out very well. It has helped to make dairy improvements and to bring the efficient low cost production which will enable us to continue in dairying through the years to come."

**Artificial breeding program is carried out on this farm through the Laurens Cooperative Breeding association, thereby using the best blood of the county. In fact, artificial breeding has been practiced on their farm two years before the Laurens association was organized on this the son, Eugene, took a short course at Clemson in artificial breeding.**

Young Brown is president of the Laurens Cooperative Breeding association and is wide awake in these days when the new machinery has been added to the local community silars.

On the Brown's farm in a dairy case permanent pasture (artificially planted) located near the country club on the Lawrence-Clinton highway. The demonstration has had at the rate of 400 lbs. of spaced, high-quality, 200 lbs. of marinate of

400 and 200 lbs. of nitrogen per acre. The use of the rate of 100 lbs. per acre was applied in 1947 and some amount applied in 1948. In covering cattle grazing in the pasture it is noted they prefer to graze in the treated area over the untreated area.

**Noted Speakers on Farmers Week Program**

The assembly held Tuesday, August 12, address by Dr. R. F. Pugh, president, Clemson college; Top Rogers and His Land Grant College; For Wednesday, August 23, Assembly, East, North Day, address by W. A. Mendenhall, State soil conservation director; Thursday, August 24, 25 assembly, address by J. B. Kline, Kansas National Farm Bureau Federation; "Organized Agriculture Looks Ahead," The 1st day, August 27, Mrs. Raymond Speer, President, Associated Country Women of the World; "Warpage A Sin Is It."

Clemson farm tours, sites of interest, an campus and demonstration each afternoon. Subjects in agriculture, engineering, education, economics and sociology, agricultural, animal husbandry, mechanics, acts as "demonstration" buildings, farm machinery, and industry will be discussed at certain periods and in some cases, demonstrations will be given. The various subjects and instructions may attend the discussion, subject to space.

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