

SELF-FEEDING PLAN

Value Demonstrated in Recent Experiments at Beltsville.

PLAN IS VERY PRACTICABLE

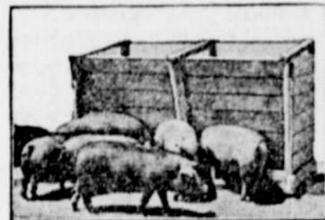
Grade Berkshires, Uniform in Size, Averaging 93 Pounds Were Used—Ample Room for Exercise Was Given for Animals.

(From the United States Department of Agriculture.)

The value of the self-feeder method of fattening pigs was demonstrated in an experiment recently carried out at the experimental farm of the bureau of animal industry at Beltsville, Md. The object was to determine the value of this system as compared with the ordinary method of hand feeding.

The pigs used in the experiment were grade Berkshires farrowed in the fall of 1915. They averaged 93 pounds per head when the experiment started.

The hand-fed lot were fed three times daily, the amount being governed by the appetites. The ration given the hand-fed hogs was composed of 5 parts cornmeal, 4 parts middlings and 1 part tankage. The cornmeal and supplements were mixed dry. Just before feeding, the amount to be fed was weighed and then mixed into a thick



Inexpensive Self-Feeder.

slop, enough water being used to make the slop pour out of the bucket without sticking. The feeding was done at 7 and 11:30 o'clock in the forenoon and 4:30 o'clock in the afternoon. The self-fed lot had free access at all times to cornmeal, middlings and tankage in separate compartments of a self-feeder. Close watch was kept on the feeder, and a supply of each feed maintained.

Both lots of pigs were kept in dry lots a quarter of an acre in size. The pigs were given ample room for exercise and sufficient shelter. The pigs in both lots had access to a mineral mixture composed of:

Charcoal, bushel	1
Hardwood ashes, bushel	1
Salt, pounds	1
Air-slaker lime, pounds	8
Sulphur, pounds	4
Pulverized copperas, pounds	2

Summary of Results.

Feeding period, Feb. 22 to May 2, 1915-70 days.	Hand-fed lot.	Self-feeder lot.
Number of pigs	9	9
Average initial weight, pounds	94.00	92.00
Average final weight, pounds	167.50	205.00
Average gain per pig, pounds	73.50	113.00
Average daily gain, pounds	1.04	1.61
Feed eaten daily by pig:		
Corn meal, pounds	2.13	5.46
Middlings, pounds	1.70	.81
Tankage, pounds	.42	.28
Average daily ration, pounds	4.25	6.55
Pounds of feed per 100 pounds gain	40.00	40.50
Cost of 100 pounds gain	\$6.24	\$5.67

*Ration: 5 parts corn meal, 4 parts middlings, 1 part tankage.
xRation: Cornmeal, middlings, tankage.

The cost per ton of feed used in the experiments was as follows: Cornmeal, \$27; middlings, \$30; tankage, \$50. All the pigs in the self-feeder lot maintained keen appetites during the 70 days of feeding. The hand-fed pigs averaged 94 pounds per head and the self-fed pigs 92 pounds per head at the beginning of the test. At the end of 70 days the hand-fed pigs averaged 167.5 pounds and the self-fed pigs 205

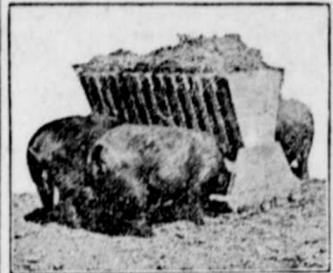
PLOW WHEAT GROUND EARLY

Buries Hessian Fly and Gives Soil Time to Become Moist and Compact Underneath.

Early plowing of wheat is beneficial in more ways than one. Not only does it bury the Hessian fly, but it also gives time for the plowed soil to become moist and compact underneath. Such a condition of the soil is difficult to secure if plowing is put off until September. Keeping down the weeds also conserves soil moisture and plant foods. From five to seven hundred tons of water are necessary to produce a ton of dry weeds and moist of this may be saved for the wheat crop. Plant food is made available more rapidly when early plowing is practiced, due to the better air circulation. If the weeds are kept down, this food is stored up and ready to give the wheat a quick, vigorous start when seeding time comes. If, on the other hand, the weeds are allowed to grow, they will draw heavily on this plant food and while they will eventually die and decay, restoring it to the soil, the

pounds, 37.5 pounds more than the hand-fed pigs. The self-fed pigs consumed a greater quantity of feed per head during the test than the hand-fed pigs, but it took only 405 pounds of feed to produce 100 pounds at a cost of \$5.67, while the hand-fed pigs produced 100 pounds of gain at a cost of \$6.24.

