TANKAGE AS A HOG FEED SUPPLEMENT.

the Ontario Agricultural College conin gains during the first three weeks ducted an arms of the consequent load of dairying.

Miss Anderson came from Sweden dollars a month, and throughout last with their brother Lazarus. ducted an experiment to determine the for the skim milk lot.

tankage was reduced to 8 per cent.— uniform as before mentioned. the proportion fed from that time on. The following table is a synopsis of The above mentioned factor in con- the experiment:

Tankage vs. Skim Milk as a S	Supplemental	Feed for Hom
No. of Lot	No. 1	No. 2
Supplement used	Tankage	
No. of pigs	3	Skim Milk
Length of feeding period	148 days	-
Average initial weight of pigs	40.6 lbs.	152 days 41.6 lbs.
Average final weight of pigs	183.3 lbs.	201.0 lbs.
Average total gains per pig	142.7 lbs.	155.4 lbs.
Average daily gain per pig	.96 lbs.	1.05 lbs.
Total grain fed per lot	1,478 lbs.	
Total supplement fed per lot,	1,410 108.	1,478 lbs.
skim milk or tankage	121.5 lbs.	0744 Ib.
Total grain fed per hog per	121.0 108.	2744 lbs.
day	9.98 lbs.	9.72 lbs.
Total supplement fed per hog	3.36 IDS.	9.72 108.
per day, skim milk or		
tankage	.82 lbs.	18.05 lbs.
Total grain fed per 100 lbs.	348 lbs.	309 lbs.
gain	040 108.	309 IDS.
Cost of grain fed per 100 lbs.	\$ 5.57	\$4.94
gain	Ψ5.51	\$4.74
Total supplement fed per 100	28 lbs.	574 lbs.
lbs. gain, tankage or skim	20 103.	014 108.
milk		
Cost of supplement fed per	\$0.70	\$1.72
100 lbs. gain, tankage or	******	¥2.12
skim milk		
Cost of 100 lbs. gain in weight	\$6.27	\$6.66
Value of gains made at \$11.50		40.00
per cwt 4	28 lb., \$49.27	478 lb., \$54.97
Cost of gain made	\$26.71	\$31.91
Profits on gains over cost of		7
feed	\$22.56	\$23.06
Cost of P	eed Fed.	V -9
Oats She per bush.		ur \$40 per ton
Rawley Conner bush	TOR DOR 100	or sen ber con

Middlings ...\$28 per ton A study of the table will reveal the over cost of feed would be increased fact that the cost of production was accordingly. not as high in the case of the tankage If one chooses to consider cost of fed lot as with the skim milk fed lot, production only, the table would indifeed per 100 lbs. gain. On the other per hundredweight tankage would be hand, the quantity of grain required worth \$77.84 per ton, at 25 cents per per 100 lbs. gain in the skim milk hundredweight, \$57,14, and at 20 fed lot was not so large, which may cents per hundredweight \$36.43 per be explained by the fact that they ton. were receiving, according to analysis, All factors considered in this parfive pounds more digestible protein in ticular test, there is a decided indicathe supplement fed per 100 lbs. gain tion that where skim milk is not availthan were the tankage fed lot or, in able throughout the year in a more terms of dollars and cents, the 39 or less constant quantity that tankage pounds less of grain per 100 pounds ranks very high as a substitute feed gain with a value of 63 cents lowers for skim milk to balance a ration for the cost of the supplement for the the growing hog in Canadian pork elim milk lot to \$1.09 as compared production. with 70 cents for the tankage fel lot. It is also evident from several However, the value of the extra 50 years' work with tankage that care pounds in weight of the skim milk fed should be taken in feeding. It does lot more than counterbalances the innot require 15 per cent. tankage to out it is quite time to begin making will not need much extra light, but home missions until the collection

Barley 60c per bush.

where it is available at 25 cents per than corn. Feeders also should be hundredweight cost of production careful in starting pigs on tankage to would be reduced to \$6.37, and at 20 make the change gradually. These \$6.27 for the tankage fed lot, and as *Henry and Morrison's "Feeds and a natural sequence profit on gains Feeding."

