

Stock.

Food for Horses—Some Points of Value to Farmers Everywhere.

Fast driving and slow pulling or hauling heavy loads upon roads requires different food for horses. The difference between these two kinds of work would reasonably call for different feeding. The fast working horse exerts the lungs more freely than the slow worker, hence the food should be more concentrated, but yet digestible; it should also contain a sufficient quantity of fibre mixed with the finer matter to give the masticated food a porous consistence and prevent it from forming a too solid mass in the stomach. Oats is precisely the kind of food required to meet such a case. The husk of oats forms a large portion of the substance of the grain, while the kernel is rich in nitrogenous matter and has sufficient carbonaceous matter to supply all the needs of the lungs, which are stimulated by a muscular action to greatly increased exertion. Oats contain precisely the requisite proportion of fine and coarse matter for the horse aliment in a sufficiently concentrated condition to avoid overloading the stomach, and is thus the best food for the fast working horse, which needs no hay. But to get the best results from this grain it should be crushed and fed four times a day, so that the system is never exhausted by want of food.

The slow working horse on the contrary—the farm horse, for instance—does not require a concentrated food nor so frequent feeding, because the work is slower and the consumption of force is not great. A nature richer in carbonaceous elements is required, and as bulk is not objectionable a cheaper food may be used. The ration of a city car horse, for instance, which does not travel more than four miles an hour, is about twenty pounds of hay, and twenty pounds of cornmeal, finely ground, and on this feed the horses travel about twenty miles a day. The meal is never fed alone, and always without hay, which is wetted, and it is found the finer the meal is the better it sticks to and mixes with the hay, and the better, therefore, it is digested. To feed whole corn and long hay has been proved over and over again to be a waste of one-third of the food, and to feed fine meal alone, without the cut hay, is exceedingly dangerous, and apt to produce a fatal attack of colic. Where economy is a pressing need, a fairly good but cheap food may be made by grinding together ten bushels of oats and five bushels of corn, adding one bushel of rye or rough rice if it happens to be at hand. A little linseed oil cake would add to the value of the compound, but this is not usually to be had in the South. Add to this hay, of course. Where the grain ration is rich, the hay may be reduced in quantity and straw substituted for it. The Pennsylvania farmers use their rye straw for horse's feed and sell hay, bringing back for every ton of hay a large load of manure which taxes the full strength of their enormous wagons and their powerful four horse teams. The nitrogenous character of clover hay fits it excellently for the food of working horses, and as it is cut and wetted and mixed with corn meal makes, without any other mixture, a sufficient food for the hardest working farm horses.—New York Times.

Advice to Country Girls.

City life is not all that it is painted. It has its pleasures and conveniences, but it also has its serious drawbacks. Before making the plunge into life in the city, country girls should ask themselves what is really to be gained by it. Perhaps in their quiet, rural homes some stray advertisement has reached them, promising to young women high salaries for light work. Hundreds of these advertisements are framed for the very purpose of deceiving the unwary. They accomplish their purpose, however, and large numbers of young girls rush up to the city, dazzled by the generous profusion of promises.

A girl from the farm answers one of these advertisements. Life may have been slow at home, but there was always good food and in plenty, and there was some one to care for in the old farmhouse. When she goes to the big city she finds that the "light work" consists in working all day in a badly lighted and ill-smelling work-shop, where scores of other girls and women are employed at wages hardly high enough to keep body and soul together.

We know what often comes next. The girl has left home, she is ashamed or unwilling to return, and she must take the consequences, oftentimes one of two things—shame or suffering.

Many a girl finds first in the frivolities and next in the iniquity of the streets that excitement by which regrets and remorse may be deadened. If she is too strong in principle, too pure and elevated in tone thus to sink down to one of the pitiable women of the street, she may find herself in some cold garret, lonely, overworked, despondent and miserable.

Better remain at home than risk the failure which attends to many girls who go to the city in pursuit of high pay for light work. It is the saddest of all ventures, forsaking a country home for the illusions and deceptions of a large town.—Reading (Pa.) Times.

