

Dairy and Stock Farms Made More Profitable by Developing Side Lines

FARM SIDE LINES ARE PROFITABLE TO FARM MANAGER

By R. C. Stewart

At first thought it would seem that there were very few by-products of the stock farm or dairy ranch. But there are really several side lines that can be carried on at but little expense and time that will bring in considerable extra profit.

Swine go well in combination with stock. Kept on a ranch devoted to the raising of beef, where considerable stock is being fattened most of the time, a few shoats will pick up the biggest part of their living from the scraps and waste feeds. When the stock is being heavily fed on ensilage made from well matured corn, many find that a bunch of hogs, allowed to run with the cattle will pick up most of their living by following the stock. It is not best to allow the hogs on the same pastures with the cattle, but on the ordinary ranch there is most always some available extra pastures to keep the growing hog on.

On the dairy farm, the value of keeping hogs depends on how much extra milk is available. Where the calves are being raised for the future dairy herd they should get all the milk they will take. When the milk is not needed for the calves perhaps the biggest possible returns can be secured for it by feeding it to a herd of young swine.

There is some grain raised on almost all of the stock or dairy farms. Porkers raised on the scraps and extra milk during the winter, spring and early summer will fatten nicely on what they can pick up in the stubble fields before it is again time to plow the soil. Since this is about the only way to save the otherwise waste fall grain, the money received for the fattened hogs is nearly all profit. Hogs fit into nearly every kind of crop rotation, doing well on either the waste from grain crops or legumes.

It has been said that poultry and dairy cows make an ideal combination. Chickens grow faster and lay better if they are getting skim milk. If they will not take enough of the milk in the liquid form, it can be curdled and fed to them in much larger quantities. Whether the poultry flock is kept in connection with beef or dairy stock, it should be remembered that chickens will eat after the cow, but that the cow is adverse to eating after the chickens. In fattening the cattle, the chickens should be kept out of the mangers and off of the feeds.

Chickens and turkeys can range with stock without injury to the pasture. They eat but little grass in proportion to the grass-eating insects and bugs they destroy. The turkeys are especially valuable for catching grasshoppers and crickets, and for cleaning up the habits. One means of controlling the grasshoppers is to keep the chickens in small colony places and move them about from place to place as they clear the different sections of the past.

By no means is the manure the least of the by-products on the stock farm. It will, if saved and returned to the soil each year, insure increased returns for several years. Improving the soil, it makes possible the growing of larger crops and in turn the keeping of more cattle.

Fitting into the stock raising game, crop rotation and next in value to manure as a soil improver is the legume. It makes good pasture, fine hay, and can be used for summer ensilage.

Finding and utilizing every possible by-product and extra source of income is often necessary to put farming on a paying basis.

Hall's Shorthorns Bring Good Prices At Ridgefield Sale

Ridgefield, Wash., June 19.—According to the auctioneers who handled the sale of N. C. Hall's pure-blooded Shorthorn herd, it was one of the best in the country and some good prices were paid. Hall has been working for years building up a fine pure-blooded herd and expects to make his sales annual affairs. Many were here from Oregon and Idaho. Following are some of the prices paid: Fourteen cows brought \$1550, an average of \$223.43; eight bulls brought \$1825, an average of \$228; one heifer-calf \$190; the lowest bull calf was \$125, and the highest \$625; the lowest cow brought \$200, the highest \$625. The average for the entire herd was \$285.

