

WHEY AND WHEY.

One Kind Fattens Pigs and Calves, the Other Is Worthless.

A year or so ago, when dressed pork was bringing four dollars and five dollars per hundredweight, dairymen pork raisers here said that it was beneath the cost of production. If that is the case the six dollars and seven dollars now paid can leave only a narrow margin of profit. Not long ago I visited a dairy farmer in the next town south of me, and found him standing on a barrel to bind his shocks of tall corn. Passing his hog yard, I noticed some very large, fat porkers stretched on the sward.

"What are you fattening these hogs with?" I inquired.

"I give them nothing but whey from the factory," was the reply, "but they have plenty of it,"

This would have been a revelation to some farmers, who always have lank, squealing shoats. I do not recommend, however, that pork should be grown ex-clusively on dairy swill, for the meat is apt to be soft though sweet. Good, clean, rich dairy swill, like buttermilk, sour milk and whey, together with shorts and a little cornmeal, will make a pig develop physically as rapidly as it should, and insure firm, sweet pork.

Many dairy farmers in this state are producing pork for home consumption very cheaply by the judicious use of the waste from their dairies. If the course they pursue could be emulated by all it would produce quite a revolution here in swine growing methods. Half of the dairymen, through the negligence and fault of cheese manufacturers, are furnished regularly with an inferior quality of whey that is worth only half value for hog feeding. Rankly soured whey is an abomination in the pig's trough, for it possesses about as much value for swine food as would potatoes and salt for a human diet. A slight degree of acid in whey is essential to give it good feeding value, but when it is so sour that it will sparkle and foam it is not an economical diet to give to swine.

I think that it would behoove every dairyman to estimate as nearly as peable this fall the actual cost of the pork that he has raised. To compare this result with the market value of the meat would cause the producer to do some inon having a good quality of whey fur nished them. Manufacturers should provide better tanks for storing whey, and the whey should be daily sterilized in hot weather to keep it passably-sweet. A steam pipe from the boiler could sterilize the whey in a chesp and effective

manner. I can point to as fine calves as were ever grown that were raised the past summer on whey, with the small addition of a mixture of shorts and middlings. White whey denotes that your cheese maker is not getting out of the milk all of the casein and butter fat that he should, and however much your pigs and calves may thrive on the diet, it is too expensive to be long tolerated.—George E. Newell in American Cultivator.

From the New York Dairy School. When is butter overworked and what

is the result of overworking? When the globules are broken. It is

salvelike and will not keep well. What per cent, of water should well

made butter contain? Not over 12 per cent.

milk, cream and butter?

Clean, sweet and smooth. Breed of cows. Give comparative dif-

ference in richness of their milk. First, Jerseys; second, Guernseys; third, Shorthorns; fourth, Holsteins. The Holsteins give greater quantity and equal results in amount of butter with

Food of cows. How does the food and water affect the quantity and quality of milk?

Judicious combination of nitrogenous quantity and best quality of milk. Weeds and impure water impair the quality, sometimes rendering the milk unfit for

How should cows be stabled to make the most comfortable, and what effect has comfortable quarters and cleanliness on the animals relative to economy of food fed and of results in product?

Let each animal have a box stall. Let it be kept warm, dry, clean and well ventilated. The food manger so arranged as to be kept clean also; effect, less food consumed and more milk and butter produced than if cows lie out of doors and feed at straw stacks.

What Can Be Done.

Last year Dairy Commissioner Brown, of New York, at a dairy meeting said: "We are keeping on twenty acres seventeen cows, four horses, hogs and chick-ens. All the fodder we use for that stock we raise on twenty acres. We keep Jersey cows that average 300 pounds of butter a year per cow and get about thirty cents per pound for the but-ter, or about ninety dollars per cow. After deducting all expenses there was a net profit of fifty-six dollars per head. We are using ensilage, and this is our second year. We make butter at a profit of sixteen cents a pound.
"We feed ensilage summer and winter.

I do not know of any other means by which we could keep that number of stock on the land, except with a silo, We feed some grain. The past winter we fed three pounds of hay at noon, twenty pounds night and morning of ensilage, and three pounds of clover hay at night. We fed seven or eight pounds of grain with the ensilage twice a day. We cut our corn for the ensilage, and never put it in whole. We use the southern corn, and find the grain evenly distributed in the ensilage."

EGGS IN WINTER.