Breeding One Kind of Swine

If a man who engages in farming or breeding, or both, finds that he has a taste and talent for pursuing a given line of farming, or breeding a particular kind of live stock, he had better by all means adhere to that toward which his taste leads him, as in that particular direction he is sure to take the most interest and will have the best assurance of success. Farmers who have set out in business with the determination to grow a certain kind of crop, and have given a proper attention to rotation, fertilizing, etc., have the advantage of always being on hand with the regular article when prices are stiff and the demand is good. Whereas those who change about are pretty sure to take up with a new undertaking after it has had a boom, and by the time they are ready to appear in market with their crop, the tide has come and gone.

A breeder of Berkshires, Poland-Chinas, or other breed of swine, who has for a period of years steadily adhered to the one breed, it is fair to assume, has possessed himself of all the essential facts relating to its breeding and management, and if he does not excel one not so long in that particular line, it is for the reason of possessing less mental penetration and force. Hence, the man who anchors to a given breed, and succeeds, is to give the branch that he controls a type more or less peculiar to himself, and a reputation in keeping with the merit he fixes upon his herd. Fix the mind upon a type, after taking full consideration, and adhere to this. Anchor to deep, long-tryed blood, this being within a symmetrical contour, and in changing for new blood always exact that the outward shape be up to the standard first fixed upon, never below it.—Live Stock Journal.

The Advantages of Winter Dairying

There are many who, judging from the course they follow, think that summer is the only favorable time for butter making. With them the winter is an unprofitable season, during which the cows must be fed without making any return. When they add to their stock of cows, they select such as are fresh in the early spring, expecting to have good returns during the summer, and when winter comes, either dispose of them to some one who will fatten them for beef, or keep them through the winter in anticipation of their again being fresh when spring comes. It will be readily seen that the plan of having a cow idle three months of the year, and that during the season when butter commands the best price, must be unprofitable. To be sure, the cows will need more care and protection against the cold when giving a large yield of milk in the winter, but this can be secured at comparatively small expense, where ordinarily comfortable barns have been erected. These may have an extra lining of boards on the inside, the space between that and the outside boards being filled with straw, well packed in, or sawdust. Then, too, the cows can be more easily and regularly cared for when confined to the stable or yard than during the summer, when turned to pasture, oftentimes some distance away. The butter is more easily kept sweet and solid when the weather is cold, and this is the season when it brings the best price. Winter dairying has many advantages over that carried on in the summer, as many who have tried it will testify. Particularly has this been found to be the case in those states where the summer season is long and hot. Some have tried both systems in the west where the winters are severe, and have found the quality, as well as the product, quite equal to that of the summer months.—Live Stock Journal.

Bucklen's Arnica Salve.

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

Correspondence.

Downing on Fruit Culture.

PLEASANT HILL, Dec. 26, 1886. Editor Willamette Farmer: Will you announce through the columns of your paper where Downing's works on "Fruit Culture" can be obtained, and oblige, S. E. BRISTOW. [NOTE.—In reply we will say that we can supply this work at \$5.00 per copy, or we will present it free to anyone, (post paid) who will send us a club of ten new subscribers at \$1.50 each, cash with order. Now here's a grand chance.—EDITOR.]

An Interesting Letter.

Moscow, Idaho, Nov. 22, 1886. Messrs. Staver & Walker, Portland, Or. GENTLEMEN:—This is to certify that I bought one of your Hoosier Runner Press Grain Drills and used it on my farm last spring. I planted some wheat, flax and barley. It was late in the season, but it all came up well. I also planted some wheat four weeks earlier with one of D. E. McSherry's Broadcast Seeders, and only wish that I had planted all my wheat with the Press Drill.