approximately equal weight were to those of the skim milk lot (some was nil. She had spent her entire efforts, sufficient to keep her and her Tabernacles, in the third year of his the Lord Christ was one of the first to those of the skim milk lot (some was nil. She had spent her entire efforts, sufficient to keep her and her ministrate the christ was one of the first to those of the skim milk lot (some was nil. She had spent her entire efforts, sufficient to keep her and her ministrate the christ was one of the first to those of the skim milk lot (some was nil. She had spent her entire efforts, sufficient to keep her and her ministrate the christ was one of the first to those of the skim milk lot (some was nil. She had spent her entire efforts, sufficient to keep her and her ministrate the christ was one of the first to those of the skim milk lot (some was nil. She had spent her entire efforts, sufficient to keep her and her ministrate the christ was one of the skim milk lot (some was nil. She had spent her entire efforts, sufficient to keep her and her ministrate the christ was one of the skim milk lot (some was nil. She had spent her entire efforts, sufficient to keep her and her ministrate the christ was one of the skim milk lot (some was nil. She had spent her entire efforts). taken from one litter and divided into weeks being equal) with the result two pens for the test. The grain fed that for the entire test the skim milk life in a small city, but possessed an mother in comfort and free from any ministry. A certain village; Bethany. Lord's feet, and heard his word." The two pens for the test. The grain fed that for the entire test the skim milk inherent love for animals which had sort of financial worry. Yet this is two pens for the test. The grain fed that for the entire test the skim milk was the same, both as to nature and quantity. However, the skim milk lot required three days more in which to gain does not tell the whole story, The tankage used for the test con-slightly more even and uniform pen tained upon analysis, 59.7 per cent. than did the others. That it is posprotein. At the commencement, tank- sible to balance a ration for growing age constituted 10 per cent. of the pigs by the addition of tankage to ration for the tankage-fed lot. It was home grown grains was clearly deobserved that the pigs were not eating monstrated since the tankage lot not their food with a relish nor were they only made persistent and economic cleaning up a quantity which pigs of gains once they got started but were their age should do, consequently the quite firmly fleshed as well as being

a Supplemental Feed for Hogs.			
	Supplemental reed for Hogs.		
• • •	No. 1		
•••	Tankage	Skim Milk	
• • •	3	3	
-	148 days	152 days	
igs	40.6 lbs.	41.6 lbs.	
igs	183.3 lbs.	201.0 lbs.	
pig	142.7 lbs.	155.4 lbs.	
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50			
42	28 lb., \$49.27	478 lb., \$54.97	
••	\$26.71	\$31.91	
of			
••	\$22.56	\$23.06	
f P	ed Fed. 4	*	
Red Dog flour \$40 per ton			
Tankage\$50 per ton			
	Chim will-	go por con	

due to the lower cost of supplemental cate that with skim milk at 30 cents

Skim milk ...30c per cwt.

Where skim milk is available at a been found that from 8 to 10 per lower price its superiorit would be cent. is sufficient in a ration complete places of yellow paper, might read as follows:

| Tour guests will wait to be read was love that made itself known. | was love that made itself known. | first, but after they have consumed | Vs. 6-9. Let her alone . . . a good | uncounted ears of corn, rolls, baked | work. Jesus comes to Mary's defence, |

develop rapidly and crow at an early develop rapidly and crow at an early All the green feed we can raise for If your club or church needs money, we'll be right pleased when you recite. Stern ordeal of death and crucifixion. If anyone hesitates more than three A memorial of her. What the disciples

It pays to breed from rapidly spring incubation. feathering birds as it saves brooder fuel in the spring. I find that chicks can stand quite a little cold when they are about feathered out. The slow eathering members of a flock are

the same as in winter. A row of Swiss of the same are decorated to be appet the ground for sitting, but if you have chard on well fertilized soil will pro- like to buy a some you are doubtful about you'd.

Just before the party breaks up it Martha's excellences. duce an abundance of large succulent plump, healthy, smooth chicken, but best provide some camp chairs. If you might be well to have a bit of lung Did she fail to get a due sense of Leaves. It takes only a minute to not one that is rolling in lumps of fat. turn it in to a money-making affair, exercise. Announce a Running High proportion? Was it that the work of gather a bushel of this green feed and Sprinkle clothes with warm water; you may need to train some of your Squeat. Mark off a seven-foot disproviding bodily comfort for her it will help in stimulating egg pro- they iron sooner and smoother.

and cheaper than sprouted oats. Fine chopped mangels will be a fine source all realize that it's an honest-to-good- (Don't hesitate, but now begin) chicks in the brooder houses next warn them. You will want every guest Or, it might be:

all the marks of vigor. Such birds health and vigor are just as essential regular midsummer money-making minutes by the clock, demand a for-proclaimed a fault would be her glory will help in producing early-maturing to hens as concentrated rations to affair. You could advertise the event feit and make him redeem it with a for all time.