Profitable Feeding and Management of Poultry in Cold Weather.

comfortable poultry house can be cheaply and expeditionaly made in the corner of a barn, shed or any outbuilding. It should be cheerfully lighted and face the south or west if convenient. Tarred felt paper makes a good lining Fowls do better in small colonies. The laying stock must not be crowded, or they will not be layers long. The temfreezing-at any rate, warm enough to prevent the combs of the layers from freezing. A wooden floor is better than any other kind. In the cold weather the best earthen floors will get damp and keep so, and damp is disease and death

The best roost is a 2 by 4-inch scantling, put broadside over two 12-inch boards, forming a platform to catch the droppings, which as manure is worth seventy-five cents to one dollar per barrel. Heavy fowls should not have to jump more than eighteen inches. Each pen should contain a dust bath, so that the fowls can roll in the dry dust and keep down liee. A small box to hold broken oyster shells, old mortar, gravel. SEWING MACHINES crockery broken into small pieces, etc. Some of these substances are absolutely ssary to furnish grit to grind up the food. They are the hen's teeth. A certain amount goes to furnish lime for the egg shell, but much of the lime for this purpose can be given in the shape of

proper food. The hens should be kept in constant activity. A lazy hen is never a laying one. Cut straw, hav, chaff or dry leaves should be scattered liberally on the floor of each compartment, and in this all grain fed should be thrown, so that the hens will be kept scratching for it. A cabbage suspended from the roof or ceiling high enough to make the hens jump busy Occasionally substitute a piece of cow's liver, lights or any tough sort of meat for the cabbage. In very cold weather the chill should be taken off the water for drink.

Laying fowls require plenty of fresh circuit judge had yet been appointed. water, bence the importance of having the house warm enough to prevent water freezing. Take away all the male birds from the laying hens. The cock bird is a nuisance in the pen of layers. He not they need, is shown by the fact that would cause the producer to do some in-only monopolizes the most of the food, teresting thinking. Farmers who make but teaches the hens to break eggs, and milk production a specialty, and who so learn to eat them. Besides, the pratronize cheese factories, should insist stimulating diet is too fattening for him.

and will ruin him as a breeder.

In the cold weather of winter a warm meal in the morning is necessary to start and keep up a steady supply of eggs. A good plan is to throw all the waste of the kitchen, in the shape of meat scraps, pieces of bread, uneaten vegetables, etc., into a pot; heat up in the morning till nearly boiling, and then mix bran, provender, shorts, or whatever is most abundant or cheap on the farm, into the hot mess, dusting in a small quantity of red pepper before mixing. Let the mixture stand for a few minutes until the meal is nearly cooked; then feed in a clean trough, with laths Labor that is held in servitude should over it to keep the hens from jumping not be allowed to compete with that of in and fouling or wasting the feed in free men. While it is necessary that their eager anxlety. Feed only enough of this soft stuff to barely satisfy, never

enough to gorge.

When a hen has had so much food that she will go into a corner and mope she has had too much, and if the overfeeding is continued will soon cease to friends furnish an illustration of what lay. The laying hens are the active ones. If food is given at noon it should be oats, and scattered among the litter on What should be the condition of milk the floor. This meal should be light. vessels to produce the best results in The last food in the afternoon should be generous. Each hen should be sent to roost with a full crop to carry her over all the night. Green food in the shape of vegetables, usually grown on every farm, will be relished by the layers. Cabbages, turnips, carrots are generally the most convenient. Small potatoes boiled and mixed with provender or bran

is a good change for the morning meal. Some of the above named vegetables should always be in the pens of the layers. There is no danger of their eating too much. Red clover hay steamed, and carbonaceous foods insure greatest chopped and mixed with bran and given while hot is one of the healthiest foods for the morning meal. Meat in some shape must be given at least twice a week, to furnish blood making material. Hens fed on meat lay well. If given no meat the hens will eat their eggs and pick feathers from one another. In cold weather warm the grain feed.

What would be generous and stimulating diet for Leghorns, Minorcas and others of the Spanish family would be too fattening for Plymouth Rocks or Brahmas. As before stated, give enough to keep the hens active. When meat is given it is not necessary to give so much grain. For instance, if meat is fed at noon it will be only necessary to scatter a few handfuls of oats in each pen to keep the inmates at work. When a hen becomes too fat she will lay soft shelled eggs. Where plenty of meat is to be had as one of the cheapest articles of food a greater quantity of oats may be given. Wheat is the best all round food. The waste of the farm in conjunction with meat and the hot morning meal and ex-

ercise will bring plenty of eggs. Beyond question the best all round fowl for the farmer is the Plymouth Rock. The two best breeds are the Ply-mouth Rock and the White Leghorn, for the reason, as the tables published in a preceding part of the report proves, that the Plymouth Rocks put on flesh more rapidly, and the White Leghorn lays more eggs than any other of the standard breeds. Closely following come the Wyandottes as an early flesh producer and layer. Then follow the Brahmas, but they are slower in development. Another advantage in keeping Plymouth Rocks and Leghorus is that while the Plymouth Rock aens are hatching chickens, after laying all winter, the Leghorus (being nonsittere) will ter, the Leghorns (being nonsitters) will go on laying, and pay the expense in-curred while the other breed is sitting. —Report : Ottawa Central ExperiC. P. WINESET.