Mr. B. A. McGuire, my neighbor, planted some barley about May 10th. I planted some next day. The result was that he never cut a spear—owing to a dry spring—while I cut a very good crop, planted with the Press Grain Drill. I can prove this by several of my neighbors, and would make affidavit to that effect if required. Yours truly, (Signed) T. F. MAHER.



It has been demonstrated by careful practical tests that the probabilities of the germination of seed wheat are greatly increased by packing the earth on the seed at time of drilling, and that, in consequence, the quantity of seed can safely be reduced one-half or one-third of the amount usually sown, with full assurance that the yield will also be greatly increased. The Hoosier Runner Press Drill is the latest improved and best implement for seeding purposes yet invented. Send for special illustrated circulars. STAVEL & WALKER, Portland, Oregon.

Unnecessary Misery.

Probably as much misery comes from constipation as from any derangement of the functions of the body, and it is difficult to cure, for the reason that no one likes to take the medicine usually prescribed. HAMBURG FIGS were prepared to obviate this difficulty, and they will be found pleasant to the taste of women and children. 25 cents. At all druggists. J. J. Mack & Co., proprietors, S. F.

A good grooming is as refreshing to a horse as a bath is to a man.

1887. HARPER'S WEEKLY. ILLUSTRATED.

Harper's Periodicals.

HARPER'S WEEKLY maintains its position as the leading illustrated newspaper in America, and its hold upon public esteem and confidence was never stronger than at the present time. Besides the pictures, HARPER'S WEEKLY always contains instalments of one, and occasionally two, of the best novels of the day, finely illustrated, with short stories, poems, sketches, and papers on important current topics by the most popular writers. The care that has been successfully exercised in the past to make HARPER'S WEEKLY a safe as well as a welcome visitor to every household will not be relaxed in the future.

Table with 2 columns: Periodical Name and Price. Includes Harper's Weekly, Harper's Magazine, Harper's Young People, Harper's Franklin Square Library.

The volumes begin with the first Number for January of each year. When no time is mentioned, it will be understood that the subscriber wishes to commence with the Number next after the receipt of order. The last three Annual Volumes of HARPER'S WEEKLY, in neat cloth binding, will be sent by mail, postage paid, or by express, free of expense (provided the freight does not exceed one dollar per volume), for \$7 per volume. Cloth Cases for each volume, suitable for binding, will be sent by mail, postage paid, on receipt of \$1.00 each. Remittances should be made by Post-Office Money Order or Draft, to avoid chance of loss. Newspapers are not to copy this advertisement without the express order of HARPER & BROTHERS, New York. Address HARPER & BROTHERS, New York.

Advertisement for 'NO MORE BACKACHE, KIDNEY TROUBLE, DYSPEPSIA, Diseases of the Bladder, Gravel, Diabetes or Bright's Disease, Head trouble, etc., from the FAR WEST comes a well tried remedy, sure and permanent.' Includes 'OREGON KIDNEY TEA' and 'The Cure is'.



There is no remedy which can rival Hamburg Fig for the cure of habitual constipation, indigestion and sick-headache. Their action is as prompt and efficient as their taste is pleasant. 25 cts.

DR. FLINT'S HEART REMEDY

When the Heart, Kidneys and Circulation are in a healthy condition all other ailments are mere "side issues" which readily yield to treatment. Dr. Flint's Heart Remedy exerts a specific and direct action on these organs. Descriptive treatise accompanies each bottle, or mailed free. It will repay a personal and prove instructive and interesting. \$1.50. At all druggists, or address J. J. MACK & CO., 9 and 11 Front St., San Francisco, Cal.

Notice of Final Settlement.

LOUISA J. DURETTE having filed her final account as executrix of the estate of B. G. Durette, deceased, the Hon. Probate Judge of Marion County has named Monday, December 20, 1886, at 10 o'clock A. M. for hearing any objections to the allowing of said accounts and the discharging of said executrix. LOUISA J. DURETTE, Executrix of the Estate of B. G. Durette, deceased.

