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STORY OF HOW ALFALFA IS AS A CATTLE AND HOG FOOD this section of Montana, will pro-TOLD BY AN EXPERT THAT a pound. ALL MAY LEARN

Continued from last week

The hog's digestive process comes tions nearer to that of man than does stand the digestive machinery and that of any other creature; it is processes of the hog. Let me illustrate this: When I was attending easily upset, and to get satisfactory the dry farming congress I repez commercial results the delicate di- edly received word from my super gestive machinery of the swine intendent that my shoats were dy must be artfully, systematically and scientifically pandered to from in-"tucked in the flank," that they fancy up. The whole agricultural dragged around a few days and world is practically agreed on the then died. fact that skim milk and shorts are about the ideal food for pigs. It is also admitted, and cannot be dis- tom and had been poisoned by puted, that if any grains are cook- I wired back to shut the shoats up ed they are thereby put into a much more digestible form than died and other were languishing. when raw. Consequently in work- told the boys, who thought choler ing out my hog ration, my aim has had struck the drove, that we had been to duplicate, and if possible, to improve upon, the heretofore ideal combination of skim milk and had died we found a hard impac-

shorts. A Cheap and Nourishing Food

the farmer would call hog scales the shoats and three drops analysis prove that the alfalfa tea each of the sows. After that ration is not only 50 per cent bet- did not lose any more hogs; ter than the shorts and skim milk swine a chance to impact combination, but that it costs less selves again with coarse alfalfa fi than half as much. More than ber. this, it has another immense advan-tage. It can be produced in large abused animal food in the world in and dependable quantities wherev- the matter of the wastefulness with er alfalfa is raised. On the other which it is generally fed; and he hand, available skim milk is always insists that this abuse is so comlimited to the dairy output, while that it may be called universal the supply of shorts is always ex- without danger of slandering more tremely limited; and the demand is than a few persons. He insists so great that no farmer in Montana also, that this waste in most case or an other place that I know of, der the common practice, alfalfa is can go to any mill in this country cut so late in its development that today and place a contract for five a large proportion of the leaves cars of shorts. Why? Because the drop off in the process of harvestbig mills use their shorts as a bait the straw and remainder of leaves for the sale of their flour.

mill for less than twenty dollars a Of course the more careful farmer ton, and it is not uncommon for of the foliage, because he does his them to go as high as twenty-six cutting before the alfalfa has reachdollars.

alfalfa contains too much coarse, delayed cutting. woody fiber to be used in compounding this ration. Therefore I This is greatest under the practice take the mill run and put it over of scattering forkfuls of it over the a screen which takes out a certain mates that this wastes fully fifty proportion of the coarse fiber, all per cent of the tonnage handled that would be injurious to the hog; Second to this in wastefulness is the result is a meal that contains the method of stack feeding so comthe result is a meal that contains monly practiced in the west where the stock is allowed to run to the less than 15 per cent of fiber and stack, pull out the alfalfa and is in a form that compares physitrample it under foot. He estically with shorts in practically every particular, having about the his tonnage and in most cases the same specific gravity and the same loss is nearer 50 per cent. general characteristics. By adding means, according to a small proportion of corn or bar- that open field feeding gives ley meal to this alfalfa meal, and wetting the whole down liberally forage crop on earth. with alfalfa tea, an almost perfect he declares; and that is the way most alfalfa is fed today. Even the more careful farmers who feed with alfalfa tea, an almost perfect suit conditions—but at most it is in racks suffer at least a loss only a small proportion, about one 25 per cent of the tonnage. There to ten, and even this can be entire- is an old saying that you can force to ten, and even this can be entire-in a horse to eat shavings, but the horse will die. In rack feeding you obtained by using beet sugar mo- can force your stock to eat a con-lasses that costs \$8 a ton. This siderable portion of the straw inmolasses is 64.5 per cent carbohy. stead of pulling it out and scattermolasses is 64.5 per cent carbohy-drates and the corn meal is 74 per ing will result in a skinny bunch of cent. Of course the molasses is stock. deficient in fat, but we make that demonstrated to me the amount of up by adding a little flax meal.

of skim milk, and is highly laxa- I had not before, the awful tive in its effect. It puts the sows criminal waste of this wonderful in good condition to farrow and supplies them with an abundance of milk All the sows on the Broad. milk. All the sows on the Broad- straw and stems of alfalfa into view Ranch are now fed on this balanced ration that stock would mash of alfalfa tea and alfalfa meal eat as eagerly as they do the alfor ten days previous to farrowing der the waste of a pound to the This diet is continued for 2 months ton unnecessary and inexcusable.

The little pigs To be Continued will begin to eat it at ten days of age; and after they get a good. The Spokesman for job work.

taste of it they will get right into The Redmond Spokesman taste of it they will get right into sow. The mash is fed twice a day, and when the time comes to bring out his ration every now and pig in the whole outfit is standing with its front feet up on the fence and squealing as if half starved. If hay or any other feed is given them they pay little attention to it. At the end of two months I take the sows off and leave the pigs, carry ing on the diet-which is kept ADVERTISING RATES made known down as low as possible in its protein content until the end of mix Make all moneys payable and address months, at which time I increase I communications to H. H. & C. L. the carbohydrates and give them almost a carbohydrate diet for two months longer, until we finish our hogs. Under this feeding, pigs 60 days old should weigh 60 pounds. and they will do it easily when all the conditions are right.

In fair weather, without any artificial regulation of conditions, pigs fed on this plan should weigh 60 pounds on 60 days, 150 pounds in six months, and 200 to 225 pounds SCIENCE FARM at the end of eight months. The cost of producing pork on the Broadview Farm, under the feeding system I have described, is ordin arily two and a half cents a pound Sometimes it is a small fraction of a cent more than this. It is safe to say that this system, conscien MADE TO PAY AND ITS VALUE tiously followed by any farmer in duce pork at a cost of three cents

Shoats Killed by Coarse Fiber

Before dismissing the subject of feeding alfalfa to hogs, it should be said that many hogs are lost every year by feeders in alfalfa secbecause they do not under ing off at an alarming rate. messages said that the pigs were on alfalfa pasture, I surmised that they had managed to get hold some digitalis alonog the river bot in a pen. The day I returned hon three big husky shoats had just better hold an autopsy and perhaps could learn something.

In every one of those sheats that tion of coarse alfalfa fiber at the upper end of the large intestine. then made a mash, fortified wit Both chemical analysis and what one drop of croton oil for each o we knew better than to give our

begins with harvesting, where, un adhering to it have not an actual Shorts are seldom sold at the food value to excedd \$2.50 per ton ollars.

ed so advanced a stage of overmaturity; but in most cases he makes considerable sacrifice because of

Next comes the waste in feeding. feeding pen. Doctor Sudduth eati the farmer less than 25 per cent of farmer about \$1.99 a ton in actual food value for the most nourishing

That is not putting it too strong When chemical analyses nutriment—the high percentage of digestible protein—in the stalks p by adding a little flax meal.

The alfalfa tea takes the place and stems of alfalfa, I realized as

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