Spitzenberg Apples Netted \$1.87 a Box

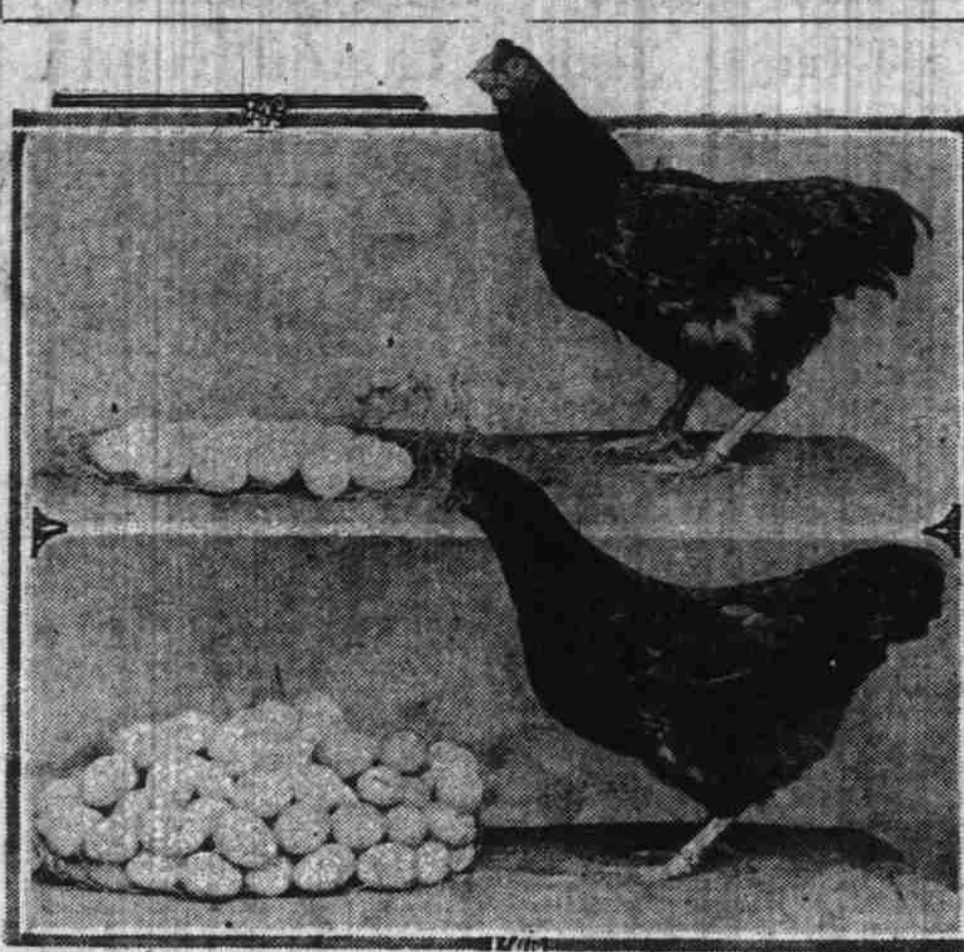
The Apple Growers' association at Hood River has closed pools and made final returns on the crop of Spitzenberg apples handled for its members on last year's crop. The variety averaged \$1.87 net to the association for all three grades. The net to growers is obtained by deducting 28 cents per box. The total returns to the association reached \$749,700.

Pools have not been closed on the Newtown crop, the cleanup of which has been better than had been anticipated, and the total receipts for this variety will exceed \$1,000,000.

Everything for the Poultry Keeper, Gardener and Orchardist

168-Page Catalogue Tells All—Free
168-167 SECOND ST.
INCUBATORS AND BROODERS
POULTRY SUPPLIES AND FOODS
OF ALL KINDS
PORTLAND, OREGON
USE YOUR CREDIT
THIRD & VANHALL

ALERT HEN IS PRODUCER



To get the best results, select a good laying strain, cull out the sluggish and feed for egg production. The alert, wide-awake hen is the best layer.

POULTRY NOTES

JUST the fowls with sodium fluoride to get rid of lice. For hens with young chickens it is particularly important that the dusting be done early in the morning in bright day. If it is done later in the day or in bad weather the chicks, while muzzling under the hen, are likely to get enough of the powder to injure them severely. If the dusting is done during the morning in fair weather the hen will not hover the chicks enough to get them any of the injurious quality of the powder has been largely dispensed.

Dipping fowls in a soap solution made by dissolving one ounce of laundry soap in a gallon of water will destroy all chicken lice, but a second dipping 10 days later is necessary in order to destroy the lice that have hatched from eggs which are not killed by the treatment.

Fowls for breeding purposes should be strong, healthy, vigorous birds. The comb, face and wattles should be of a bright red color, eyes bright and fairly prominent, head comparatively broad and short and not long or crow shaped, legs straight and straight, plumage clean and smooth.

Do not neglect shade for the chicks from this time on. They suffer greatly from exposure to the hot sun and cannot possibly make their best growth and development without an abundance of shade. Provide artificial shade if there are no trees, growing-crops of weeds.

Many poultry keepers begin culling in June, regularly looking over their flocks for idle hens whenever the average egg yield drops noticeably below 50 per cent. It is not a difficult matter to pick out the birds which have stopped laying at this time and if proper tests show that they are naturally inferior producers it is economy to get rid of them at once.

5000 Gallon Cream Tank Installed in Winlock Creamery

Winlock, Wash., June 19.—The Winlock Cooperative creamery has installed a 5000-gallon cream tank in the butter room. This is to take care of their ever-increasing business.

Under the new arrangement all cream handled at the creamery will be pasteurized, thus insuring the highest quality product.

May was the banner month for pounds of butter made since the creamery started, when 30,700 pounds was turned out. The nearest approach to these figures occurred last June a year ago, when the output reached a total of 26,000 pounds.