The self-fed pigs made a better show-



Self-Feeding Hay Rack.

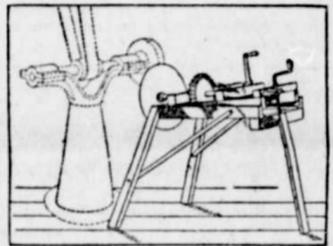
ing, surpassing the hand-fed lot in both rate and economy of gains. The results of the experiment clearly show that for quick fattening the self-feeder is very practicable.

KEEP FARM TOOLS IN ORDER

Holder for Disks and Colters for Use When They Are Being Sharpened Is Handy Device.

The Scientific American in illustrating and describing a holder for disks and colters while they are being sharpened, invented by J. J. Hinds and M. R. Wright of Wall Lake, Minn., says:

"This holder has a frame supported by, and movable vertically relatively to, the stationary frame, the movable frame having a bearing at one end, in which a vertical shaft is journaled, this shaft having a thread meshing in a threaded orifice in a member secured to the stationary frame. The shaft has flanges disposed so that the movable frame may be raised or lowered relatively to the stationary frame of a crank secured to the shaft. Journaled in bearings in the movable frame is a longitudinally extending shaft, to the outer end of which is secured a disk or colter to be ground, the longitudinal



Holder for Disks and Colters.

shaft being driven by gearing, which connects a transverse shaft, having a crank, with the longitudinal shaft.

GOOD AS RAT EXTERMINATOR

Exhaust Gases From Motor Proved Efficient by Illinois Farmer—Every Rodent Killed.

The exhaust gases of a gasoline engine are said to be fatal to rats. The chickenhouse of an Illinois farmer was infested with them. He attached a hose to the exhaust pipe of his motor car, inserted the other end under the floor and set the engine running. Twenty rats tried to escape, but were killed by dogs and when he took up the floor he found 140 rats dead or stupefied, not one escaping.

Cut Out Surplus Runners.

Hoe out the surplus strawberry runners just as if they were weeds—which they are. Crowded plants mean a poor crop next June.

Old, Sour Swill Barrel.

Do away with the old, sour swill barrel. It's a disgrace to your farm.

Examine Colt's Teeth.

If the colt shows colic symptoms or is not doing well, examine his teeth. A sharp tooth, cutting tongue or cheek will prevent grinding the food and cause trouble. Sometimes a tooth needs extracting.

Spraying Paid.

A Missouri county agent reports an orchard-spraying demonstration that resulted in profits of \$1,800 in 1915, when profits of from \$500 to \$800 a year had usually been received without spraying.

Thin Apples and Plums.

Do not let the apple and plum trees bear too heavily. The fruit should have been thinned to from four to six inches apart.

Forest Notes.

Much spruce of both the eastern and western varieties is used for sounding boards of pianos and organs. Its natural resonance has won it first place for this purpose.

Of the present total supply of hardwoods in the country, sixty-one per cent is located in the southern states. The Appalachian hardwood region is at present the greatest center of hardwood production.

Within the past year, the Forest Products Laboratory, Madison, Wis., by co-operation with manufacturers, has succeeded in getting a dye, made from mill waste of orange orange, put on the market as a substitute for fuchsine which we import from Jamaica and Tehuantepec.

About nine-tenths of the paper which we use is made from wood. Many of the so-called "silk" socks, neckties, and fancy braids now on the market contain artificial silk made from wood.

Agents—Demonstrators—Morris overcomes disease. Endorsed by physicians. Sample free. Write J. A. Moore, 45 Pike Place, Seattle, Wash.

Waste of Money.

"Women have queer ways."
"How now?"
"The styles call for mannish hats. So my wife bought a mannish hat for \$18."

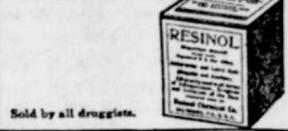
"Well?"
"She could have bought a man's hat for \$4."—Pittsburgh Chronicle-Telegraph.

A Merit.

"Do you think imitation butter is as good as the real?"
"In one respect," replied Miss Cayenne, "it's better. People can afford to buy it."—Washington Star.

