Saturday, July 10, 1915]

## Harvesting the Corn Crop-Why We Should Not Pull Fodder Article No. 27 on "Diversification and Independence in 1915!" By TAIT BUTLER

This being the case, it is plain that near the coast. any method of harvesting which wastes the feeding value of the stover

is not efficient nor satisfactory.

ARVESTING the corn crop is The objections to cutting and cur- gathered, it may be well to state that value contained in the entire plant; more of the leaves have turned yelthat there is more nutrients in the low, medium-sized shocks properly stover-stalks, leaves and shucks- made and one band tred sufficiently than in the ear. But the grain or ear tight and high enough to just include is more palatable and more digestible all the tassels corn will cure satisfacthan the dry stover, hence, it is per- torily in the shocks anywhere in the haps more nearly correct to estimate. South. This is no longer an opinion, the feeding value of the stover as but a fact, proved by hundreds having about 40 per cent of the entire plant. done it, even in the damper sections

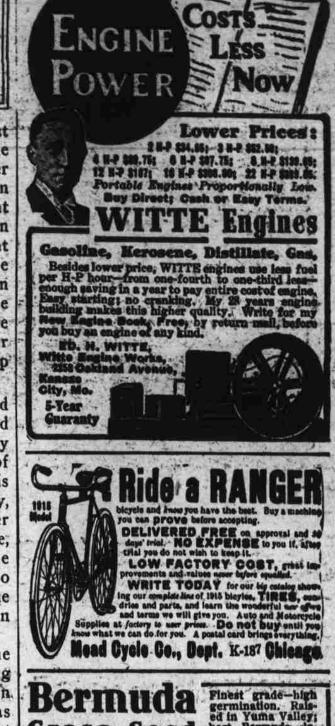
### **Pulling Fodder**

Under most conditions, both grain IN THE South, and as far as we and rough forage are desired from I-know, nowhere else, a method of the corn crop. If grain is not re- harvesting which saves merely the quired the method of harvesting the ears and the leaves is still too comcrop which secures the largest pro- mon, although practiced much less portion of the full feeding value of than formerly. By this method the the plant is to put the entire plant in feeding value of the stalks is wasted; a silo. By this method there is less except where the tops of the stalks loss of feeding value than by any oth- are cut and saved with the pulled er. The cost of harvesting is little if leaves, as is sometimes done. That any greater than by other methods . corn leaves, pulled green and well which preserve the entire plant; the cured; make good rough forage cancrop is stored with the greatest econ- not be denied; but the cost is large omy of space; is preserved in the in proportion to the feed consumed; best form for feeding and in the most a large part of the feeding value of convenient way for ready use. ... the stover is lost, and owing to the But as stated, some grain is usually fact that the leaves are usually pulldesired from the corn crop. In fact, ed when green, the weight of grain the grain contains a human food val- secured is more or less decreased. Takings up these objections in the any farm animal can produce from it, order stated, many claim that the cost and for this reason, if for no other, of pulling fodder and housing it is at least a part of the grain should be about equal to its value. Others are quite certain that more feed can be produced with the same expenditure of labor, in growing cowpeas, sorghum, soy beans or other forage WHEN the crop is harvested chiefly crops. To say the least the labor cost of saving fodder is too large for the amount of feed secured. feeding value of the stover, which we shock, remove the ears and then cut. cured in the shock and then the ears have stated is 40 per cent of the en-: the stalks and put them in the silo. tire plant, is also a serious objection. In this way the grain is obtained as

one thing which may be done ing the crop in shocks, which is most about 10 per cent of the feeding value In many different ways and still frequently urged, is that in our moist. of the stover is in the shucks, 30 per be done right. The method of har- climate it does not cure properly, cent in the leaves and 60 per cent in be done high should be used is large- That our climate offers no serious ob- the stalks. Estimating 40 per cent in vesting the the objects sought jection to this method of here the stalks. ly determined by the objects sought. jection to this method of harvesting of the feeding value of the plant in Of course, corn is grown for food the corn crop has been conclusively the stover, we then have 4 per cent for man or farm livestock and conse- proved by hundreds doing it success- of the feeding value of the entire quently the ideal method of harvest- fully year after year, in all parts of plant in the shucks, 12 per cent in quently the one which secures the larg- the South. Failures are not due to the leaves, and 24 per cent in the est food value from the crop pro- the climate or our larger growth of stalks. In other words, when the duced. The chemist tells us that the stalks, but to lack of skill in shock- stalks are wasted about one-quarter ear contains less than half the food ing. If the corn is cut when half or of the entire feeding value of the crop is wasted.