Complete Plans for Nurserymen's Meet

Spokane, Wash., June 19.—Plans for the eighteenth annual convention of the Pacific Coast Association of Nurserymen, to be held here June 29 to July 2, have practically been completed by Mrs. Ruth Day, president of the association, for the entertainment of guests from British Columbia, the coast and as far east as New Jersey. The convention will be the first meeting of Pacific coast nurserymen ever held in Spokane.

When answering advertisements mention The Journal.

Rugs and Linoleums

Matting and Fiber Rugs
9x12 Matting Rugs, \$9.95
very special
Imported Japanese Reversible Grass Rugs in eight different patterns. 9x12 size. Regular \$18.00 value, \$12.95
CARPETS
Tapestry Brussels Hall and Stair Carpets at \$1.19, \$1.35, \$1.50 and \$1.75
Axminster Carpets with or without border.
Plain Velvet and Wilton Carpets with or without border. \$5.00 and 90¢

Inlaid and Printed Linoleums

We have for your selection an exceptionally large stock of Inlaid and Printed Linoleums. The Inlaid Linoleums come in the popular blue and white check, tiles, granites, floral, brown and plain colors at \$1.95, \$2.10, \$2.35, \$2.50 and up.
Printed Linoleums as low as \$1.25 to \$1.50. Three patterns in the Printed Linoleums, 12-foot width.

CAREFUL METHODS OF FEEDING MAKE HENS PRODUCTIVE

By C. S. Brewster

The preceding article in this series, which appeared recently, described the nature and value of the various feeds used for poultry feeding. The next question of importance is with regard to the methods to be pursued in making use of these various feeding stuffs.

The methods used in feeding are quite as important as the feeds that are used. The most carefully selected rations will fail to give results if not properly used. For instance, if a whole day's ration be put before the hens in the early morning they may eat all they can, then hang up in a corner all day, lastly putting on fat and inviting liver trouble and gout, and forget all about laying, while the hens stand door with the same ration, properly fed, may be singing and working all day long, happy because they are healthy, and ready to pay for their board with big fresh eggs each day.

CONDITIONS MAY DIFFER
There is no single ration which, under all conditions, will give the best results; neither is there probably any one method of feeding which will always prove most satisfactory. The poultry raiser, therefore, is one who, knowing the needs of the hen or chicks, and being acquainted with the general practice in feeding, is able by the use of common sense and good judgment, to adjust these ideas and methods to meet his own individual conditions.

The actual methods to be used will depend upon a number of factors, namely: The breed, the condition of the individual flock, the weather conditions, the yarding system, the feeding and housing equipment, the age and health of the fowls, the stage molt, rate of egg production, the purpose for which they are being fed, the date of hatching, etc. Considering all these modifying elements, it is not surprising to note that the same individual method may give entirely different results in different cases.

REGULAR VARIETY
In the past there have been practically as many poultry rations as there have been poultrymen, and there have been continually shifted from one ration to another whenever they hear of some new ration which is giving good results. The people using these rations may be getting good results, but he who continually changes will always be in trouble. Shifting from one formula to another may be valuable experience for the feeder but it will never result in increased profits.

The hen is a creature of habit. She must have her accustomed food at regular intervals, in the usual place and with the usual exercise if the habit of producing eggs is to be cultivated. Any sudden change in feed, time of feeding or management, moving into a strange coop, being shut outdoors overnight, sudden extreme changes in temperature, rough handling or fright will cause a temporary break in the egg production. Give the hen variety in the feed ration, but give her this variety with regularity.

Prune Festival to Be Record Breaker
The second annual prune harvest festival, which will be held at Vancouver, Wash., September 16, 17 and 18, will be conducted on a larger scale this year than formerly. Four thousand dollars has already been raised by the committee to defray the expense of the festival.

HOLSTEIN BREEDERS MEET



About 100 took part in a meeting of the Multnomah and Washington county Holstein breeders at the farm home of H. Martin, near Forest Grove. Reading from left to right—H. McCall, an Eastern Oregon breeder; S. B. Hall, Multnomah county agent; E. B. Pitts, dairy extension service; Miss Ethel Calkins, home demonstration agent; W. Martin and Frank Connel.

Large Siphon Ready For Yakima Indian Reservation Project

Yakima, June 19.—What is thought to be the largest siphon in the Yakima valley has just been completed in the Wapato project that waters the Yakima Indian reservation. The siphon is two miles long and 48 inches in diameter. It will carry water to irrigate 3000 acres of land on the "island," an elevated tract in the center of the reservation. The distributive system will not be complete this year, but the larger part of the area will be cropped in 1921.