WINESET & SCRIPTURE,

and is obnoxious to vermin. The house should be divided into pens, large enough to hold twenty fowls and no more.

Largest stock of Coffins and Caskets kept South of Portland. Also cloth covered and Metallic Caskets furnished to order. Ladies Burial Robes and Gents' Burial Robes in stock.

UNDERTAKERS & EMBALMERS.

perature in the coldest weather should be high enough to keep the water from eral Blacksmithing on short notice.

REAL ESTATE

The best bargains yet offered in City, Suburban and County property.

INSURANCE

FIRE AND ACCIDENT. Policies in the leading Companies

PIANOS AND ORGANS

The celebrated fast and light running Standard.

THAYER & ALDEN

Opposite Corner from Court House, Oregon City,

The State Press.

THE UNITED STATES JUDGESHIP,

Oregonian: The report that Senator Dolph is a cardidate for a place Southern Pacific Route on the supreme bench creates no surprice here. It has long been talked over among those who have taken at it is a capital way of keeping them an interest in the appointment of circuit judge, and is supposed to have intimate connection with some of the features of the circuit judge contest. Some think it goes far to explain why no

MORE LAND THAN THEY NEED.

Klamath County Star: The fact that the Oregon farmers want more land than they take more land then they can use. About every agricultural home in Oregon is haunted by the spirit that yearns to make final proof in support of its claim upon the earth. We can point to Pullman Buffet Sleepers. lots of farmers who raise grain of one tourth of their land and ground squirrels on the other three-fourths. "Never bother with more then you need," is true wisdom, and the ground squirrels have more of the capacity to make due use of it than the ground owners.

CONVICT LABOR.

Eugene Guard: The contracting of prison labor is wrong in principal, and should be abrogated by the state. 7.25 F.M. Ar McMinnville Lv 5:45 A. M not be allowed to compete with that of confined criminals should have employment it should be regulated so that it would not conflict with other men. In some states prisoners are worked on public roads, and our British Columbia can be done by this class of labor. Fine durable roads have been built at little Oregon City Express No I. expense to the dominion. In many portions of Oregon gravel is remote or not obtainable for roads, yet there are few places where stone cannot be secured. A rock crusher would make it the best material possible for use on our roads. The state has several hundred convicts that could be let out to coupties that would garantee their safe keeping

Bucklen's Arnica Salve.

The Best Salve in the world for Cuts, Bruises, Sores, Ulcers, Salt Rheum, Fever Sores, Tetter, Chapped Hands, Chilblains, Corns, and all Skin Eruptions, and positively cures Piles, or no pay required. It is guaranteed to give perfect satisfaction, or money refunded. Price 25 cents per box. For sale by G A. Harding.

School deportment cards one cent each, good for term, at the ENTERPRISE

New Year Enterrises wrapped ready or mailing, five cents each.

A PATRIOTIC WORK.

Every person who is opposed to Free Trade Slavery and favors American Industrial Independence secured through the policy of Protection, should read the documents published by the American Protective Tariff League. As a patriotic citizen it is your duty to place these documents in the hands of your friends. They are interesting and instructive, and embrace discussions of all phases of the Tariff question. The League publishes over 50 different documents, comprising nearly 600 pages of plainly printed, carefully edited and reliable information, Among the authors of these documents are, Hon, James G. Blaine; Wm. McKinley, Jr., Governor of Ohio; Senator S.M. Cullom, of Hisnois; Senator G.M. Cullom, of Hisnois; Senator Joseph, S. Pelph, of Cregon; Sonator Joseph, S. Pelph, of Cregon; Sonator Joseph, S. Pelph, of Cregon; Sonator Joseph, O. North, Dakota; Hondon; M. Marin, J. C. Perrey, J. Hon, Romator Nelson W. Aldrich, of Rhode Island; Hon, Thomas H. Dudley, of New Jersey; Hon, Robert P. Porter, of Washington; Prof. J. K. Dodke, of the Agricultural Department at Washington; Commodure W. H. T. Hughes; Hon, E. A. Hartshorn, of New York; Congressman Perkins, of Kansiss; Dr. K. P. Miller, of New York; Hon, Geo, Draper, of Mass, Hon, C. L. Edwards, of Texas; Judge Wm. Lawrence, of Ohio; Hon, D. G. Harriman, of New York; Hon, Geo, S. Boutwell, of Mass; Hon, C. L. Edwards, of Texas; Judge Wm. Lawrence, of Ohio; Hon, D. G. Harriman, of New York; Hon, Geo, S. Boutwell, of Mass; Hon, E. H. Aumidown, of New York; Enoch Ensiey, of Tennessee.