The bulky with big black and yellow posters more difficult stunt. By the time all type of pullets that produce fall and green feed helps to prevent digestive worded just as the invitation is, but the stunts have been given, the whole disorders and anables the feel to an substituting your club name and add.

APPLICATION.

Hospitality is a virtue that is comdisorders and enables the flock to pro- substituting your club name and addcrowd will be ready for some active mended both in the Old Testament duce more hatchable eggs for early ing a note about the cost of the exercise. You might start off with a and the New, and there are many ex-

Sell Old Hens as They Are.

Old hens of the heavy breeds are near at hand at which to stage the casily chilled and stuffed and make it necessary to keep the blooder fires spoing for a long time.

If the hens are in yards or on a dried-un range they need green food.

Old hens of the neavy preeds are near at hand at which to stage the party. Pick a spot that is rather rocky, so you will not have to carry your stones far for the pit; of course, you some old-time games and dances. Clapping and whistling make a splenthal who received Jesus into her house. Hospitality is a gracious form of unably most of your guests will prefer and de Coverley or Farmer in the Dell.

Often they become too fat to be appet.

Weeding and thinning the mangels Why imprison rosy-cheeked boys

A Successful Day W

and the extensive use of the the name of Miss Mary Anderson she lived she joined it immediately, should be added to those of the sev- and two of her cows were speedily eral valorous women who have, un-placed on the honor roll. Careful reaided, achieved success on the expanse cord of individual production is mainfunction with the factor that skim of Western Canada. Farming a half tained and the foundation laid of a milk is a great deal closer approach in section of Saskatchewan land alone, very successful and prosperous dairy week brings us to the village of Beth-Did she worry? Did she fail of the During the winter of 1922-23 the palatability to the milk of the sow Miss Anderson has proved how a wegestablishment. Department of Animal Husbandry at no doubt accounts for a greater con- man can make a successful pursuit. During the winter of 1920-21 her Mount of Olives, not far from Jeru- remonstrance indicates that she was

also to plant an area of his farm to declared to be operating farms in sunflowers and corn for silo. Presum commenced parations had just been commenced for this better farming when the father died, and the girl was left gardeners and 104 ranchers and stock for the sum of the including the grain crop and the care In the movement amongst women and Mary. of the dairy cattle.

in 1912 with her mother to join her winter seventy-one per month. To- I. MARY CHOOSES THE RETTER PART,

charge, cared for them herself and ada must be considered in the main undertook the work of milking.

She naturally came to make a study of dairying in its various phases and entry of women into the pursuit on rapidly became convinced that better things could be accomplished with to be encountered cases of women many was easer to hear all and legus.

Received seems a cold as communion with God, as the desire word. Word. Moffat translates it "welcomed."

Vs. 39, 40. Mary . . . heard his word. Mary's sitting at his feet was not the seeking of a position of ease. Much had happened since last they met, and have was easer to hear all and legus. things could be accomplished with to be encountered cases of women Mary was eager to hear all, and Jesus finer-bred cattle and with superior making undoubted successes against had much to say that he could say feed. She induced her father to purgreat odds all over the country. At only to a loving listener. Martha was verses of the twelfth chapter of John, chase some grade Holstein cows and the 1911 census, 15,841 women were cumbered about much serving; busied

the dairy cattle.

The girl determined to continue the ized the post-war period there is no gentle tones. Careful and troubled hand for his burying. The love that operation of the farm herself, staking doubt but that the figures of the 1921 about many things. Jesus recognizes, instinctively impelled to the act taught her chance of prosperity on the little census will show that a substantial first of all, that Martha is really hard- a greater wisdom than she knew.

At this season it pays to inspect confine all the brooder hens. If found But houses covered with black roofing had sought the priceless gifts that the first night they can usually be paper must have considerable circula
Jesus had to bestow.

spiritual was always to him the prime the first night they can usually be paper must have considerable circula
Jesus had to bestow. broken up in about three days. If they tion of air or the hens are devitalized. II. MARY DOES THE BEAUTIFUL THING, waste time setting in the hot hen house Plenty of shade on the range can be they injure the eggs laid by the other supplied with fruit trees, corn, suncondition is delayed.

ment of broady hens is the most pro- Kirby. fitable. Starving and frightening them is not good management. They need

leaving the hen to go thirsty the re- F. L. mainder of the day. Metal brood coops are regular bake ovens when

Waterproofing a Tent.

tent we were to use had served our genuine, pure anointing oil.