The Ideal Gift—FOR GRADUATION OR WEDDING IS TO BE FOUND AT STAPLES

The gift from the Jeweler's is doubly pleasing because it is more highly appreciated and more lasting.

Our selection of diamonds, silverware, pearls, watches, wrist watches, jewelry, pens, pencils, etc., make it easy to secure your gift at a moderate cost or at a higher price if you prefer.

LET US FIT YOUR EYES TO GLASSES WHEN IN PORTLAND

STAPLES — The Jeweler-Optician

286 MORRISON ST., Between 3rd and 4th

FARMERS' PRODUCE Ship Your WOOL

Hogs, Veal, Poultry, Eggs, Hides, Casaca Bark and Other Produce to the Farmers' Union Company
We Are Operated, Owned and Controlled by FARMERS
Tri-State Terminal Co.
Fourth and Couch Sts. Portland, Or.

HOW TO PROTECT FROM FLIES TOLD

The importance of taking steps to prevent the breeding of stable flies rather than depending on protection of the stock, when the flies are full-grown, can not be emphasized too much. However, where this is not done the farmer is forced to resort to various means of warding off the flies.

Work animals may be protected largely from the pest by means of coverings. One type of covering which has been found to be very effective and inexpensive consists of a blanket made of double thickness of burlap, so arranged as to cover completely the back, sides, and neck of the animal. The legs also are covered sometimes by means of old trousers slipped over the feet and tied over the back. Leather pads or straps of leather attached to the body also aid in keeping the flies from the head. The ordinary fly net has been found to be of little value, as it only tends to displace the flies temporarily and cause them to settle in places not covered by the net. Completely darkened stables offer much protection from fly flies, although the resulting lack of ventilation is objectionable. The thorough screening of all windows and doors is much more desirable. When screened barns are used, care should be taken to brush the flies from the animals, when they are about the animal.

KODAK FILMS DEVELOPED FREE

WOODWARD, CLARKE & CO.
323 BILSON STREET PORTLAND, OREGON

CREAM

Correct Weights and Tests. Each Quart. Ship on your POULTRY and EGGS. Write for Case and Shipping Tags. EWING & CO. PORTLAND, OREGON



No exposed gears; simple in design; strong and sturdy; well made; handsomely finished.

THE TRACTOR YOU HAVE WAITED FOR YOU WANT

P. E. ESBSHADE
380-384 EAST MORRISON ST.
Agricultural Implements and Studebaker Vehicles
Write for Prices and Catalogs

A CHURCH UP-TO-DATE

In Accord With the Spirit of the Times
By Dr. JAMES E. TALMAGE

Of the Council of the Twelve, Church of Jesus Christ of Latter-day Saints, Salt Lake City, Utah
Note: For free copies of other articles of this series, send request to the author.

"We believe all that God has revealed, all that He does now reveal, and we believe that He will yet reveal many great and important things pertaining to the Kingdom of God." (Articles of Faith.)

We live in an epoch of unusual activity, both of thought and deed, an age of unprecedented achievement in material things, an era of unbounded promise. The fever of effort burns in the blood and brain of the man. The discoveries and inventions of a year surpass the record of centuries bygone. So many, so momentous are the new developments of this day that we live in our expectation of other and greater things. Incredibly as it may seem, it is our expectation of fashion. Every fresh discovery or application to service is another find in the rich mine of truth, and continuous revelation is a feature of the age.

What would be thought of the astronomer who would dare affirm that man already knows all that may be learned of the heights and depths of space—that we may not, must not, expect or hope to learn of satellites, planets or suns heretofore unknown? What of the geologist who would say that the story pages of the earth's crust have been fully read, and that no new record is to be found, no further truths to be made plain? What of the chemist who shuts the laboratory because, forsooth, he thinks that new discoveries are impossible, and the best he did do in to follow the lore of ancient books? Such men, for such declarations, would be deservedly scorned.

But note this startling exception, and the awful inconsistency of it all. It has been long taught that nothing new can come direct from the heavens to mankind; that Divine revelation belongs to the past! Dura we thus teach? In so doing are we not blasphemously assuming to seal the lips of the Eternal One, to ignore the hand of God as a factor in current events, and in our barrier the Supreme Ruler?

In the civilized world respecting real theism, which embraces faith in a living, loving, intelligent and omnipotent God, and revering to pagan deism—that misty, malformed conception of a deity bound and trammelled by man-prescribed limitations.

A church that lives not, grows not, develops not; in short, a church that is dead, has no attractions for me. I profess no allegiance to a creed that is always primarily of present application, to a faith that cannot accept the doctrine that offers no living water for the spirit athirst, that has no bread of life for the hungry.