C. W. JEFFREY, VETERINARY SURGEON.

Treats the Diseases of Domestic Animals. All questions pertaining to the profession, answered by mail. Castrating Colts and Ringling a specialty. Office at the Minto Bros. Livery Stable Salem, Oregon. Jan 24th

BREEDERS DIRECTORY.

SMALL ADVERTISEMENTS like the following will be inserted in our columns, in their proper classification, for \$5 to \$10 a year, including copy of paper. \$2 Larger space charged for pro rata.

CATTLE

D. H. LOONEY, Importer and Breeder of JERSEY CATTLE. I have a few Choice Holsteins and Bulls for sale. Address or call: Jefferson, Or.

LADD & REED, PORTLAND, OREGON. Importers and Breeders of Short-Horn Cattle, Cotswold and Leicester Sheep and Clydesdale Horses.

R. W. CAREY, Salem, Oregon. Polled - Angus Cattle. Call and see my stock.

SHEEP.

JOHN MINTO, Salem, Ogn. Breeder of IMPROVED AMERICAN MERINOS of Spanish importation and cross breeds of the French and Spanish stocks known in Oregon as AMERICAN MERINO. A good lot of Ewes for sale as well as Rams. Prices in accordance with the market. Correspondence solicited.

D. M. GUTHRIE, Dallas, Ore. Importer and Breeder of Spanish, French or American Merinos. Send for Prices etc.

SHROPSHIRE SHEEP and ESSEX HOGS, imported and bred by G. W. Hunt, Whiteaker, Or.

PURE BERKSHIRES. R. C. HALLIEY Salem, Or. Has a thoroughbred Registered Pig. Call or send for my prices. Farm is five miles south of Salem on old stage road.

MISCELLANEOUS.

GEO. D. GOODHUE, SALEM, OREGON. The Leading WYANDOTTIE and BROWN LEGHORN breeders of the Northwest. Enclose stamp for circular. 1/2 Jersey Cattle for Sale.

DEDERICK'S HAY PRESSES. The best in the market for keeping the one and only best hay. For circular and location of agents and Southern Representatives and Agents, send stamp to DECKER & CO., Albany, N. Y.

JOHN KNIGHT, Blacksmithing and Horse-Shoeing.

HAVING OPENED AT MY NEW QUARTERS, No. 308 Commercial street, I am prepared to do all kinds of repairing. All old patrons are invited to call and I will give their work my best care and attention. \$2 I Make a Specialty of Horse Shoeing.

BREYMAN BROS., MONEY BROKERS!

Money to Loan without Commission. In sums to suit on real estate or approved security. Purchasers of Notes, County and State Warrants. Mortgage loans made on three to five years time. \$2 Office: Breymans block, Salem, Oregon. Feb 3 1886

P. J. ARMSTRONG, JAN. ROSS. P. J. Armstrong & Co., (Successors to Kelly & Knight.)

Advertisement for 'BLACKSMITHING & CARRIAGE MAKING.' Includes 'Horse-Shoeing and General Jobbing made a specialty.' and 'At A. KELLY'S old stand on Commercial street, Salem, Oregon.' Includes an illustration of a horse-drawn carriage.

DR. JAYNE'S AGUE MIXTURE.

A CERTAIN AND EFFECTUAL REMEDY FOR Fever and Ague, Intermittent and Remittent Fevers, &c.

This class of diseases so common in all parts of the World, and especially prevalent in malarious districts and vicinages of water-courses, are almost invariably accompanied by more or less derangement of the liver, and frequently by a defective action of the digestive organs. The mere breaking of the Chill is but a step towards completing a radical cure; the various organs of the body, especially the stomach & liver, must be brought to a healthy and vigorous condition before a permanent cure can be established, and this fact has been specially kept in view by Dr. Jayne in his treatment of these complaints. The use of Jayne's Ague Mixture, in conjunction with Jayne's Sanative Pills, as prescribed in the Directions which accompany each bottle, will not only

BREAK UP THE CHILLS, but restore the system, more particularly the liver and stomach, to a sound condition, and so prevent a relapse of Fever and Ague by thoroughly

ERADICATING THE DISEASE, and the best evidence of this is the invariable success which has always followed the administration of these remedies, as attested by the certificates published annually in Dr. Jayne's Almanac, and the wide-spread popularity of the Ague Mixture in those districts of the United States, where the diseases, for which it is adapted, most prevail.