It is cruel to keep a mother hen in sugar of lead and alum. After thoritself, so that, instead of using a few a brood coop with black roofing paper oughly mixing them, I dissolved them precious drops of the odorous oil, she on top if the coop is without shade in about one gallon of tepid water. In might lavish the whole on Jesus. On during the heat of the day. These this solution, the tent was soaked for his head. In the ancient world, pagan small brood coops become very hot about an hour and then hung up to and Jewish alike, it was a custom to and too often the hens are neglected dry. This process will make a tent refresh guests in such a way. John or given drinking water in small dish- thoroughly waterproof, mildew-proof, adds that the house was filled with the es that are promptly tipped over, and even to a certain extent fireproof.

ground gets aphid better than shoot- while John makes Judas the spokes-It seems that the moult can be de- ing from the top of the spray tank, man, and adds that Judas said this, layed with many hens if they are New York scientists say.

A Corn-Roast Supper Party

That Can be Turned Into a Money-Making Social. BY MARGARET M. SCOTT.

creased cost of production giving an balance a ration composed of barley your plans for your corn roast, especially since a substitute when plate is passed round for foreign missions. Mary alone saw that the suincreased profit of 50 cents over cost and oats. Pigs do not eat it readily cially if you indulge your longing to daylight fades. if the proportion is too large. It has ask every one of your friends. Your Corn-Roast Supper

Where? On Potato Patch Hill

Mr. and Mrs. B. T. Brennell Bring your fingers and wear old clothes.

to display his very best appetite. Your talent gives us much delight, All the green feed we can raise for If your club or church needs money, We'll be right pleased when you recite. fulness." She had helped him for his

plank tables.

potatoes, wieners, pickles, and cups of against the disciples, as against hot coffee, and, maybe, watermelon as Martha. His first defence is that it dessert, they will need a bit of exer- was a "comely," "beautiful" act, inascents per hundredweight to \$6.08 per precautions taken, tankage should Wednesday evening, Aug. 15, 6 p.m. more strenuous than working their second defence is its timeliness. In is handed a raymed request such as: love for the Master while he yet lived r. s. v. p. Misery loves company, they say;

If you aren't sure that the guests We'd like to hear you tell to-day

boys as waiters, and supply rough tance, explain that the one making the guest crowded out the more gracious boys as waiters, and supply rough tance, explain that the one making the spiritual attentions of a hostess? It would seem that in her care to prowhatever you do, make the pit the will be acclaimed victorious, and let vide an elaborate menu, she had not

The Sunday School Lesson

AUGUST 12.

been revealed quite by accident, and the was formed in the district where Martha and Mary, Luke 10: 38-42; John 11: 1 to 12: 8: Mark 14: 3-9. Golden Text - Mary hath chosen the good part, which shall not be taken away from her. Luke 10: 42.

seven cows brought her in about fifty salem. Here lived Martha and Mary too anxious and troubled.

naturally adopted them as her own Though farming in Western Can-sister, and the head of the house. Recharge, cared for them herself and ada must be considered in the main ceived him. Received seems a cold

her chance of prosperity on the little census will show that a substantial herd of seven grade Holsteins. Each increment has been added to the list business springs from loving hospital- of character. There are differences Broody Hens Need Care. given a cool ventilated hen house and is needful. Mary has chosen that ship. A symmetrical, harmonious plenty of shade on the range. The good part. Jesus had more to give to character is to be desired. Here Christ open front house with the door open this home than this home had to give praises the spirit of devotion, and the the nest every night at sundown and during the day is usually cool enough. to him. And Mary, in her soul-hunger, spiritual was always to him the prim-

MARK 14: 3-9. V. 3. Being in Bethany. This beautihens, and also become reduced in flesh flowers or an evergreen hedge. Colony ful incident takes place in the last and vigor so their return to laying houses raised from the ground will days of Jesus' ministry. The plot of furnish a few square feet of cool the priests and scribes was gathering Experiments prove that good treat—earth where young birds can dust. round him, and the shadow of the cross had fallen across his way. House of Simon the leper; who had been a leper and had been healed by Jesus. beavy laying. A broody coop with a slatted bottom will break up hens slatted bettom will break up hens slatted bottom will break up hens slatted bottom will break up hens slatted bettom will be slatted be slatted bettom will be slatted be slatted bettom will be slatted bettom will be slatted bettom will be slatted bettom will to a nest on the ground. The slatted seasons, and we decided something cident stress the costliness of the cint broody coop can be suspended in the must be done to it if it were to see cool shade of a tree if the poultry me through another trip ment. John says that there was a Sam Sheep made the music pound of it. Brake the box. Mary (To everyone's surprise) I purchased one pound each of broke the narrow neck of the flask