My Church must be up-to-date, its religion vital and progressive. That Church must be in direct communication with headquarters—the source of unending wisdom. It must give me the latest news from day to day, the vital of the ever-unfolding purposes of God, information as to the events of time, assurances as to the possibilities and certainties of eternity.

I accept the promise of a new day for just days for just purposes to be. It is indispensable to the world's advancement. Without the Holy Bible and other Sacred Scriptures the human race would be in a deplorable state. But living prophecy, current-day revelation, are likewise essential. One is the letter, the other the spirit that giveth life.

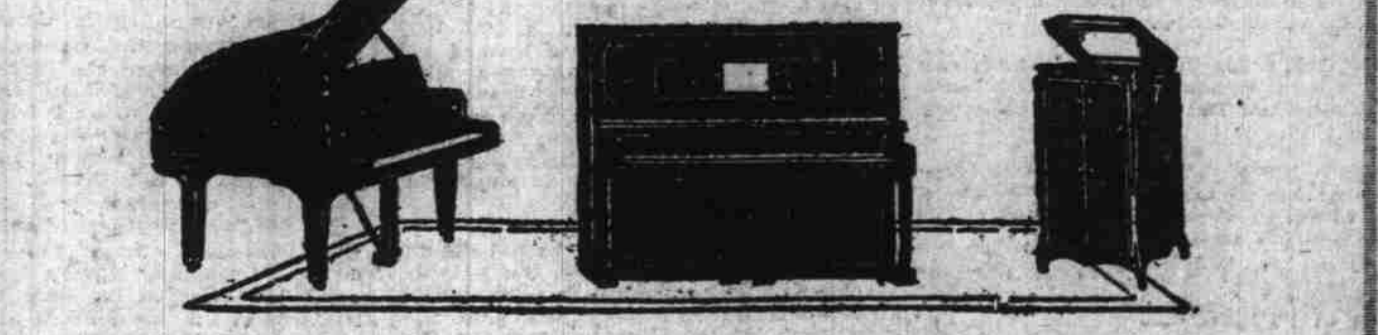
In the Church of Jesus Christ of Latter-day Saints alone do I find the verve of blessing, were they false; but I bear record unto all who read that they are true. I have seen the Church of living children, I witness the vital of that speak of eternal duration; herein I find an ever-growing record of revealed truth—new Scriptures that are their own justification, and which while primarily of present application, serve to explain and glorify the past. Write of other days, I discover no inconsistency, far less contradiction, between latter-day Scriptures and the inspired records of older times. Their agreement is such as to inspire a common faith.

Is this up-to-date religion really new? Only in the sense of having been reestablished among men, with authority and power restored; new only as each recurring dawn is the Church of new day, though the light of that day is the light of the same sun that shone before. Every day is both old and new, each the sum of the yesterdays that have gone, and the assuring promise of all the tomorrows yet unborn.

The Church of Jesus Christ of Latter-day Saints will ever be up-to-date, its activities will ever be new, its mission will ever be new. It possesses the essential features of perfection—the life principle that insured advancement. It lives and operates under the direction of The Christ, whose name it bears.

For price list of Book of Mormon and other publications, including "The Vitality of Mormonism," which reveals the true nature of the religion, apply to North-western States Mission, 516 East Madison street, Portland, Or.

Trade Us That Musical Instrument You Don't Use for One You Will Use



Perhaps you own an upright piano which you can't play. Trade it to us for a new PLAYER PIANO that you CAN play.

Perhaps you own a grand piano but have moved into an apartment too small for it. Trade it to us for a beautiful Bush & Lane Upright or a Player Piano.

Perhaps you own a Victrola, when the children ought to be starting their piano lessons. Your Victrola will go a long way towards buying a mellow-toned new Upright or Grand Piano.

This is Music's Headquarters, an institution devoted alike to the selling of standard Planos and Victrolas and to the advancement of music in every home. Let us help you to put into a home that can use it the Piano or Victrola you don't use. Let us help you to obtain just the Piano, Player-Piano, Grand Piano or Victrola you wish you had and would use if you did have it. Act NOW. Investigate our most favorable exchange proposition or use the coupon below.

Bush & Lane Piano Co.

BROADWAY AT ALDER BUSH & LANE BUILDING
Manufacturers of the Famous Cecilian, the Perfect Player-Piano

If you cannot call, write for full particulars.
Don't forget, this store is Record headquarters.

Bush & Lane Piano Co., Portland
Please send catalog, descriptions and terms of payments. I am interested particularly in a
 Upright Grand Piano
 Victrola Player-Piano
Name
Address