This complete set of documents will be sent to any address, post paid, for Fifty (50) Centa, Address, Wilbur F. Wakeman, Sec'y, No. S. West Twenty-Third Street, New York. tion. Among the authors of these documents

EAS AND ELLF

SHASTA LINE. Express Trains leave Portland Daily.

		2100000		
7:90 P. M. 7:15 P. M. 8:15 A.M.	Lv Lv	Portland Ar Oregon City Lv S. Francisco Lv	9:35 A.M. 8:43 A.M. 9:00 P.M.	
tions north gen City, V Shodds, He ving and E	of Vocd ilsey agen	stop only at the fol Roseburg: East Por burn, Selem, Alhar , Harrisburg, Junet BURG MAIL (Daily	tland, Ore- y, Tangeni ion City, Ir	

tion miles	ROSE	BURG MAIL	Daily	
9:00 A M. 0:00 A M. 0:40 t. M.	Lv Lv Ar	Portland Oregon City Roseburg	Lv	4:00 P.M 2:59 P.M 6:20 A.M
ALBAN	Y LO	CAL (Dally, ex	ccept S	unday.)
	Lv	Portland Oregon City	Ar	7:54 A. M.

TOURIST SLEEPING CARS,

West Side Division.
BETWEEN PORTLAND AND CORVALLIS. Mail Train, Daily (Except Sunday,)

7:30 a. s. Lv Portland Ar 5:30 r s 12:10 r. s. Ar Corvallis Lv 12:55 r s At Albany and Corvallis connect with trains of Oregon Pacific Railroad.

Express Train Daily (Except Sunday)

THROUGH TICKETS EAST AND SOUTH,

For tickets and full information regarding

JOHN DUFFY

Light freight and parcels delivered to all parts of the city.

Leave orders with F. T. Barlow.

Scientific American

For information and free Handbook write to MUNN & CO., 221 BROADWAY, NEW YORK.

Scientific American

E. F. KENNEDY.

Oregon City, Oregon,

Concrete and Artificial Stone.

Sidewalks, Steps and Curbing, Basement floors, Monuments, Etc. All work guaranteed. Estimates fur-Address care Charman & Co.

Established 1865.

Freight and parce a delivered to all parts of the city

Fine Tobaccos and Cigars.

Complete line of Holiday Goods at Port-land prices.

O'CONNELL & GLASS

Will have their Grand

OPENING

MUSICAL CONCERT!

MONDAY NIGHT, FEBRUARY 29,

7:30 TO 10 P. M.

The Public are Invited.

Corner Main and Fifth Streets.

UNCLE MYERS,

Portland Jeweler.

Importer of and Dealer in Diamonds, Watches, Jewelry, Clocks and Optical Goods.

No. 165 FIRST STREET, NEAR MORRISON.

Ladies' Private Entrance Up Stairs. Orders from the Country

CITY VIEW MARKET,

BOYER & GALE, Props.,

Fresh Beef, Mutton, Pork, Ham, Bacon and Lard. THE BEST OF MEAT KEPT AND SATISFACTION GIVEN, SHOP ON SEVENTH STREET, AT HEAD OF STAIRS.

NEW STORE! FRESH GOODS!

⇒S. S. JENNINGS ₩

Fancy and Staple Groceries, Fruits,

VEGETABLES, WOODENWARE AND FEED

Remember the place—on Seventh street, corner of Jackson. Mr. David May will be in charge of the sales department. Goods delivered free to all parts of the city.

O. E. A. FREYTAG,

Best and Cheapest Grocer.

Fancy and Staple Groceries in Great Variety. Vegetables, Fruit and Feed.

Fifteenth and Main, ORECON CITY.

FURNITURE,

Carpets, Matting, Mats, Rugs, Reed and Rattan Goods, Upholstered Rockers, Etc., of all kinds AT LOW PRICES.

Drayage & Expressing Special Rates on Upholstering this month.

All work guaranteed better than when done in wholesale houses, and we sell them cheaper than others can who buy from wholesale dealers.

Undertakers' Goods.

Candies, Nuts, Notions, Etc. Always a complete line, and can be turned out at the shortest notice.

HOLMAN & WARNER,

Oregon City Bank Building.