Resinol

first aid for skin troubles



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Sore Eyes Granulated Eyelids, Eyes inflamed by exposure to Sun, Dust and Wind quickly relieved by **Marine Eye Remedy**. No Smarting, just Eye Comfort. At Your Druggist's 50c per Bottle. **Marine Eye Salve** in Tubes 25c. For Book of the Eye Free Ask Druggist or Marine Eye Remedy Co., Chicago

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Why They Cheered. "Who are those people who are cheering?" asked the recruit as the soldiers marched to the train. "Those," replied the veteran, "are the people who are not going."—London Saturday Journal.

You Can Get Allen's Foot-Ease FREE. Write Allen S. Olmsted, Le Roy, N. Y., for a free sample of Allen's Foot-Ease. It cures sweating, hot swollen, aching feet. It makes new or tight shoes easy. A certain cure for corns, ingrowing nails and bunions. All druggists sell it. 25c. Don't accept any substitute.

Clash of Colors. "I don't understand this talk about a green bay tree," declared the horseman. "Eh?" "If it's green, how can it be bay?"—Louisville Courier-Journal.

Her Training. She's quite a famous novelist. Sue writes best-selling books. She got her start in fiction Writing references for her cooks. —Boston Transcript.

Father—Don't know the French for cat, and you had a French nurse for years?
Hopeful—But, dad, we hadn't got a cat when Adele was with us.—Punch.

Let These Tablets Help You

When you feel yourself taking cold, Peruna Tablets are likely to check and overcome the attack.

When your appetite is fitful, your food does not taste good, Peruna Tablets will invigorate and regulate. When you are weak after illness, Peruna Tablets are noted for their healthful tonic effect. When catarrh distresses you, Peruna Tablets will help your system to rid itself of this disease.

Manala Tablets are a delightful laxative. Strong cathartics weaken, and are followed by reaction. Manala is mild, gently urging the liver to action, and will be found as safe as they are pleasant. By their use as directed, the habit of constipation is usually overcome. For children and invalids the treatment is safe and satisfactory. Any drug store can supply you. Get a box today.

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The quality of W. L. Douglas product is guaranteed by more than 40 years experience in making fine shoes. The smart styles are the leaders in the Fashion Centres of America. They are made in a well-equipped factory at Brockton, Mass., by the highest paid, skilled shoemakers, under the direction and supervision of experienced men, all working with an honest determination to make the best shoes for the price that money can buy.

Ask your shoe dealer for W. L. Douglas shoes. If he cannot supply you with the kind you want, take no other make. Write for interesting booklet explaining how to get shoes of the highest standard of quality for the price, by return mail, postage free.

LOOK FOR W. L. Douglas name and the retail price stamped on the bottom.

W. L. Douglas President of W. L. Douglas Shoe Co., Brockton, Mass.

Juvenile Logic.
It was at a private entertainment and a lady had just risen from the piano.
"Would you like to be able to sing and play as I do, dear?"
"No, ma'am," was the unexpected reply.
"And why not?" asked the lady.
"Cause," explained the small observer, "I wouldn't like to have people say such horrid things about me."—Indianapolis Star.

At One Gulp.
Doctor—Well, Patrick, how are you feeling today?
Pat—Oh, doctor, I feel worse than ever.
Doctor—What! Didn't you take the pills I gave you?
Pat—Of course, but I'm not sure if the lid has come off the box yet!—Philadelphia Public Ledger.

Always on Duty.
"I hear you want a chaperon for your daughter."
"Yes. Are you a musician?"
"Why should your daughter's chaperon be a musician?"
"So that you can accompany her on the piano."—Louisville Courier-Journal.

Neutral Answer.
High—There's Fred Scads over there. He made \$1,000,000 in the street last year.
Low—Honestly?
High—I don't know, but he made it.—The Lamb.

Pensions for Re-married Widows.
The re-married widows (if now a widow) of Civil War Union soldiers, sailors and marines may now secure pension on the service of the first (Civil War) husband. Fee fixed by law and contingent upon success. Over 35 years experience. Taber & Whitman Co., Washington, D. C.

The Dark Horse.
Anzac officer—That's a pretty sad looking crotch you've got there, Foran.
Cornstalk trooper—Well, 'e ain't much to look at, sir, but 'e throws a dandy shadder when it's real hot!—London Opinion.

Pimples, boils, carbuncles, dry up and disappear with Doctor Pierce's Golden Medical Discovery. In tablets or liquid.

Only Partly to Blame.
Mistress—Really, Mary, you might at least see that the plates are clean.
New girl—Well, mum, I owns up to the thumb mark, but the died egg was on there afore I came.—Boston Transcript.

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