For Sale by Snell, Hitshu & Woodard, Portland.

Advertisement for 'ENGLISH MEDICAL DISPENSARY' for 'NERVOUS CHRONIC & PRIVATE DISEASES' and 'YOUTHFUL FOLLIES & EXCESSES SPECIFICALLY CURED.' Includes 'Nervous Debility, Seminal Weakness, Exhausted Vitality, Low Nerves, &c.' and 'The BUYER'S GUIDE is issued Sept. and March, each year. \$2-318 pages, 8 1/2 x 11 1/2 inches, with over 3,500 illustrations—a whole Picture Gallery. GIVES Wholesale Prices direct to consumers on all goods for personal or family use. Tells how to order, and gives exact cost of everything you use, eat, drink, wear, or have fun with. These INVALUABLE BOOKS contain information gleaned from the markets of the world. We will mail a copy FREE to any address upon receipt of 10 cts. to defray expense of mailing. Let us hear from you. Respectfully, MONTGOMERY WARD & CO. 227 & 229 Wabash Avenue, Chicago, Ill.

ENGLISH MEDICAL DISPENSARY. No. 11 Kearny St., San Francisco, Cal.

Advertisement for 'RUPTURE' treatment. 'Absolutely cured in 30 to 40 days, by Dr. Pierce's Patent Magnetic Elastic Truss. Warranted the only Truss in the world. Entirely different from all others. Perfectly safe and comfortable night and day. Cured the renowned Dr. J. J. Jones of New York, and hundreds of others. Illustrated pamphlet free containing full information. MAGNETIC ELASTIC TRUSS COMPANY, 204 Sacramento St., San Francisco, Cal.

Advertisement for 'MASON & HAMLIN ORGANS.' 'Highest Honors at all Great World's Exhibitions for thirteen years. 100 styles, \$25 to \$100. For Cash, Easy Payments, or Rental. Catalogue, 40 pp., 40c, free.

Advertisement for 'PIANOS.' 'The Improved Method of Striking. Introduced and perfected by MASON & HAMLIN, is conceded by competent judges to constitute a radical advance in Piano-forte construction. Do not require one-quarter as much tuning as Pianos generally. Descriptive Catalogue by mail.

Advertisement for 'ORGAN & PIANO CO.' '44 Tremont St., Boston. 149 Wabash Ave., Chicago. 46 E. 14th St. (Union Sq.), N. Y.

Advertisement for 'THE IMPROVED AGUE WASHER and BLEACHER!' 'Weighs only FIVE lbs., and can be carried in a small valise. \$1,000 Reward for its SUPERIOR Washing made light and easy. The clothes have that pure whiteness which no other mode of washing can produce. No rubbing required; no friction to injure the fabric. To place it in every household the price has been placed at \$2, and if not found satisfactory within one month from date of purchase, money refunded, less Express charges. Send for Circulars. Agents wanted. C. W. DENNIS, 213 Young St., Toronto, Ont. N.B.—Machines will be shipped from Rochester, N. Y., thus saving U. S. duty. Please mention this paper.

Advertisement for 'FINE PRINTING!' 'I have always pressed and every facility for neat and rapid execution of all kinds of Job Printing, as low as it can be had in the State. I also keep a large stock of LEAL HILMAN'S for Circuit, County, Probate and JUSTICE'S courts. Send order by postal card for Price List and Catalogue. E. M. WATTE, Steam Job Printer, SALEM, Oregon. WORK FOR ALL. \$30 a week and expenses paid. Respectable and particular free. F. G. VICKERY, Augusta, Maine.