did not simply break the seal, but The stilts were all of oak wood, Vs. 4, 5. Some that had indignation. They were astonished at the costliness

and lavishness of the act. Matthew To spray with a long hose from the says that the disciples were indignant, not because he cared for the poor, but because he was a thief. If Mary had given this as a gift to the poor, he, as treasurer of the disciple band, might have enriched himself. The disciples The audience was tickled; misunderstood Mary's gift, as Martha had misunderstood her sitting at the foot of Jesus. The disciples say "Why this waste?" as Martha said, in effect, "Why this idleness?" To the poor When your sweet corn has tasseled mony. If you have a full moon, you Some people are never mindful of Sing high, sing low, Your guests will want to be fed was love that made itself known.

to be helped by it. Done what she could. The third defence is its perfectness. Mary had done all she could bring the butter. of succulent green feed for the baby ness meal they are being bidden to, Of the worst scrape you ever were in. brutality of his foes, but she can show him the love of a friend. To the burying. The fourth defence is its "help-

Whether it's to make money or just footed a bright-colored bag of new story of Abraham and the Angel for fun, there is nothing like a little potatoes. There are many new quirks (Gen. 18: 1-8), and the beautiful pafor fun, there is nothing like a little potatoes. There are many new quirks thetic account of the great woman of shunem who constrained the prophet Probably you have a grove or hillton time race to make it more interesting. Elisha "to eat bread" (2 Kings 4:8);

Weeding and thinning the mangels. Why imprison rosy-cheeked boys whatever you do, make the pit the win of account to the pit the win of accou

LESSON SETTING—Our lesson this her capable mind so well fitted her. any, on the eastern slope of the duty of happiness? Our Lord's gentle

If mysticism is a passion for intimacy with God, "that strange, mysterious life behind the brain that cries feeding value of tankage as a supplemental food for growing hogs as compared with skim milk. Six pigs of their food their gains were quite close

Tabernacles, in the skim milk lot.

LUKE 10: 38-42.

However, from the time when the tankage lot became accustomed to district. Her knowledge of farm life income through the girl's unaided way to Jerusalem for the Feast of the Lord Christ was one of the first tankage. spent in spiritual fellowship. Prayer,

> one feels that both the supper and practical nature misjudges both Jesus Christ saw in it more than grateful recognition of his miracle of com-

> ity. Martha's fault is in failing to of temperament, and this makes for see that Mary, in her own way, is rethe interest of human relationships.



BY NANCY BYRD TURNER. And Pucker, stout of heart, And Wag and Wig and Fatty Pig. (To everyone's surprise): An apple was the prize.

Sing loud, sing long, And then a little more! The pigs and lambs all hopped so high They made their muscles sore!

Pucker Pig was poky, Fatty had a fall; Wig was most ungraceful, And Wag was worst of all. But Pat and Pete were splendid: They finished in high feather. With squeals and cries they grabbed the prize And gobbled it together.

They cheered with such good will That almost, if you listened, You'd hear them cheering still.

They couldn't sleep that night! -Youth's Companion.

There are two ways to get thin to music: exercising to its rhythm and attempting to play an accordion.

For years, when making butter from only a cow or two, instead of second defence is its timeliness. Jo- using a churn, I skim my cream careminds at first, so start them off with seph and Nicodemus show love for fully, being sure to get no milk in, and several times a day stir it thoroughly with an egg spoon, and the next day five minutes' stirring will



CANADA FOUNDRIES & FORGINGS JAMES SMART PLANT

MAY WE SEND YOU PARTICULARS?

cleansi hands,

Driving "I can't enless I an Marion, "at moments

permit the that do ha sometimes things are s a loving to know it Miss Clem that the Le Beaven in 1 e should divided it i eustom, th token of ag ly passed b ear to sea Abraham

ing that he the symbol between t · voice say "Human since Abra But if we did, faithfu dovenant a "It seem Marion.

"Yes, bu

*ultures s

Abraham wultures. dreary tin stand and vultures o part of the the most the most u God passi: But be sur many earn his voice o Know of Marion as

Order. Th In Foult coast of E don, stran with suspi has meat

Ancient territor Africa, ar very old c lost for ce