> The entire crop can be harvested by cutting, curing in the shock and husking and shredding by machinery at a cost of from \$3 to \$4 per ton of stover secured. If we deduct from this the cost of gathering the ears only, the cost for securing the stover is far below its feeding value; and so long as we buy hay from the North it is little short of stupidity to waste 40 per cent of the feeding value of our corn crop, as is done when only the ears are gathered.

The decrease in the weight of the ears or grain, caused by removing the leaves, or leaves and tops, when they are green, or before the corn has matured, will vary with the stage at which fodder pulling and topping is done. Experiments indicate that the loss of grain varies from almost nothing, when fodder is pulled late, to from 10 to 20 per cent when the leaves and tops are taken from green or immature plants. A loss of from two to five bushels of corn, by weight, per acre, due to pulling the green leaves, is not unusual with corn yielding 20 to 30 bushels per acre.



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ue six or seven times greater than harvested as such.

#### The Best Method

for the grain or ears, which is true as to much the larger portion of the corn crop, there are several methods in use. The entire plant is cut and removed and shucked by hand or maor fed whole. If our statement that the stover contains 40 per cent of the the ears and the leaves. feeding value of the whole plant, or that 60 pounds of stover is equal in feeding value to 40, pounds of ears is correct, it follows that this is the best method of harvesting that portion of the corn crop not put in the silo.

In the Corn Belt, of the North much of the corn is harvested by removing the ears from the standing stalks and then grazing the stalk fields. In the South, the habit of pulling the leaves, and often cutting the tops of the stalks also, is still largely followed. One objection to removing the ears and grazing the stalk fields is that a large part of the feeding value of the stover is lost. Not only is there a loss of feeding value from the weathering of the stover, but much of it is not eaten when in this condition. Another objection is that the tramping of the land when wet probably does as much damage as the feed secured is worth, and still further, the "corn stalk" disease occasionally develops among stock grazing the stalk fields. Moreover, cutting and curing the corn in shocks permits an early removal of the crop from the land and is favorable to the early seeding of fall crops.

This Year's Crop.

No Excuse for Not Harvesting the Stover

ting there

**TN** SOME sections, where hay is abundant and cheap, there may be some question as to the economy of harvesting the stover; but in the South, where roughage or hay is generally scarce and high-priced, there is little doubt but that it pays to save the entire crop. It is not a question as to whether corn stover is as good as some other feeds, or whether some other roughage might have been produced at less cost, but simply, is the forage secured in the stover worth the added cost of harvesting the crop. If the extra cost of harvesting the crop in such manner as will save the entire plant is less than the value of the stover, then the stover should be saved. To cut and cure the corn in the shock will cost little more than to gather the ears and pull and gather the leaves, and the extra amount of forage received is worth much more than the mingham, Ala, August 18-19. difference in the cost.

If the corn stover is shredded or cut up, by running through a feed cutter, it is, pound for pound, equal to or superior to cottonseed hulls, which sell for from \$5 to \$10 a ton. To show the value of the stalks, which are wasted when fodder is pulled and when only the ears are

#### Making Silage of Dry Stover

T, therefore, seems certain that the waning habit of fodder-pulling should cease entirely, because of the high labor cost for the fodder obtained, the waste of forage by failure to save the stalks, and the decreased yield of grain.

A method of harvesting which has grown in popularity in recent years The waste of a large part of the is to cut and cure the corn in the chinery and the stover shredded, cut to any method of harvesting the crop such and if the corn is not cut until which saves only the ears or only reasonably well matured, say 10 days or two weeks later than the stage at which fodder is usually pulled, the grain is as heavy and the yield as great as when the ears are allowed to dry out on the standing stalks in the field. The dry stover does not make as palatable or as nutritive silage as when the whole plant is put in the silo, at the proper stage of maturity, but the stover is more palatable and probably also more digestible than when fed dry. In making silage from dry stover a large amount of water must be used and extra care taken to tramp or pack it well in the silo. Such silage, with cottonseed meal, makes a cheap feed for wintering cattle.

**Coming Farmers' Meetings** Secretaries are requested to forward us dates of any important Farmers' Meetings Virginia State Farmers' Institute, Fred-

ericksburg, Va., Sept. 7-8. National Farmers' Union, Omaha, Neb. Sept. 7-9. National Farmers' Congress, Sept. 28-

Oct. 1. Southern Cattlemen's Association, Bir-

North Carolina Farmers' Convention, West Raleigh, August 24-26.

Virginia State Farmers' Institute, Fredericksburg, Va., Sept. 7-8.

North Carolina Good Roads Association, Asheville, N. C., July 14, 15, and 16.

Alabama Farmers' Short Course, Auburn, Ala., July 31-August 6.

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